



# Vidyasagar University

Midnapore, West Bengal

721102



## 3.4.1 : Supporting Documents



Inclusion of research ethics in the research methodology course



Animal Ethics committees work



Plagiarism Committee & Regulation



Research Advisory Committee Report

Vidyasagar University



Midnapore - 721102, W.B.

Centre for Adivasi Studies and Museum

**The Syllabus for**

**Ph. D. Coursework**

**In**

Adivasi Studies

**(w.e.f. Session-2019-2021)**

# Ph. D. Coursework in ADIVASI STUDIES

## **PROGRAMME OUTCOME**

The present academic programme has been designed with a social commitment towards a better understanding of the Adivasis and engaging this academic endeavour for amelioration of the condition of this section of population. We know that Adivasis christened as Scheduled Tribe (ST) by the Constitution of India share 8.6 percent of the population of the country as per 2011 census. A substantial portion of this people is lagging behind others in various socio-economic indicators. A comprehensive study of the Adivasi issues therefore would lead us to the fulfilment of Constitutional and statutory objectives of justice and equity. Envisioned this as guiding principle, the Ph.D. Programme in Adivasi Studies would have the following outcome:

- I. A better understanding of the Adivasis from different perspectives and related issues.
- II. To know the Adivasis in historical background.
- III. To get an idea of the pluri-cultural nature of the Indian Nation.
- IV. To enable the students/ scholars to study Adivasis with the appropriate methodological and theoretical approaches.
- V. To be able to think about appropriate ways to suggest remedies of the problems encountered by the Adivasis, particularly with regards to economy, education, health and nutrition.
- VI. To document the rich cultural heritage of the country as represented by the Adivasis.
- VII. To foster a better cross-cultural sensitivity and humanitarian values as well as move towards greater inclusion and hearing of unheard voices.
- VIII. The programme would also contribute to the rights based strategies for the tribal people.

**The Course Structure and Division of Marks: Ph.D. Coursework ( Adivasi Studies )**

Course/ Paper	Paper Name	Full Marks  (Written + Internal Assessment [IA])
<b>ADS 111</b>	<b>Conceptualizing and Contextualizing Tribe</b>	50  ( Written -40, IA-10)
<b>ADS 112</b>	<b>Tribe in Historical Perspectives</b>	( Written -40, IA-10)50  ( Written -40, IA-10)
<b>ADS 113</b>	<b>Tribe and Material Culture</b>	50  ( Written -40, IA-10)
<b>ADS 114</b>	<b>Research Methodology</b>	50  ( Written -40, IA-10)



VIDYASAGAR UNIVERSITY  
CENTRE FOR ADIVASI STUDIES AND MUSEUM

Ph.D. Coursework in Adivasi Studies

**Course Code - ADS 111: Conceptualizing and Contextualizing Tribe**

**Course Outcome:**

This course is designed to give the following outcome for the students :

- (i) It gives a conceptual clarification about Adivasis and other related terms;
  - (ii) The features of the Adivasis will be known.
  - (iii) The debates over defining Adivasi, Tribe etc. will be familiarised.
- Concept of Tribe, Ethnic Groups, Subaltern, Dalits, Indigenous people, Adivasi, debates over defining the tribe
  - Tribe and Caste in India contexts, Tribe- caste and Tribe-Peasant Continuum, Folk and Little Communities – Redfield's View
  - Theoretical issues in tribal studies- Evolutionary, Formalist and Constructivist approaches. Epistemology of tribal knowledge system. Re-invention of cognitive categories.
  - Modernism, Post-modernism, Post-colonialism, De-colonization, Globalization and tribe.

**References:**

*The Scheduled Tribes-* K.S. Singh

*Emerging Tribal Image-* S.L. Doshi

*Tribal Situation in India* – K.S.Singh

*Key Concepts in Social and Cultural Anthropology-* Nigel Rapport & Joanna Overing

*Changing Tribal Society in India: Issues & Challenges-* Edited by Pradip K.

Bhowmick, Prabhat K. Singh & M.P. Rajak

*Prasanga Adivasi* – S. Bandyopadhyay

*Decolonizing Methodologies: Research and Indigenous Peoples.* – S T Smith

*Tribal Identities* – Ed. K. K. Chakraborty

**Course Code - ADS 112: Tribe in Historical Perspectives**

**Course outcome**

This course will lend the student with the knowledge about –

- i) How the tribes were present in different historical times.

- ii) How the Adivasis are historically constructed.
- iii) The contribution of the Adivasis, in Indian National Movement.
- iv) Nature of intervention in tribal inhabited areas and their response.

- Positing the tribe in Ancient, medieval and modern India.
- The tribe and the colonialism in America, Africa , Australia and other Asian countries
- Tribe and the British Raj – Codification, Census and Survey
- Criminal tribes – saga of stigmatisation and marginalization.
- Administration of Tribes – administrative mechanism, forest policy , land alienation, customary law, Acts and Rules

#### **References:**

*Tribal History of North-East India-* Edited by H. Sudhir

*Tribes Under Stigma-* Malli Gandhi & V. Lalitha

*Adivasis and the Raj-* Sanjukta Das Gupta

*A Nomad Called Thief: Reflections on Adivasi Silence-* G.N. Devy

*Europe and the People without History* – E.Wolf

### **Course Code - ADS 113: Tribe and Material Culture**

#### **Course outcome**

- i. This course enables students to get a fair idea of the physical living condition of the tribal people including the knowledge about tribal economy, habitation, dress and ornaments.
- ii. The course has a special component to impart the students with an idea of museum in general and ethnographic museum in particular.
- iii. The course is also designed to contribute towards the preservation of tangible cultural heritage of the tribal people.

- Economies of the tribes, Livelihood, impact of urbanization and Industrialization, Globalization.
- Aspects of material culture- House type, indigenous technology, dress and ornaments, food, ethnic fashion
- Issues of conservation and tangible heritage of the tribes- museum and neo-museum, concept of tribal and Ethnographic museum, basic components of museum and ethnographic museum, Conservation and preservation, display and documentation. Audio-visual documentation, ethnographic film.

**References:**

*Markets and Indigenous Peoples in Asia*- Oxford  
*Agricultural Development in Tribal Areas*- G. Kavitha  
*Tribal Economy in India* – A K Danda  
*Globalisation and Tribal Economy* – C.J. Prakash  
*Tribal Economy at Crossroads* – Ed. S.N. Chaudhary  
*Impact of Globalisation on Tribals* – M. Aerthayil  
*Attributes of Culture: Reflection of Cultural*  
*Itineraries from a Multi-Cultural Nation* – A. Sarkar, et.al.  
*Museum Management* – S. Bhattacharya  
*Shilpobastu Sanrakshan* – S. Bhattacharya

**Course Code - ADS 114: Research Methodology****Course outcome**

- i. This course will equip students to apply appropriate method for the collection of primary data from the field.
  - ii. It will also help to collect archival data.
  - iii. The course is also designed to analyse the data by employing some the current methods including content , narrative and discourse analyses. \
  - iv. The student will be able to do the documentation as well. The course will help students to get familiar with reference styles and editing of report.
- Research methodology – What is research; Types of Research, Research design. Data Archive; Collection of data (Techniques and Methods – Observation, interview, Case Study, Schedule, Questionnaire, Life History), Fieldwork, Ethnography.
  - Narrative Analysis, Discourse Analysis, Content Analysis.
  - Report Writing, Copy Editing, Proof Reading, Coding.
  - Use of Photographs – Audio-Visual Documentation
  - Craft of Research – Writing, Presentation of Paper/Report
  - Bibliography and Reference Style.
  - Basic statistics (Graphs & Charts, Central Tendency, Correlation, Regression, Multivariate Analysis, t-Test, & Chi-Square Test); ANOVA; Excel; SPSS.

**References:**

*Fieldwork Training in Social Work*- I.S. Subhedar & E.A. Ramaswamy  
*The Fieldworker and the Field* - M.N. Srinivas & A.M. Shah

*Research Methodology*- R. Ahuja

*Methods & Issues in Social Research*- J.A. Black & D.J. Champion

*Research Methods* – P. Stokes and T. Wall

*Research Methodologies: Methods and Techniques* – C.R. Kothari

# Syllabus for Course Work in Ph.D. Programme in Anthropology



Revised in March 2014

Vidyasagar University  
Midnapore 721102, West Bengal

## Course Work for Ph.D. Programme in Anthropology

Total Marks: 200

### Division of marks

Course Code	MARKS
Course I	Theoretical: 40 Practical: 10 Total: 50
Course II	Theoretical: 40 Practical: 10 Total: 50
Course III(ANT)	Theoretical: 50 Total: 50
Course IV(ANT)	Theoretical: 50 Total: 50
TOTAL	200

### Structure of the Curriculum for Ph.D. Course work in Anthropology

Course Code	Course Name	Marks			Exam Time
		Theor.	Assign.	Total	
Course I	Research Methodology	40	10	50	2 hours
Course II	Computer Application and Statistical Methods	40	10	50	2 hours
Course III(ANT)	Anthropology	50		50	2 hours
Course IV(ANT)	Special Topics in Anthropology	50		50	2 hours

## Course Contents

**Course Code: Course I**

**Course Name: Research Methodology**

**Marks: Theoretical – 40 + Assignment (Practical) – 10 = 50**

### **Group A: Theoretical – 40 marks**

- 1.1 Research: definition, importance, meaning and characteristics. Steps in research.
- 1.2 Research problem: identification, selection and formulation.
- 1.3 Sampling: definition, theory, types, techniques and steps. Sample size, advantages and limitations of sampling.
- 1.4 Data: definition, sources and types. Data collection methods. Limitations and cautions. Analysis of data.
- 1.5 Review of literature and Bibliography.
- 1.6 Research report: types, contents, styles and steps in drafting. Editing the final draft and Thesis writing.

### **Group B: Assignment writing on any one (Practical) – 10 marks**

- (a) Review of articles
- (b) Research proposal
- (c) Sample design
- (d) Data analysis

**Course Code: Course II**

**Course Name: Computer Application and Statistical Methods**

**Marks: Theoretical – 40 + Assignment – 10 = 50**

### **Group A: Theoretical – 20 marks**

- 2.1 Operating system: latest version of WINDOWS, UNIX.
- 2.2 Internet: data uploading and downloading, e-mail and e-journal.
- 2.3 Database management System.
- 2.4 Office management: MS-Word, MS-Excel, MS-Power Point, and Latex.
- 2.5 Software Packages: SPSS, R-Statistics, MATHLAB, EMBOS, etc.



**Group B: Theoretical – 20 marks**

- 2.6 Normal probability distribution.
- 2.7 Test for goodness of fit for a proposed distribution.
- 2.8 Correlation coefficient: simple linear, multiple linear, and partial.
- 2.9 Regression; simple, multiple and stepwise.
- 2.10 Experimental design. Analysis of variance: its model, one or two way ANOVA. Multiple comparison tests.

**Group C: Assignment writing on any one (Practical) – 10 marks**

- (a) Power point presentation on a research topic.
- (b) Analysis of data using MS-Excel.
- (c) Analysis of data on given statistical methods.

**Course Code: Course III (ANT)**

**Course Name: Anthropology**

**Marks: 50**

**Group A: Theoretical – 20 marks**

- 3.1 Concept of gene, genome and gene pool. Genetic structure of human population; Hardy-Weinberg law; causes for changes in gene frequencies: mutation, hybridization, genetic drift, and selection. Genetic polymorphism.
- 3.2 Biological consequences of mating systems: consanguinity, inbreeding and outbreeding. Inbreeding coefficient (F-ratio); heterozygosity, homozygosity and genetic load.
- 3.3 Application of Biological Anthropology: Forensic Anthropology, genetic counseling, karyotyping and banding; Human Genome Project.

**Group B: Theoretical – 20 marks**

- 3.4 Concept of culture. Classical concepts. Poststructuralist and postmodernist views of culture.
- 3.5 Fieldwork tradition in Anthropology. Emic and etic approaches in Anthropology.
- 3.6 Sources of anthropological data; techniques of data collection; report writing; dissertation and scientific papers.

**Group C: Theoretical – 10 marks**

- 3.7 Quaternary period: chronology, importance in the study of human biological evolution, and major environmental episodes.
- 3.8 Prehistoric tools: typology and technology. Palaeolithic, Mesolithic and Neolithic culture complexes with special reference to Europe, Africa and India. Salient features of civilization.
- 3.9 Ethnoarchaeology: meaning, scope and usefulness in the reconstruction of cultural evolution.

**Course Code: Course IV (ANT)**

**Course Name: Special Topics in Anthropology**

**Marks: 50**

- 4.1 Human nutrition and nutritional status. Genetic and environmental factors affecting nutritional status.
- 4.2 Human growth. Measurement of growth: cross-sectional, longitudinal and mixed longitudinal.
- 4.3 Demography of human populations. Anthropological genetics. Health, disease and epidemiology of human populations. Women's reproductive health, family planning and child health.
- 4.4 Rural development. Community forest management. Indigenous art and craft. Ethnic migration and movement. Development and displacement. Social unrest and insurgency violence.
- 4.5 Social gerontology. Problems of the aged population in India: rural and urban dimensions.

**VIDYASAGAR UNIVERSITY**  
**Syllabus for Ph.D Course Work**  
**BENGALI**

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**Paper -1/BNG – 101**

**Full Marks – 50, Credit Marks: 03**

গবেষণা পদ্ধতি ও প্রকরণ

১। গবেষণা পদ্ধতি	২৫
২। গবেষণা প্রকরণ	২৫

**Paper – II/ BNG -102**

**Full Marks: 50, Credit Marks: 03**

গবেষণা নিবন্ধ

১। গ্রন্থ ও পত্রপত্রিকা পর্যালোচনা	২৫
২। গবেষণামূলক নিবন্ধ রচনা	২৫

**Paper – III/ BNG – 103**

**Full Marks: 50, Credit Marks: 03**

বাংলা সাহিত্যচর্চা

১। পাশ্চাত্য সাহিত্যচর্চার কারণ ও প্রয়োজনীয়তা	১০
২। ইতিহাস ও সাহিত্য	১০
৩। দর্শন মনস্তত্ত্ব ও সাহিত্য	১০
৪। সাহিত্য সৃষ্টিতে আর্থ-সামাজিক ও রাজনৈতিক প্রেক্ষিত	১০
৫। লোকসংস্কৃতি ও সাহিত্যচর্চার প্রয়োজনীয়তা	১০

**Paper – IV/ BNG – 104**

**Full Marks – 50, Credit Marks: 03**

সাহিত্যতত্ত্ব

১। অনুবাদতত্ত্ব ও অনুবাদের সমস্যা	১০
২। প্রাচ্য সাহিত্যতত্ত্ব: ধ্বনি, রস	১০
৩। প্রয়োগতত্ত্ব (Pragmatics), আখ্যানতত্ত্ব (Naratology)	১০
৪। শৈলীবিজ্ঞান	১০
৫। Post Structuralism, Post Modernism	১০

# Syllabus for Ph.D. Course Work

## Department of Botany & Forestry



## Vidyasagar University

2016

### Course Structure

Course	Subject	Full Marks	Unit	Distribution of Marks	Credit Hours
Course I:	Research Methodology	50	I	Written: 40 (Exam Hours: 2)	16
			II	Assignment writing on any one (Practical): 10 Marks	
Course II:	Computer Application and Statistical Methods	50	I	Written: 20	16
			II	Written: 20 (I+II, Exam Hours: 2)	
			III	Assignment writing on any one (Practical): 10 marks	
Course III:	Advanced Botany	50	-	Written (Exam Hours: 2)	20
Course IV:	Special Topics in Botany	50	-	Assignment to be Submitted* [*A Literature Review or data generated on the related research topic be submitted by each scholar duly signed and recommended by the Supervisor]	-

# **Course I: Research Methodology**

**Credit Hours: 16**

**Marks: 50**

**[Written: 40 (Exam Hours: 2) +  
One Assignment: 10]**

## **Unit I [Marks 40]**

- Research: Definition, importance, meaning and characteristics.
- Steps in Research. Research problem: identification, selection and formulation.
- Data: definition, types, sources, data collection methods.
- Review of literature and Bibliography.
- Research report: types, contents, styles and steps in drafting.
- Editing the final draft, way of writing papers and Thesis writing.
- Significance of Impact factor, citation index, science citation index, IST, SCOPUS etc.

## **Unit II: Assignment writing on any one (Practical) – 10 marks**

- Review of articles
- Research proposal
- Sample design
- Data analysis

## **Course II: Computer Application and Statistical Methods**

**Credit Hours: 16**

**Marks: 50 [Written: 40 (Exam Hours: 2) +  
One Assignment: 10]**

### **Unit: I [Marks: 20]**

- Operating system such as DOS, WINDOWS, UNIX.
- Internet: data uploading and downloading, e-mail and e-journal.
- Office management: MS-Word, MS-Excel, MS-Power Point.
- Programming: C, C++.
- Software Packages: MATLAB, SPSS.

### **Unit: II [Marks: 20]**

- Normal probability distribution.
- Test for goodness of fit for a proposed distribution.
- Correlation coefficient: simple linear, multiple linear, and partial.
- Regression; simple, multiple and stepwise.
- Experimental design. Analysis of variance: its model, one or two way ANOVA.  
Multiple comparison tests.

### **Unit III: Assignment writing on any one (Practical) – 10 marks**

- Power point presentation on a research topic.
- Analysis of data using MS-Excel.
- Analysis of data on given statistical methods.

## **Course III: Advanced Botany**

**Credit Hours: 20**

**Marks: 50 [Written (Exam Hours: 2)]**

1. Definition, aspects and prospects of Molecular plant systematic
2. cp DNA (rbcL); mt DNA; n DNA (ITS)
3. Molecular Methods (AFLP, RAPD); DNA Bar-coding;
4. Wetlands; their significance; Ramsar site.
5. Invasive species, climate change and biodiversity. Global negotiation on climate change. Environmental Diary: Chipko Movement (1970-80), Ramsar Convention (1971), Montreal Protocol (1987), Kyoto Protocol (1997).
6. Electron Microscopy (SEM and TEM); Chromatography (including HPLC, GC and TLC); Methods of sterilization and mode of action. Plant-microbe relationship.
7. Mode of action of amylases and proteases; fermentation technology; fermentor and its operation.
8. Biological interactions: Positive and negative interactions, commensalism, mutualism and co-operation.
9. Role of mycorrhiza in ecosystem, plantation and bioremediation: Benefits to plants, food for animals, value to people.
10. Types of plant fossils according to their mode of preservation; Preparation of fossil slides through peeling technique.
11. Spore-pollen symmetry, polarity, apertural pattern, exine stratification and sculpturing; Applied aspects of palynology; Melissopalynology.
12. Introduction: Aim and branches of Bioinformatics, Application of Bioinformatics, Bioinformatics Resources: NCBI, EBI.
13. Sequence databases: Nucleic acid sequence databases: GenBank; Protein sequence databases: Uniprot-KB: SWISS-PROT; Structure Databases: PDB.



14. Basic concepts of sequence alignment: Measurement of sequence similarity; Similarity and homology. Pairwise sequence alignment; Homology Modeling.
15. Base number, Haploid number and polyploidy number of chromosome and their significance
16. Karyotype (symmetric & asymmetric including bimodal); RFLP, AFLP, DNA finger printing
17. Gene transfer techniques: Biolistic method/ Gene gun , Ti plasmid structure
18. Plant cell culture: Callus culture, Micropropagation (Principle, outline methods and application).

## **Course IV: Special Topics in Botany**

**Marks: 50**

**Assignment to be submitted**

[A Literature Review or data generated on the related research topic be submitted by each scholar duly signed and recommended by the Supervisor]



বিদ্যাসাগর বিশ্ববিদ্যালয়

# Vidyasagar University

## Department of Chemistry

### Syllabus: Ph.D. Coursework

## Course Structure of the Ph.D. Course work in Chemistry

Course		Subject	Full Marks	Credit Hours
Compulsory Unit	Course I	Research Methodology	50	16
Elective Units	<i>Choose any two (02) of the following courses as Course II and III</i>			
	Course II	1. Frontiers in Organic Chemistry 2. Advanced Photophysics and Computational Chemistry 3. Advanced Inorganic and Bio-inorganic Chemistry	50	16
	Course III	4. Biophysical Chemistry and Surface Chemistry 5. Biological Organic Chemistry and application of advanced techniques to study modes of interaction	50	16
Compulsory Unit	Course IV	<b>Review of Research Work</b> [A Literature Review or data generated on the related research topic be submitted by each scholar duly signed and recommended by the Supervisor]	50	-

## Compulsory Unit

### Course I

(Marks 50)

#### **Research Methodology:**

**Definition of problem:** Necessity of defining problem, Technique involved in defining a problem. Surveying the available literature.

**Techniques involved in solving the problem:** Different methods used to solve a problem.

**Research Design:** Subject of study; Place of study; Reason of such study; Type of data required; Method of data collection; Periods of study; Style of data presentation.

**Developing a research plan:** Research objective; Information required for solving the problem; Each major concept should be defined in operational terms; An overall description of the approach should be given and assumption if considered should be clearly mentioned in research plan; The details of techniques to be adopted.

**Methods of data collection:** Experimental methods.

**Analysis of data:** Various measures of relationship often used in research studies, Correlation coefficients.

## Elective Units

### Course II

(Marks 50)

and

### Course III

(Marks 50)

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**Choose any two (02) of the following courses  
as Course II and Course III**

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# 1: FRONTIERS IN ORGANIC CHEMISTRY

1. Green Chemistry: Principles of Green Chemistry, Examples, Renewables for Sustainability, Green Synthesis, Plant secondary metabolites, Terpenoids: Biogenesis, Biosynthesis, Triterpenoids as Renewable Nano-entities
2. Computational Chemistry: Classical mechanical approach for the determination of structures of organic compounds and its application in synthesis and molecular recognition
3. Self-assembling systems: vesicles, fibers, spheres, tubules, gels; study of their morphologies and properties; applications in, drug delivery, thermochromic materials
4. Seminar lectures by students on a recently published paper in organic chemistry

## *Suggested Reading:*

1. *Molecular Gels: Materials with Self-Assembled Fibrillar Networks*. Weiss, Richard G., Terech, Pierre (Eds.), 2006, Springer
2. *Green Chemistry: Theory and Practice*. Paul T. Anastas, John Charles Warner. Oxford University Press, 1998
3. *Green Chemistry: Principles and Practice*, P. Anastas, N. Eghbali, *Chem. Soc. Rev.* 2010, 301-312.
4. *Molecular Mechanics*, N. L. Allinger, Theoretical and Computational Models for Organic Chemistry Formosinho, S.J., Csizmadia, Imre G., Arnaut, Luis G. (Eds.) pp 125-135; 1991, Springer
5. B.G. Bag, R. Majumdar, Self-assembly of renewable nano-sized triterpenoids, *Chem. Rec.* 2017, 17, 1, 1-34.
6. B. G. Bag, A. C. Barai, S. N. Hasan, S. K. Panja, S. Ghorai, S. Patra, *Pure Appl. Chem S. Patra.*, 2020, 92, 567-577.

## 2: ADVANCED PHOTOPHYSICS AND COMPUTATIONAL CHEMISTRY

Shapes of absorption band and Franck-Condon principle, Emission spectra, Environmental effect on absorption and emission spectra, Excited state dipole moment, Excited state acidity constant, Time resolved emission. Bimolecular collision and the mechanism of fluorescence quenching, Kinetics of collisional quenching: Stern-Volmer equation, concentration dependence of quenching, excimer & exciplex.

Radiative energy transfer: Forster resonant energy transfer (FRET), photoinduced electron transfer.

### Computational Chemistry:

Semi-empirical method: MNDO, AM1, PM3

Ab-initio implementation of Hartree-Fock MO theory, Basis sets, key technical and practical points of HF theory. General performance overview of ab-initio HF theory.

Density Function theory: Theoretical motivation, philosophy, Kohn-Sham self-consistent field methodology. Advantages and disadvantages of DFT compare to MO theory. General performance overview of DFT, case study.

### References:

1. Principles of fluorescence spectroscopy by J. R. Lakowicz; CRC Press
2. Photophysics of Aromatic Molecules by J. B. Birks; Wiley Interscience
3. Essential of computational chemistry by Christopher J. Cramer; Wiley



### 3. ADVANCED INORGANIC AND BIO-INORGANIC CHEMISTRY

#### Application of advanced techniques to study micro and macromolecular interaction

Interaction of complexes with DNA, RNA and Serum proteins (Bovine serum albumin (BSA) and Human serum albumin (HSA), Human haemoglobin and myoglobin etc.) monitored by (a) UV-Vis spectroscopy (b) UV-thermal melting (c) Fluorescence spectroscopy (d) Cyclic voltammetry (e) Circular dichroism spectroscopy (CD) and (f) Isothermal titration calorimetry (ITC).

Interaction between nanoparticle and Serum proteins (Bovine serum albumin (BSA) and Human serum albumin (HSA), Human haemoglobin and myoglobin etc.) monitored by (a) UV-Vis spectroscopy; (b) UV-thermal melting (c) Fluorescence spectroscopy and 3D fluorescence spectroscopy; (d) DLS and Zeta potential measurement study; (e) IR-Spectroscopy; (f) Circular dichroism spectroscopy (CD) and (f) Isothermal titration calorimetry (ITC).

#### Advanced Organometallic Chemistry

Representative organometallic reactions with a special reference to the reaction mechanism.

Stereochemical non-rigidity and fluxional behaviour of organometallic compounds.

Metallocene:  $\eta^5$  - Cyclopentadienyl metal complexes,  $\eta^6$  - Arene metal complexes,

Catalysis by organometallic compounds: Wilkinson's catalyst, Tolman's catalytic loops; Synthesis gas, Water gas shift reaction, Synthesis of methanol, Hydroformylation (oxo process), Hydrogenation of unsaturated compounds, Monsanto acetic acid process, Wacker process, Synthetic gasoline, Fischer-Tropsch process and Mobil process; Polymerisation, Oligomerisation and metathesis reactions of alkenes and alkynes; Ziegler-Natta catalysis.

#### Magnetic Properties of Materials

Ferromagnetism, Ferrimagnetism, Antiferromagnetism, Magnetic Susceptibility vs. Temperature, Metamagnet, Superparamagnet, Paramagnetism in Metal Complexes, Hysteresis Curves, Antiferromagnetism in Metal Oxides, Super-exchange, Magnetic

Ordering in Rock Salt Oxides, Magnetic interaction in polynuclear metal complexes, MOFs as magnetic materials.

*Suggested Readings:*

1. In Drug-DNA Interaction Protocols, Second Edition, Yang Liu, W. David Wilson (auth.), Keith R. Fox (eds.) Springer New York.
2. Circular Dichroism and the Conformational Analysis of Biomolecules Jen Tsi Yang (auth.), Gerald D. Fasman (eds.) Springer US.
3. Analytical Applications of Circular Dichroism, Volume 14 1st Edition, N. Purdie H.G. Brittain, Elsevier Science.
4. B. D. Gupta and A. J. Elias 2010, Basic Organometallic Chemistry: Concepts, Syntheses and Applications, Universities Press, Hyderabad.
5. J. P. Collman, L.S. Hegedus, J.R. Norton and Richard G. Finke, 1987, Principles and Applications of Organotransition Metal Chemistry, 1st Edition, University Science Books, Mill Valley, California.
6. Gerard Jaouen (Ed.), 2005, Bioorganometallics, Wiley-VCH.
7. Elements in Magnetochemistry, R. L. Dutta and A. Shyamal, Affiliated East-West Press.
8. Solid State Physics, S. O. Pillai, New Age International Publishers.

## 4: BIOPHYSICAL CHEMISTRY AND SURFACE CHEMISTRY

Thermodynamics in Biochemistry (Fundamentals and Applications); Biopolymers (Proteins, Enzymes, DNA, Carbohydrates); Biomembranes (Structure and Function); Active transport and passive transport, Multiple equilibria, Specific examples of multiple equilibria, Transport processes; General features of transport processes; Optical systems for the study of transport processes. Self-organizing systems: Their interactions, Physico-chemical Properties, Different Characterization techniques, Applications. Preparation, Characterization and Application of nanoparticles Surface and Biophysical Techniques: Calorimetry, CD, SEM, TEM, EDAX, DLS, Gel Electrophoresis, Radioactivity, XPS.

### *Suggested Readings:*

1. Thermodynamics and an Introduction to Thermodynamics, H. B. Callen
2. Principles of Physical Biochemistry, K. E. van Holde, C. Johnson, P. S. Ho
3. Physics and Chemistry of Interfaces, Hans-Jürgen Butt, Karlheinz Graf, Michael Kappl
4. Physical Chemistry of Surfaces, Arthur W. Adamson, Alice P. Gast
5. Physical Chemistry of Macromolecules, C. Tanford
6. Polymer Chemistry, P. J. Flory
7. Nanocrystals: Synthesis, Properties and Applications, C.N.R. Rao, P. John Thomas, G. U. Kulkarni

## 5: BIOLOGICAL ORGANIC CHEMISTRY AND APPLICATION OF ADVANCED TECHNIQUES TO STUDY MODES OF INTERACTION

Nucleic Acids: DNA; Structural features of various forms of DNA; RNA; Various types of RNA and their structural properties and function.

Alkaloid-Nucleic Acid Interactions and its Implications for Drug Design: Isoquinoline alkaloids and their medicinal properties; Binding of small molecules to nucleic acids; Interaction of berberine, palmatine, coralyne, jatrorrhizine and sanguinarine with various forms of natural and synthetic DNAs and RNAs; Binding of derivatives of the alkaloids with nucleic acids; The mode, mechanism and thermodynamics of the alkaloid-nucleic acid binding interaction monitored by (a) UV-Vis spectroscopy; (b) UV-thermal melting (c) Fluorescence spectroscopy; (d) Cyclic voltammetry ; (e) Circular dichroism spectroscopy (CD) and (f) Isothermal titration calorimetry (ITC).

### *Suggested Readings:*

1. In Drug-DNA Interaction Protocols, Second Edition, Yang Liu, W. David Wilson (auth.), Keith R. Fox (eds.) Springer New York
2. Circular Dichroism and the Conformational Analysis of Biomolecules Jen Tsi Yang (auth.), Gerald D. Fasman (eds.) Springer US
3. Analytical Applications of Circular Dichroism, Volume 14 1st Edition, N. Purdie H.G. Brittain, Elsevier Science
4. Biophysical, Chemical, and Functional Probes of RNA Structure, Interactions and Folding: Part A Andrew L. Feig, in Methods in Enzymology. Elsevier
5. Data Processing Handbook for Complex Biological Data Gauri Misra, Academic Press
6. Nucleic acids structure and recognition, by Stephen Neidle, Oxford University Press, 2002.
7. Principles of Nucleic Acid Structure by Stephen Neidle, 1st Edition, Academic Press.

## Compulsory Unit

### Course IV

(Marks 50)

#### **Review of Research Work**

#### ***Assignment to be submitted***

[A Literature Review or data generated on the related research topic be submitted by each scholar duly signed and recommended by the Supervisor]





**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721102

**The Syllabus for Ph. D. Course Work in Commerce**

[w. e. f. 2022-23 session]

**Structure of Ph.D. Course Work in Commerce)**

Paper Code	Paper Name	Marks	Credit
COM 111	Research Methodology and Research Publication Ethics (RPE) and Computer Application	50	5
COM 112	Research Methodology -II	50	5
COM 113	Research Issues in Business Studies	50	5
COM 114	Emerging Issues in Core Areas of Research	50	5

**Paper Code: COM 111**

**Paper Name: Research Methodology and Research Publication Ethics (RPE) and Computer Application**

**SECTION-A**

**Basic concepts of Research Methodology**

**20 Marks**

- Definition of Research Methodology- Distinction between Method and Methodology- Different kinds of Research
- Finding Library Resources: Computer Literacy; Use of e-books; e-Journal & JSTOR
- Style of Referencing- sources, quoting sources, abbreviation
- Bibliography: MLA and APA Formats
- Punctuation, Proof Reading and Dia-critical marking
- Writing a Term Paper
- Reviewing Articles and Books

h) Writing a good Research Proposal

## References

- Richard Veit, Christopher Gould and John Clifford – Writing, Reading and Research (2 nd Ed.).
- Norman Blaikie – Approaches to Social Enquiry.
- C. R. Kothari & Gaurav Garg – Research Methodology – Methods and Techniques (3 rd Ed.)
- Kate L. Turabian – A Manual for Writers of Research papers, Theses and Dissertation.
- Jonathan Anderson, Barry H. Durston, Millicent Poole – Theses and Assignment

## **SECTION B**

### **Research and Publication Ethics**

**20 Marks**

#### **RPE 01: PHILOSOPHY AND ETHICS (3 hrs.)**

1. Introduction to philosophy: definition, nature and scope, concept, branches
2. Ethics: definition, moral philosophy, nature of moral judgements and reactions, different branches of ethics, research ethics.
3. Responsibilities of researchers to fellow researchers, respondents, the public and the academic community.

#### **• RPE 02: SCIENTIFIC CONDUCT (5 hrs.)**

1. Ethics with respect to science and research
2. Intellectual honesty and research integrity
3. Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)
4. Redundant publications: duplicate and overlapping publications, salami slicing
5. Selective reporting and misrepresentation of data
6. Privacy, autonomy, confidentiality and anonymity
7. The funding and sponsorship of research.

#### **• RPE 03: PUBLICATION ETHICS (7 hrs.)**

1. Publication ethics: definition, introduction and importance
2. Best practices / standards setting initiatives and guidelines: COPE (Committee of Publication Ethics), WAME (World Association of Medical Editors), etc.
3. Conflicts of interest
4. Publication misconduct: definition, concept, problems that lead to unethical behaviour and vice versa, types
5. Violation of publication ethics, authorship and contributor ship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals



8. The role of the researchers.

## **PRACTICE**

1. **RPE 04: OPEN ACCESS PUBLISHING (4 hrs.)**
2. Open access publications and initiatives
3. SHERPA (Securing a Hybrid Environment for Research Preservation and Access) /RoMEO (Rights Metadata for Open Archiving) online resource to check publisher copyright & self-archiving policies
4. Software tool to identify predatory publications developed by SPPU (Savitribai Phule Pune University)
5. Journal finder/ journal suggestion tools viz. JANE, Elsevier Journal Finder, SpringerJournal Suggester etc.

## **RPE 05: PUBLICATION MISCONDUCT (4hrs.)**

### **A. Group Discussions (2 hrs.)**

1. Subject specific ethical issues, FFP, authorship
2. Conflicts of interest
3. Complaints and appeals: examples and fraud from India and abroad

### **B. Software tools (2 hrs.)**

Use of plagiarism software like Turnitin, Urkund and other open-source software tools

## **RPE 06: DATABASES AND RESEARCH METRICS (7hrs.)**

### **A. Databases (4 hrs.)**

1. Indexing databases
2. Citation databases: Web of Science, Scopus, etc.

### **B. Research Metrics (3 hrs.)**

1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, CiteScore
2. Metrics: h-index, g index, i10 index, altmetrics

## **References**

- Bird, A. (2006). *Philosophy of Science*. Routledge.
- MacIntyre, Alasdair (1967) *A Short History of Ethics*. London.
- P. Chaddah, (2018) *Ethics in Competitive Research: Do not get scooped; do not get plagiarized*, ISBN:978-9387480865
- National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). *On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition*. National Academies Press.
- Resnik, D. B. (2011). What is ethics in research & why is it important. *National Institute of Environmental Health Sciences*, 1-10. Retrieved from

<https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm> Beall, J. (2012). Predatory publishers are corrupting open access. *Nature*, 489(7415), 179-179. <https://doi.org/10.1038/489179a>

- Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), ISBN: 978-81-939482-1-7. [http://www.insaindia.res.in/pdf/Ethics\\_Book.pdf](http://www.insaindia.res.in/pdf/Ethics_Book.pdf)
- Oliver Paul: *The Students Guide to Research Ethics*, Open University Press, McGraw Hill
- H. Martyn and Anne Trainanou: *Ethics in Qualitative Research: Controversies and Contexts*, Sage, New Delhi.

### **SECTION-C**

#### **Basic knowledge of Computer Application**

**Marks 10**

1. MS Word
2. Power Point Presentation
3. Spread Sheet / Excel Sheet
4. Internet

### **COM 112**

#### **RESEARCH METHODOLOGY -II**

**Full marks: 50**

**(Theory = 25 marks)**

#### **1. Sampling and sampling distribution:**

Concept of Census Survey and Sampling Survey, Methods and Techniques of Sampling, Importance of sampling in Social Science Research, Essential features of Sampling, Methods of Probability Sampling- Simple Random Sampling, Stratified Sampling, Systematic Sampling, Multi-stage Sampling etc., Methods of Non-probability Sampling- Judgment Sampling, Convenience Sampling, Quota Sampling etc., Merits and Limitations of Sampling, Sampling and Non-sampling Errors; Sampling Distribution, Standard Error, Different Distributions used in Sampling Theory.

**2. Theory of Estimation:** Concept of Statistical Inference, Theory of Estimation, Point Estimation and Interval Estimation Various Methods of Point Estimation- Moment Method, Ordinary Least Square (OLS) Method, Maximum Likelihood Estimation (MLE) Method, Two-stage Least Square, Three-stage Least Square and Generalized Least Square Method, Estimation of Parameters of Binomial Distribution, Poisson Distribution and Normal Distribution applying Maximum Likelihood Estimation Method, Properties of Maximum Likelihood Estimator.

**3. Testing of Hypothesis:** Concept of Testing of Hypothesis, Parametric test and Non-Parametric test, Level of Significance, Critical Region, Type-I and Type-II Error, Degree of

Freedom, Power of the test, Test of Population Mean and Proportion by Large Sample, Test of Population Mean by Small Sample, Test of Mean by Paired Sample, Variance test for Single Population, Joint Population, Analysis of Variation (ANOVA)

4. **Some popular Non-parametric tests:** Chi-square ( $\chi^2$ ) test, Fisher's Exact test, Run test for testing normality of data, Wilcoxon Signed Rank (W) test, Mann-Whitney (U) test, Kolmogorov- Smirnov test, Krushkal- Wallis (H) test

5. **Primary Data:** Collection of primary data, various methods and techniques for collection of primary data, questionnaire for field survey, preparation of questionnaire, features of good questionnaire, Internet based online survey

6. **Secondary Data:** Collection of secondary data from different government sources, Collection of corporate data from Annual Reports of the Companies, Collection of Data from Various Databases, Secondary data screening

**(Internal assessment: 5 marks)**

**(Practical = 25 marks)**

7. **Computer Applications for Research:** Word processing, Data processing, Graphical processing, Use of MS Excel for Data Analysis

8. **Methods and Techniques of Using Statistical Software:** Data entry, Compilation of data, Data Splitting, Correlation analysis, Regression Analysis, Time series analysis, various parametric and non-parametric tests using statistical software like IBM SPSS, EViews, Stata etc.

**(Viva-Voce: 5 marks)**

### **Suggested Readings:**

1. Kumar, R. (2018). *Research Methodology: A Step by Step Guide for Beginners*, Sage Publications Ltd., 5<sup>th</sup> Ed., UK.
2. Taylor, B., Sinha, G. And Ghoshal, T (2006). *Research Methodology: A Guide for Researchers in Management and Social Sciences*, Prentice Hall India Ltd., New Delhi.
3. Panneer selvam, R.(2013). *Research Methodology*, Prentice Hall India Ltd., 2<sup>nd</sup> Ed., New Delhi.
4. Krishnaswamy, K.N., Sivakumar, A. and Mathirajan, M. (2006). *Management Research Methodology: Integration of Principles, Methods and Techniques*, Pearson Education, 1<sup>st</sup> Ed., New Delhi.
5. Srivastava, T. N. and Rego, S. (2017). *Business Research Methodology*, McGraw-Hill Education, USA
6. Andy Field (2019). *Discovering Statistics using IBM SPSS Statistics*, Sage Publications Ltd., 5<sup>th</sup> Ed., UK.
7. Rao, A. S. and Tyagi, D. (2009). *Research Methodology with SPSS*, Shree Niwas Publications

8. Kothari, C. R. (2004): *Research Methodology: Methods and Techniques*, New Age International (P) Ltd., 2<sup>nd</sup> Ed., New Delhi.

**COM 113**  
**Research Issues in Business Studies**  
**Full marks: 50**

1. Relationship between traditional performance measures and value added measures
2. Accounting-based and Market-based risk measures: Interrelationship
3. Researches on Corporate sustainability
4. Research issues in Human resource accounting
5. Agency problems: how do those problems affect decision making in the companies?
6. Financial engineering and Investor response: emergence of hybrid instruments
7. Behavioural finance: Impact of corporate decisions (dividend, bonus shares, right shares, stock split, buy-back, etc. on investor behaviour
8. Household financial decision-making and Financial literacy
9. Financial inclusion: exploring the underlying factors
10. Financial sector reforms and performance of the banking and insurance companies
11. Research studies in stock market
12. Brand loyalty: Exploring factors
13. Research studies on Brand equity and goodwill
14. Impact of advertisements on consumer buying
15. Research studies on organizational conflict
16. Corporate governance
17. Managerial Compensation and Shareholders wealth
18. Debt Finance in Indian Context
19. Women empowerment, bank finance and entrepreneurship
20. Research issues in working capital management
21. Research issues in dividend decisions
22. Research issues in bond market
23. Research issues in Mutual Fund

(Internal assessment = 10 marks)

Note: 10/12 topics out of the above-mentioned topics will be covered for each batch. The teachers who will finally be assigned to teach the paper may select topics as per their choice for a particular batch which may or may not be rotated for the next batch.

**Paper Code: COM-114**

**Paper Name:** Emerging Issues in Core Areas of Research

**Marks: 50**

(Scholars should review literature on any particular topic in the light of their research interests and guidance of their supervisors. Evaluation of this paper will be done by all the internal faculties for 25 marks and also by the supervisor for 25 marks through seminar presentation)



**Vidyasagar University**

**Faculty of Arts**

**Department of Economics**

**Syllabus**

**Ph.D. Course Work (Economics)**

**2016**

**The Course Structure and Division of Marks: Ph.D. Course Work (Economics) 2016**

Course/ Paper	Paper Name	F.M.
Eco-111	Research Methodology in Economics with Computer Applications	50 ( Written -40, IA-10)
Eco -112	Econometric Methods	50 ( Written -40, IA-10)
Eco-113	Applied Econometrics	50 ( Written -40, IA-10)
Eco-114	Literature Review	50

## **Programme Outcome**

Completing Ph.D. Course Work in economics from the Department of Economics, Vidyasagar University, the students are expected to have comprehensive knowledge of modern theories of economics as an academic discipline. They are also expected to be able to analyse economic problems of different countries or regions, to acquire skill for data analysis and data interpretation using statistical methods, to evaluate economic and public policies using appropriate models and also to exchange economic ideas. The programme will help students to pursue research work in the subject or related disciplines. The programme is also expected to improve analytical and argumentative skills of the students that are crucial for winning job in the present day job market.

## Paper Eco-111

### Research Methodology in Economics with Computer Applications

(F.M. 50, Written – 40, IA - 10)

#### Course Outcomes:

This course offers an overview of research methodology including basic concepts employed in quantitative and qualitative research methods. It also Includes computer applications for research. Upon completing this course, each student will be able to: 1. demonstrate knowledge of research processes (reading, evaluating, and developing); 2. perform literature reviews using print and online databases; 3. employ American Psychological Association (APA) formats for citations of print and electronic materials; 4. identify, explain, compare, and prepare the key elements of a research proposal/report; 5. define and develop a possible research interest area using specific research designs; 6. compare and contrast quantitative and qualitative research.

#### Group – A (Marks: 25, Written -20, IA-5)

##### 1. Introduction

- Research meaning and significance
- Characteristics of scientific Research
- Type of research : pure, applied, analytical, exploratory,
- Research process
- An overview of research methodologies in Economics

##### 2. Data : Types, Sources and Sampling methods

- Data types Qualitative and Quantitative; Cross and Time series
- Sources of data: Primary and secondary (Use of Government Reports),
- Designing of Questionnaire, PRA
- Sampling Methods with applications in the Indian context

##### 3. Analysis of data

- Descriptive Statistics with software applications
- Analysis of Variance ( ANOVA): Concepts and Applications using computer software

#### Group B (Marks: 25, Written -20, IA-5)

##### 1. Hypothesis Testing

- Hypothesis testing – parametric and non-parametric
- Data based applications of Hypothesis Testing

##### 2. Report Writing

- Meaning and significance of a Research Report
- Types of Research Report
- Format of a Research Report : Title to Bibliography
- Principles of writing the Research Report : Organization and Style



- Writing the report on the survey conducted

### 3. Computer Applications

- Excel, SPSS, Eviews and Stata
- Internet Applications:

### References:

1. Wilkinson and Bhandarkar, *Methodology and Techniques of Social Research*, Himalaya Publishing House.
2. Kothari R.C., *Research Methodology, Methods and Techniques*, New Age International Publishers, 11nd revised edition, reprint 2008.
3. Cooper D. and Schindler P. *Business Research Methods*, Tata McGraw Hill. Sultan Chand & Sons.
4. Don E. Ehridge, *Research Methodology in Applied Economics : Organizing Planning and Conducting Economics Research*, John Wiley and sons, April 2004.
5. **Deepak Chawla And Neena Sondhi**, *Research Methodology Concepts And Cases*, Vikas Publishing House Pvt. Ltd.-Noida, 2011.
6. Goon, A.M., Gupta, M.K. and Dasgupta, B.(2005): *Fundamentals of Statistics*, The World Press Private Limited.
7. Mathai, A. M. and Rathie, P.N.(1977): *Probability and Statistics*, Macmillan.

## **Paper - Eco-112**

### **Econometric Methods**

(F.M. 50, Written – 40, IA - 10)

#### **Course Outcomes:**

At the end of course student will be able to: learn the basics of time series data and panel data, understand the stationary time series models and advantages of panel data, perform forecasting with time series data, fixed effects, random effects model, LSDV model and dynamic panel also, apply time series techniques to state ARCH and multivariate time series, conduct research on panel data after knowing panel data handling, and opportunities for employability in marketing, finance and other business houses, Principal Component Analysis, and Simultaneous Equation Methods. Students will be able to learn when and how to apply the above econometric methodologies to analyse economic problems.

#### **Group – A (Marks: 25, Written -20, IA-5)**

##### **Multiple Regression Analysis**

Motivation for multiple regression; Estimation and interpretation of OLS; Sampling distributions of the OLS estimators; Testing Hypothesis; Functional form; Goodness of fit.

##### **Time Series Analysis**

Univariate time series; AR, MA, ARMA; Stationarity; Unit roots; Integrated Series; Cointegration and Error Correction; VAR; Granger causality; Impulse response functions; Structural Breaks  
(JD, Chapter 7-8.)

##### **Growth and Volatility**

Different Approaches, Structural Break analysis, Modelling Volatility: ARCH Models and its extension.

#### **Group – B (Marks: 25, Written -20, IA-5)**

##### **Panel Data Methods**

Why panel data is necessary. Problems with panel data: attrition. Pooled OLS, random effects and fixed effects estimators.

(WOO, Chapters 13-14. )

##### **Discrete and Limited Dependent Variable Models**

Discrete choices; Linear probability model; Probits, Logits, Tobits  
(WOO, Chapter 17.)

##### **Factor Analysis and Data Reduction**

Principal Component Analysis

## References

1. Baltagi Panel Data Analysis
2. Wooldridge J. M. Econometric Analysis of Cross Section and Panel Data. The MIT Press, 2002.
3. Cameron, C.A. and Trivedi, P.K. Microeconometrics: methods and applications. Cambridge U.P., 2005. (CT)
4. Cameron, C.A. and Trivedi, P.K. Microeconometrics Using STATA. STATA Press, 2009.
5. Ruud P.A. An Introduction to Classical Econometric Theory. Oxford U.P., 2000.
6. Greene, W.H. Econometric Analysis. 6th Ed. Prentice-Hall, 2008.
7. Morgan, S.L. and Winship, C. Counterfactuals and Causal Inference: Methods and Principles for Social Research. Cambridge U.P., 2007.
8. Kennedy, P. A Guide to Econometrics. The MIT Press, 2003.
9. Jeffrey M. Wooldridge (2016): Introductory Econometrics A Modern Approach (5<sup>th</sup> edition)(Chapters 3. 4 and 6)
10. Enders, W., Applied Econometric Time Series, Third Edition, Wiley.
11. Judge, Hill, Griffiths, Lütkepohl, Lee: Introduction to the Theory and Practice of Econometrics.
12. Johnston, J. and Dinardo, D.: Econometric Methods, Fourth Edition, McGraw-Hill, 2006.

## Internet Resources and Databases

1. Data and other materials for Wooldridge's textbook. [www.msu.edu/~ec/faculty/wooldridge/book2.htm](http://www.msu.edu/~ec/faculty/wooldridge/book2.htm).
2. Data and Computer Programs for Cameron and Trivedi's textbook. [www.econ.ucdavis.edu/faculty/cameron](http://www.econ.ucdavis.edu/faculty/cameron).

## Paper Eco-113 Applied Econometrics

(F.M. 50, Written – 40, IA - 10)

### Course Outcomes:

After taking the course, the students will be equipped with various techniques to handle econometric data and will also have total grapes over applied econometrics. The course will provide sufficient knowledge regarding the econometric applications to households such as demand analysis, estimation of consumption function, family budget study etc. Completing this course will also provide sufficient knowledge over econometric applications to firms, money market, labour economics, investment function etc. Again, this course also contains important aspects in the construction of HDI, evaluating structural breaks, trends in macro econometric model construction and RBI- MSE macro model for the Indian economy.

### Group A (Marks: 25, Written -20, IA-5)

1. Econometric applications to Indian industries:
  - a. Production function estimation: CD, CES, Trans-log.
  - b. Cost function estimation
  - c. Employment function estimation.
  - d. Capacity utilization.
  - e. Growth, Volatility and Productivity
2. Econometric applications to Indian Agriculture:
  - a. Agricultural Production Function
  - b. Uncertainty and Risk
  - c. Technological change in Indian agriculture

### Group B (Marks: 25, Written -20, IA-5)

1. Indian Money and financial markets
  - a. Single equation estimation of money demand function.
  - b. Simultaneous equation models of money demand and money supply.
  - c. Money and inflation.
  - d. Contemporary issues in Indian financial markets
2. Applications to macro-econometric models:
  - a. The trends in macro-econometric model construction.
  - b. RBI-MSE Macro model for the Indian economy.

### References:

1. Michael Intriligator (1980): Econometric Models, Techniques and Application, Prentice Hall, Private India Ltd, New Delhi.
2. K. L. Krishna ed. 1997, Econometric Applications in India, OUP
3. Jeffrey M. Wooldridge (2016): Introductory Econometrics A Modern Approach (5<sup>th</sup> edition)
4. Julia Hebden, Applications of Econometrics
5. M. Desai, Applied Econometrics
6. Kerry Patterson, An Introduction to Applied Econometrics –A Time Series Approach
7. K. L. Krishna ed. 1997, Econometric Applications in India, OUP
8. Robert Chambers (1988): Applied Production Analysis, Cambridge University Press.

## **Paper Eco-114**

(F.M. 50)

### **Course Outcomes:**

After taking the course, the students will be able to review the existing literature of particular domain.

### **Paper Eco-114: Literature Review**

# Ph.D Course Work Syllabus

## on

## Environmental Studies

### (Centre for Environmental Studies)

Semester	Course No	Course Name	Lecture (Hours)	Credit
<b>Ph.D Course Work</b> ( 50 x 4 = 200)	<b>EVS-111</b>	<b>Research Methodology</b>	<b>10</b>	<b>4</b>
	<b>EVS-112</b>	<b>Environmental History</b>	<b>10</b>	<b>4</b>
	<b>EVS-113</b>	<b>Concept and Techniques in Environmental Studies</b>	<b>10</b>	<b>4</b>
	<b>EVS-114</b>	<b>Statistics for Environmental Studies</b>	<b>10</b>	<b>4</b>

## Ph.D Course work

**Credit= 4x 4 = 16**

**FM: 50 X 4 = 200**

### **Course 1: EVS 111: Research Methodology:**

1. Basic concept of research, Objectives, Motivation and Significance of research, Types of Research, Deductive and Inductive Approach
2. Levels of Certainty: Facts, Hypotheses, Theories and Laws, Criteria of good research
3. Research Problem: Identification and Techniques of defining a research problem, significance of literature review
4. Research Design: Research design for Exploratory, Descriptive and Hypothesis-testing research studies.
5. Sampling Design: Steps in Sampling Design, Types of Sampling and their applications in research.
6. Collection of Spatial and Temporal data.
7. Problems encountered by researchers in India
8. Assignment Writing

### **Course 2 : EVS 112: Environmental History**

1. Social, economic, cultural and intellectual histories under the umbrella of global environmental history
2. Studies on themes such as race, ethnicity, class, community, gender, power, knowledge, etc.
3. Forest, deforestation, soil erosion, resistance, politics of environment, subsistence, the animal and insect worlds in tropical forests and hunting
4. Climate, impact of climatic changes on history, demography, natural calamities such as earthquakes, cyclonic storms, hurricanes, tornadoes, floods, rainfall, tsunamis, volcanic eruptions, mudslides and forest fires.
5. Air and Water pollution,
6. History of sound and smell
7. History of public health, epidemics, medicine.
8. Assignment Writing

### **Course 3 : EVS 113: Concept and Techniques in Environmental Studies**

1. Man and Environment & Women-Nature Relationship
2. Research Design under Realism and Structuralism.
3. Economic and Environmental issues related to Tourism and Travel Management.
4. Social Indicators of Development with Special Reference to Health and Education

5. Gender and Development: Regional Dimensions with Special Reference to India
6. Environmental Resources and the Urban Ecology
7. Environmental Toxicology, Health and Safety
8. Assignment Writing

#### **Course 4 : EVS-114: Statistics and Computer Application for Environmental Studies**

1. Basic Statistics, Organization of data - array, frequency, class intervals, histograms, and distribution, Presentation of Data: Tables, Diagrams
2. Grouped data and ungrouped data, Geographical data: discrete and continuous series, scales of measurement, Measures of Central Tendency - mean, median, mode, quartiles, Skewness and Kurtosis
3. Correlation: meaning, scatter diagram, standard deviation, variance, Measures of correlation – Karl Pearson's method (two variables ungrouped data), Spearman's rank correlation methods.
4. Concept of variables, vectors, probability and sampling / sampling design and applications, Hypotheses and their testing.
5. Bivariate correlation and linear regression: problem of estimation and problem of inferences.
6. Spreadsheet Tool: Introduction to spreadsheet application, features and functions, using formulas and functions, Data storing, Features for Statistical data analysis, Generating charts/graph and other features. Tools may be used in Microsoft Excel, Open office or any other available software.
7. Presentation Tool: Introduction to presentation tool, features and functions, Creating presentation, Customizing presentation, showing presentation. Tools may be used in Microsoft Power Point, Open Office or similar tool and Web Search: Introduction to Internet, Use of Internet and WWW, Using search engine like Google, Yahoo etc, Using advanced search techniques.
8. Assignment Writing





Department of Geography  
Vidyasagar University, Medinipur  
West Medinipur 721102

## Syllabus for Ph.D. coursework programme

Department of Geography  
Vidyasagar University

Course Name	Course No	Course Name	Lecture (Hours)
<b>Ph.D. coursework programme</b>	<b>101</b>	<b>Research Methodology</b>	<b>10</b>
	<b>102</b>	<b>Advance Statistics and Geo-spatial Techniques</b>	<b>10</b>
	<b>103</b>	<b>Advance Learning of Earth system Sciences</b>	<b>10</b>
	<b>104</b>	<b>Concept and Techniques in Social Sciences</b>	<b>10</b>

### Course No-101: Research Methodology:

1. Introduction to Research: Types, Objectives and Methods
2. Review of literature and bibliography
3. Research Design
4. Research report, Citation and Referencing
5. Assignment Writing

### Course No-102: Advance Statistics for Geo-spatial Analysis

1. Concept of variables, vectors, probability and sampling / sampling design and applications
2. Hypotheses and their testing.
3. Bivariate correlation and linear regression: problem of estimation and problem of inferences.
4. Principal component analysis.
5. Multiple linear regression: problem of estimation and inferences. Multicollinearity and heteroscedasticity, problem of autocorrelation, Model Selection procedure: information criterion, variable inflation factor.
6. Bivariate nonlinear regression: problem of estimation and inferences, Logistic regression
7. Path modelling, Regression tree
8. Concept of autocorrelation and variogram, techniques and methods of interpolation, role of interpolation for surface modeling.
9. Time series analysis: linear trend analysis, MK Test, Sen's slope estimation
10. Geospatial Techniques: applications of RS & GIS in Geoscience research
11. Instigation and analysis of spatial and non-spatial data using RS & GIS techniques: spatial data generation using various types of aerospace data; merging of image data with ancillary data; real world cases studies link to competency based domains and problem base learning (e.g. Urban, LULC, Geomorphology, Geology etc.)
12. Assignment Writing

### **Course No-103: Advance Learning of Earth system Sciences**

1. Geological time scale, Dating techniques; Fundamental concepts, Geomorphic agents, Drainage patterns, Soils, Classification of Landforms, Image characteristics of major Landforms.
2. Quaternary Geology and applied Geomorphology
3. Remote sensing techniques in quaternary geological and applied geomorphological mapping: Hyperspectral, Thermal, Micro wave – Concept and applications
4. GNSS (viz. GPS, GLONASS, GALILEO and Indian Navigation System) Application in Geological / Geomorphological and Societal survey
5. Concept and application of Geosciences in Natural Hazards and Disaster Management.

### **Course No-104: Concept and Techniques in Social Sciences**

1. Economic and Environmental issues related to Tourism and Travel Management.
2. Research Design under Realism and Structuralism.
3. Social Indicators of Development with Special Reference to Health and Education
4. Gender and Development: Regional Dimensions with Special Reference to India
5. Environmental hazard and mitigation strategies
6. The ecology of cities: Approaches to sustainability and management
7. Human dynamics: social–ecological–technical/built system (SETS) interaction.

**Department of Hindi**  
**VIDYASAGAR UNIVERSITY**  
**Midnapore, West Bengal - 721102**  
**Syllabus Ph.D. Course Work in Hindi**

**Course Structure and Division of Marks**

**पत्र-शोध-प्रविधि**

HIN 111

Full marks : 50

विश्वविद्यालय लिखित परीक्षा

Univ. written Exam. : 40

पुस्तक समीक्षा

Book Review : 10

शोध प्रविधि का महत्व। अनुसंधान का स्वरूप, प्रणालियाँ। शोध की वैज्ञानिक दृष्टि। अनुसंधान और आलोचना। हिंदी अनुसंधान परंपरा और विकास। तथ्यानुसंधान और तथ्य-परीक्षण।

शोध-योजना : विषय-चयन, शोधकार्य का विभाजन (अध्यायीकरण), उपशीर्षक, सामग्री संकलन, सामग्री के स्रोत, सामग्री का उपयोग।

शोध-प्रबंध लेखन, उद्धरण, संदर्भ, साक्ष्य का उपयोग, तर्क निर्माण, विषय-सूची, भूमिका। प्राक्कथन, निष्कर्ष, ग्रंथसूची, सार-संक्षेप। भाषा शैली।

लोक साहित्यानुसंधान, भाषा वैज्ञानिक शोध-प्रविधि, साहित्यिक अनुसंधान की आवश्यकता, साहित्यिक अनुसंधान की समस्याएँ।

साहित्यिक शोध में कंप्यूटर की उपेयागिता। कंप्यूटर का प्रयोग। प्रूफ पठन। पुस्तक समीक्षा।

**साहित्य अध्ययन की विविध दृष्टियाँ**

Full marks : 50

Univ. written Exam. : 40

HIN 112

Internal : 10

साहित्य के समाजशास्त्र का स्वरूप,

समाजशास्त्रीय दृष्टि और साहित्य अध्ययन की परंपराएँ : भारतीय और पाश्चात्य –प्रमुख साहित्यिक समाजशास्त्री। साहित्य की मनोविश्लेषणवादी अध्ययन दृष्टि, मार्क्सवादी दृष्टि, विखंडनवादी दृष्टि। संरचनावादी अध्ययन दृष्टि। तुलनात्मक दृष्टि।

(उपन्यास, कविता व लोकप्रिय साहित्य को अध्ययन का आधार बनाया जाय।)

## साहित्य और विचारधारा

Full marks : 50

Univ. written Exam. : 40

Internal : 10

HIN 113

विचारधारा - स्वरूप – प्राचीन, मध्यकालीन तथा आधुनिक बोध का स्वरूप। साहित्य की अवधारणा पर विचारधारा का प्रभाव, भारतीय नवजागरण की अंतर्धाराएँ, राष्ट्रवाद और विश्वमानवतावाद, राष्ट्रीय स्वाधीता आंदोलन की विचारधाराएँ और साहित्य, जनतान्त्रिक आंदोलन और यथार्थवादी विचारधारा और साहित्यिक संस्थान, आधुनिकतावाद, उत्तर-आधुनिकतावादी विमर्श, दलित विमर्श, स्त्री विमर्श, किसान विमर्श, आदिवासी विमर्श,। साहित्यिक कृतियों की व्याख्या और विचारधारा की समस्या।

## टर्म एवं सेमिनार

Full marks : 50

Written Term : 20

Viva Voce Term : 05

Written Seminar : 20

Viva Voce Semina : 05

HIN 114

(क) टर्म पेपर [अधिकतम 5000 (पाँच हजार) शब्दों में]

(ख) सेमिनार पेपर [अधिकतम 5000 (पाँच हजार) शब्दों में]

टर्म एवं सेमिनार पेपर की मौखिक परीक्षा External Examiner की उपस्थिति में होगी।

**Syllabus for Ph.D. Course Work**  
**Department of Applied Mathematics with Oceanology and**  
**Computer Programming**  
**Vidyasagar University**  
**2014**

**Course I: Research Methodology**

**Credit Hours: 16**

**Marks: 50 [Written: 40 (Exam Hours: 2) + One Assignment: 10]**

Research: Definition, importance, meaning and characteristics. Steps in Research. Research problem: identification, selection and formulation. Data: definition, types, sources, data collection methods. Review of literature and Bibliography. Research report: types, contents, styles and steps in drafting. Editing the final draft, way of writing papers and Thesis writing. Significance of Impact factor, citation index, science citation index, IST, SCOPUS etc.

**Assignment:** Review of articles and Research proposal

**Course II: Computer Application and Statistical Methods**

**Credit Hours: 16**

**Marks: 50 [Written: 40 (Exam Hours: 2) + One Assignment: 10]**

**Unit: I [Marks: 20]**

Operating system such as DOS, WINDOWS, UNIX. Internet: data uploading and downloading, e-mail and e-journal. Office management: MS-Word, MS-Excel, MS-Power Point, and Latex / WINEDIT. Programming: C, C++, Software Packages: MATLAB, MATHEMATICA, MAPLE.

**Unit: II [Marks: 20]**

Probability distribution. Distribution Free Approach, Test for goodness of fit for a proposed distribution. Correlation of coefficient: simple linear, multiple linear, and partial. Regression; simple, multiple and stepwise. Sampling: definition, theory, types, techniques and steps.

**Assignment:**

Power point presentation on a research topic. Analysis of data on given statistical methods.

### **Course III: Current Research Areas**

**Credit Hours: 16**

**Marks: 50 [Written: 50 (Exam Hours: 2)]**

Magneto Fluid Dynamics, Flow in a Porous Medium, Operations Research, Graph Theory, Fuzzy Set Theory, Rough Set Theory, Soft Computing, Mathematical Methods, Optimization Techniques, Orography, Prey – Predator Model, Web let, integral equation, fuzzy integral equation, Numerical Analysis, Classical Mechanics, Lattice Algebra, Fixed point theory etc.

### **Course IV: Specific Research Topic**

**Credit Hours: 16**

**Marks: 50 [A Literature Review on the related research topic be submitted by each scholar to the associated Supervisor and after evaluation supervisor submits the Marks to HOD]**

## **Department of Computer Science**

### **Vidyasagar University**

#### **Syllabus for Ph.D. Coursework in Computer Science**

<b>Course Code</b>	<b>Course Name</b>	<b>Full Marks</b>	<b>Credit</b>	<b>No. of Lectures (in hrs.)</b>
<b>PHDCS-1</b>	<b>RESEARCH METHODOLOGY AND RESEARCH PUBLICATION ETHICS (RPE) AND COMPUTER APPLICATIONS</b>	<b>50 [Written: 40 (Exam Hours: 2) + One Assignment: 10]</b>	<b>4</b>	<b>16</b>
<b>PHDCS-2</b>	<b>DOCUMENT PREPARATION TOOLS AND STATISTICAL METHODS</b>	<b>50 [Written: 40 (Exam Hours: 2) + One Assignment: 10]</b>	<b>4</b>	<b>16</b>
<b>PHDCS-3</b>	<b>REVIEW OF RESEARCH WORK</b>	<b>50</b>	<b>4</b>	<b>-</b>
<b>PHDCS-4</b>	<b>EMERGING ISSUES IN CORE AREAS OF RESEARCH</b>	<b>50 [Written: 40 (Exam Hours: 2) + One Assignment: 10]</b>	<b>4</b>	<b>16</b>

**PHDCS-4: ELECTIVE (One paper is to be chosen as directed by supervisor)**

- A. Image processing and data security
- B. Deep learning
- C. Audio processing
- D. Internet on Things
- E. Natural Language Processing

## Details Syllabus

### **PHDCS-1: RESEARCH METHODOLOGY AND RESEARCH PUBLICATION**

### **ETHICS (RPE) AND COMPUTER APPLICATIONS**

#### **UNIT-I**

**Research Aptitude:** Meaning of Research, Objectives of Research, Motivation in Research, Types of Research, Research Approaches, Research Methods versus Methodology, Research and Scientific Method, Importance of Knowing How Research is done.

**Research Process:** Reviewing the literature, Formulation of research problem, Nature and type of variables, Hypothesis - meaning, types, development of hypothesis and its testing, Meaning & Functions of Research Design

#### **UNIT-II**

**Data Analysis:** Sources, acquisition and interpretation of data, Quantitative and qualitative data, Graphical representation and mapping of data, Sensitivity Analysis with Data Tables, Optimization with EXCEL Solver, Summarizing Data with Histograms and Descriptive Statistics, Pivot Tables, Summarizing Data with database statistical functions, using correlation, Multiple Regression, Using Sampling to Analyze Data

#### **UNIT-III**

**Significance of Report Writing:** Different Steps in writing Report, Layout of the Research Report, Types of Reports, Mechanics of Writing a Research Report, Art of scientific writing- Steps to better writing, flow method, organization of material and style, Drawing figures, graphs, tables, footnotes, references etc. in a research paper

#### **UNIT-IV**

**Publication Ethics:** Introduction, Definition, & Importance; Scientific Research Misconduct; Falsification, Fabrication & Plagiarism/Self-plagiarism, Kinds & Remedies; Intellectual Property; Reasonable & Fair Use; Copyright and related IPR Issues ; Violation of Publication Ethics; Authorship/Co-authorship, Joint research/ Contributorship & Patentable Inventions- Extent of Rights & Claims ; Best Practices/Standards Setting Initiatives and guidelines; COPE, WAME, UGC-CARE list etc.; Publication Misconduct; Concept; Definition & Kinds of Problems & Unethical Behaviour; Identification of Publication Misconduct, Complaints & Appeal Provisions.

**Use of internet in research work :** Use of internet networks in research activities in searching material, paper downloading, submission of papers, relevant websites for



journals and related research work. Introduction to Patent laws etc., process of patenting a research finding, Copy right, Cyber laws.

**References:**

1. Research Methodology Methods and Techniques, Kothari, C. R., Wiley Eastern Ltd.
2. Microsoft Excel Data Analysis and Business Modeling, Wayne L. Winston, Microsoft Press, ISBN: 0735619018
3. Research Methodology: a step-by-step guide for beginners, Kumar, Pearson Education.
4. Practical Research Methods, Dawson, C., UBSPD Pvt. Ltd. 5. Research Methodology, Sharma, N. K., KSK Publishers, New Delhi.

**PHDCS-2: DOCUMENT PREPARATION TOOLS AND STATISTICAL METHODS**

Writing scientific report, project proposal, and thesis. Preparing conference presentation: preparation of slides with tables, pictures, graphs etc. Preparing references and bibliography for any research paper. Checking the similarities of any report and addressing the same. Tool for document writing: Latex.

Collection of data: classification and tabulation, Permutation and Combination, Binomial Series, Polynomial, Frequency distribution, Measures of central tendency: mean, median, and mode, Standard Deviation, Correlation and regression, Interpolation. Probability: Bayes theorem, conditional probability, independence events, random variable. Theoretical distributions: Binomial, Poisson, Normal. Statistical tools for analysis and interpretation of data: Python, MATLAB, Microsoft Excel

**References:**

1. LaTeX Beginner's Guide: Create visually appealing texts, articles, and books for business and science using LaTeX, 2nd Edition Kindle Edition
2. More Math Into LaTeX: A Guide for Documentation and Presentation Paperback – Import, 8 October 2007
3. Statistical Methods (Combined edition volume 1 & 2) Paperback – 1 July 2017
4. Fundamentals of Statistics Paperback – 1 May 2018

**PHDCS-3: REVIEW OF RESEARCH WORK**

Review Work Written to be submitted by each scholar duly signed and recommended by the supervisor.

## **PHDCS-4: EMERGING ISSUES IN CORE AREAS OF RESEARCH**

### **A. Image processing and data security**

#### **Image processing:**

Introduction (Exposure to wide range of imaging applications), Image enhancement in spatial domain (intensity transforms, histogram processing, spatial filtering etc.), Image enhancement by transformation to a different space (fourier transform, wavelet transform etc.), Color Image Processing, Morphological Image Processing, Feature representation and description (point, line, edge, corner, SIFT), Image compression, Some basics on image segmentation and object detection.

#### **Data security:**

An Overview on Security and Data Security, Symmetric Ciphers: Classical Encryption Techniques (Substitution, Substitution). Data Encryption Standard, Advance Encryption Standard. Asymmetric Ciphers: Public Key Cryptography, RSA, Diffie-Hellman Key Exchange, Elgamal Cryptographic system, Elliptic Curve Cryptography, Diffie-Hellman Key Exchange, Data Integrity: Hash Function, Secure Hash Algorithm (SHA-3), Cryptography Data Integrity: Message Authentication Codes, Digital Signature: Elgamal Digital Signature Scheme, Digital Signature: Schnorr Digital Signature Scheme Digital Signature: Elliptic Curve Digital Signature Scheme, Digital Signature: RSA-PSS Digital Signature Scheme, Watermarking Schemes, Data Hiding Schemes, Stenographic Schemes.

#### **References**

1. Digital Image Processing (Gonzalez and Woods, 2nd and 3rd edition),
2. Fundamentals of Digital Image Processing (Anil K. Jain).
3. Cryptography and Network Security, Behrouz A. Forouzan.
4. Cryptography and Network Security Principles and Practices, Fourth, William Stallings

## **B. Deep Learning**

Introduction: Basic concept of Deep Learning, Multi-layer Perceptrons, Backpropagation

Convolutional Neural Networks (CNNs): Basic concept of CNNs; CNN Architectures evolution: AlexNet, ZFNet, VGG, InceptionNets, ResNets, DenseNets; Visualization of Kernels; Backprop-to-image/Deconvolution Methods; Deep Dream, Hallucination, Neural Style Transfer; CAM, Grad-CAM, Grad-CAM++; Recent Methods (IG, Segment-IG, SmoothGrad)

CNNs in different applications: CNNs for Recognition and Verification (Siamese Networks, Triplet Loss, Contrastive Loss, Ranking Loss); CNNs for Detection: Basic concept of Object Detection, R-CNN, Fast R-CNN, Faster R-CNN, YOLO, SSD, RetinaNet; CNNs for Segmentation: FCN, SegNet, U-Net, Mask-RCNN

Recurrent Neural Networks (RNNs): Basic concept of RNNs; CNN + RNN Models for Video Understanding: Spatio-temporal Models, Action/Activity Recognition

Attention Models: Basic concept of Attention Models; Vision and Language: Image Captioning, Visual QA, Visual Dialog; Spatial Transformers; Transformer Networks; Vision Transformer

Deep Generative Models and its applications: Basic concept of Deep Generative Models: GANs, VAEs; Other Generative Models: PixelRNNs, NADE, Normalizing Flows, etc; Image Editing, Inpainting, Superresolution, 3D Object Generation, Security; Variants: CycleGANs, Progressive GANs, StackGANs, Pix2Pix, etc

Recent Trends: Few-shot, One-shot, Zero-shot Learning; Self-supervised Learning; Reinforcement Learning; Other Recent Topics

## **References**

1. Deep Learning From Scratch: Building with Python from First Principles by Seth Weidman published by O'Reilly
2. Deep Learning with Python by Manning Publications
3. Deep Learning with PyTorch by Manning Publications
4. Grokking Deep Learning by Andrew W. Trask published by Manning Publications
5. Deep Learning by Ian Goodfellow, Yoshua Bengio and Aaron Courville published by MIT Press

## C. Audio Processing

- UNIT-I      Introduction  
Audio signal & its properties, Types of audio signals, Audio processing system- brief outlines, Applications& recent development, History of audio processing.
- UNIT-II      Audio Processing & Analysis  
Representation of digital audio signal, Analysis of audio signal components, Audio channels & its uses, Sampling, Analysis of amplitude, phase & frequency of audio, parameters for audio properties, Case studies.
- UNIT-III     Audio Watermarking  
Basic principles of audio watermarking, Advantages & disadvantages, Watermarking Techniques, Applications, Quality measurement, Payload, Case studies.
- UNIT-IV     Audio Authentication  
Challenges, Basic concepts, Procedures, measuring of authentication levels, Applications, Case studies.
- UNIT-V      Audio Compression  
Basic principles, Challenges, Standard algorithms of audio compression, Benchmarks for audio compression, Case studies.
- UNIT-VI     IPR of Audio  
  
Understanding and Overview of audio IPR, Basic concepts & procedures, Emerging Issues and Challenges, Advantages and Disadvantages, Patents, Trademarks, Copyrights, Future Aspects, Case studies.

### References:

1. ZdoZoizen "Digital Audio Signal Processing" Wiley-Blackwell, 2nd Edition, 2008.
2. Ken C. Pohlmann, "Principles of Digital Audio", McGraw-Hill Inc., US, 3rd Edition, 1995.
3. NedelikoCvejic&TapioSeppanen, "Watermarking Techniques and Technologies and Bench marks", Idea Group, 2007.
4. Stephen J. Solari, "Digital Video and Audio Compression", McGraw-Hill, 1997.

## **D. Internet on Things**

Introduction to IoT: Sensing, Actuation, Networking basics, Communication Protocols, Sensor Networks, Machine-to-Machine, Communications, IoT Definition, Characteristics. IoT Functional Blocks, Physical design of IoT, Logical design of IoT, Communication models & APIs.

M2M to IoT-The Vision-Introduction, From M2M to IoT, M2M towards IoT-the global context, A use case example, Differing Characteristics. Definitions, M2M Value Chains, IoT Value Chains, An emerging industrial structure for IoT

M2M vs IoT An Architectural Overview-Building architecture, Main design principles and needed capabilities, An IoT architecture outline, standards considerations. Reference Architecture and Reference Model of IoT.

IoT Reference Architecture- Getting Familiar with IoT Architecture, Various architectural views of IoT such as Functional, Information, Operational and Deployment. Constraints affecting design in IoT world- Introduction, Technical design Constraints.

Domain specific applications of IoT: Home automation, Industry applications, Surveillance applications, Other IoT application.

Developing IoT solutions: Introduction to Python, Introduction to different IoT tools, Introduction to Arduino and Raspberry Pi Implementation of IoT with Arduino and Raspberry, Cloud Computing, Fog Computing, Connected Vehicles, Data Aggregation for the IoT in Smart Cities, Privacy and Security Issues in IoT.

### **References:**

1. Jan Holler, Vlasios Tsiatsis, Catherine Mulligan, Stefan Avesand, Stamatis Karnouskos, David Boyle, "From Machine-to-Machine to the Internet of Things: Introduction to a New Age of Intelligence", 1st Edition, Academic Press, 2014.
2. Vijay Madiseti and Arshdeep Bahga, "Internet of Things (A Hands-on Approach)", 1st Edition, VPT, 2014

3. Francis daCosta, "Rethinking the Internet of Things: A Scalable Approach to Connecting Everything", 1st Edition, Apress Publications, 2013
4. Cuno Pfister, Getting Started with the Internet of Things, O'Reilly Media, 2011, ISBN: 978-1-4493-9357-1

## **E. Natural Language Processing**

Introduction of NLP: Knowledge in Speech and Language processing, ambiguity and models and algorithm, language and understanding, brief history.

Regular Expressions, Automata, Similarity Computation: Regular Expressions, patterns, FA, Formal Language, NFSAs, Regular Language and FSAs, Raw Text Extraction and Tokenization, Extracting Terms from Tokens, Vector Space Representation and Normalization, Similarity Computation in Text

Morphology and Finite-State Transducers: Inflection, Derivational Morphology, Finite-State Morphological Parsing, The Lexicon and Morphotactics, Morphological Parsing with Finite State Transducers, Combining FST Lexicon and Rules, Lexicon-free FSTs: The Porter Stemmer, Human Morphological Processing.

Matrix Factorization and Topic Modeling: Introduction, Singular Value Decomposition, Nonnegative Matrix Factorization, Probabilistic Latent Semantic Analysis, Latent Dirichlet Allocation

Computational Phonology and Text-to-Speech: Speech Sounds and Phonetic Transcription, The Phoneme and Phonological Rules, Phonological Rules and Transducers, Advanced Issues in Computational Phonology, Machine Learning of Phonological Rules, Mapping Text to Phones for TTS, Prosody in TTS

Probabilistic Models of Pronunciation and Spelling: Dealing with Spelling Errors, Spelling Error Patterns, Detecting NonWord Errors, Probabilistic Models, Applying the Bayesian method to spelling, Minimum Edit Distance, English Pronunciation Variation, The Bayesian method for pronunciation and Weighted Automata, Pronunciation in Humans

grams: Counting Words in Corpora, Simple (Unsmoothed) N-grams, Smoothing, Backoff, Deleted Interpolation, N-grams for Spelling and Pronunciation, Entropy

HMMs and Speech Recognition: Speech Recognition Architecture, Overview of Hidden Markov Models, The Viterbi Algorithm Revisited, Advanced Methods for Decoding, Acoustic Processing of Speech, Computing Acoustic Probabilities  
Training a Speech Recognizer, Waveform Generation for Speech Synthesis, Human Speech Recognition.

Word Classes and Part-of-Speech Tagging: Tagsets for English, Part of Speech Tagging, Rule-based Part-of-speech Tagging, Stochastic Part-of-speech Tagging, Transformation-Based Tagging

Lexicalized and Probabilistic Parsing: Probabilistic Context-Free Grammars, Problems with PCFGs, Probabilistic Lexicalized CFGs, Dependency Grammars, Human Parsing, The Chomsky Hierarchy, How to tell if a language isn't regular, Natural Language Context-Free or not, Complexity and Human Processing

Representing Meaning and Semantic Analysis: Computational Desiderata for Representations, Meaning Structure of Language, First Order Predicate Calculus, Some Linguistically Relevant Concepts, Alternative Approaches to Meaning, Syntax-Driven Semantic Analysis, Attachments for a Fragment of English, Integrating Semantic Analysis into the Earley Parser, Idioms and Compositionality, Robust Semantic Analysis

Lexical Semantics and Information Retrieval: Relations Among Lexemes and Their Senses, WordNet: A Database of Lexical Relations, The Internal Structure of Words, Creativity and the Lexicon, Selection Restriction-Based Disambiguation, Robust Word Sense Disambiguation, Information Retrieval, Other Information Retrieval Tasks, Named Entity Recognition.

Text Sequence Modeling and Deep Learning: Statistical Language Models, Kernel Methods, Word-Context Matrix Factorization Models, Neural Language Models, Recurrent Neural Networks<sup>T</sup>

## **References:**

1. Daniel Jurafsky and James H. Martin Speech and Language Processing (2nd Edition), Prentice Hall: 2nd edition, 2008.
2. Machine Learning for Text by Charu C. Aggarwal, Springer, 2018 edition
3. Foundations of Statistical Natural Language Processing by Christopher D. Manning and Hinrich Schuetze, MIT press, 1999
4. Steven Bird, Ewan Klein and Edward Loper Natural Language Processing with Python, O'Reilly Media; 1st edition, 2009
5. Roland R. Hausser, Foundations of Computational Linguistics: Human-Computer Communication in Natural Language, Paperback, MIT press, 2011



## **Syllabus for Course Work in Ph. D. Programme**

Department of Physics  
Vidyasagar University  
Midnapore 721102



## Syllabus for Course Work in Ph. D. Programme in Physics

Total Marks: 200  
Division of marks

Course Code	Marks
Course I	Theoretical: 40 Practical: 10 Total: 50
Course II	Theoretical: 40 Practical: 10 Total: 50
Course III (PHS)	Theoretical: 50  Total: 50
Course IV (PHS)	Theoretical: 50  Total: 50
Total	200

### Structure of the Curriculum for Ph.D. Course work in Physics

Course Code	Course Name	Marks			Exam Time
		Theory	Assignment	Total	
Course I	Research Methodology	40	10	50	2 hours
Course II	Computer Application and Statistical Methods	40	10	50	2 hours
Course III (PHS)	Physics	50		50	2 hours
Course IV (PHS)	Special Topics in Physics	50		50	

## Course Contents

Course Code: Course I

**Course Name: Research Methodology**

**Marks: Theoretical – 40 + Assignment (Practical) – 10 = 50**

### **Group A: Theoretical – 40 marks**

- 1.1 Research: definition, importance, meaning and characteristics. Steps in research.
- 1.2 Research problem: identification, selection and formulation.
- 1.3 Sampling: definition, theory, types, techniques and steps. Sample size, advantages and limitations of sampling.
- 1.4 Data: definition, sources and types. Data collection methods. Limitations and cautions. Analysis of data.
- 1.5 Review of literature and Bibliography.
- 1.6 Research report: types, contents, styles and steps in drafting. Editing the final draft and Thesis writing.

### **Group B: Assignment writing on any one (Practical) – 10 marks**

- (a) Review of articles
- (b) Research proposal
- (c) Sample design
- (d) Data analysis

**Course Code: Course II**

**Course Name: Computer Application and Statistical Methods**

**Marks: Theoretical – 40 + Assignment (Practical) – 10 = 50**

**Group A: Theoretical – 20 marks**

- 2.1 Operating system: latest version of WINDOWS, UNIX.
- 2.2 Database management System.
- 2.3 Office management: MS-Word, MS-Excel, MS-Power Point, and Latex.
- 2.4 Software Packages: MATHLAB, MATHEMATICA, Origin, etc.
- 2.5 Programming with C / C++ / Python

**Group B: Theoretical – 20 marks**

- 2.6 Probability distribution. Distribution Free Approach, Test for goodness of fit for a proposed distribution. Correlation of coefficient: simple linear, multiple linear, and partial. Regression; simple, multiple and stepwise. Sampling: definition, theory, types, techniques and steps.
- 2.7 The relevance of the research from perspective of the subject. Detailed review of state of the art. Scope of the work.

**Group C: Assignment writing on any one (Practical) – 10 marks**

Power point presentation on a research topic.

**Course Code: Course III (PHS)**

**Course Name: Physics**

**Marks: 50**

3.1 Introduction: Physical and chemical properties. Necessity of characterization.

Macroscopic properties: Optical, Electrical, dielectric, magnetic, mechanical.

Microscopic properties: Chemical structure, composition, surface characterization.

Probing bulk and nano-structure – XRD, SEM, TEM, HRTEM, Neutron scattering.

Phase changes, crystalline and amorphous fractions – DSC Thermo-gravimetric methods – TGA, DTA

3.2 Single crystals and their growth by different techniques

Conductivity, Photo-conductivity, Hall Effect, Thermoelectric Power in Semiconductor and their measurements. Measurement of drift mobility. Surface States.

3.3 Transistor Models: Ebers-Moll model, Gummel-Poon model.

3.4 Raman, FTIR, Optical microscopy, Photoluminescence, UVVIS, Optical Absorption and band gap determination, Photocurrent generation, optical device, quantum efficiency, photo responsivity.

3.5 Surface Science; Vacuum Technology, Vacuum based synthesis technology, Structure and topography, STM, LEED, AFM.

**Course Code: Course IV (PHS)**

**Course Name: Special Topics in Physics**

**Marks: 50**

4.1 Quantum Optics

4.2 IC design and simulation using PSPICE, low voltage and low power methodology of IC design.

4.3 Growth and characterization of semiconducting nanoparticles for different applications.

4.4 Optoelectronic materials for technological applications.

4.5 Low dimensional materials for energy and environmental applications.



Department of Political Science

**Vidyasagar University**

Midnapore, West Bengal – 721 102.

Telephone: (03222) 275297 / 276554 / 276555 / 276557/ 276558 Fax: (03222) 275329

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# **PhD Programme in Political Science**

## **SYLLABUS**



Department of Political Science  
**Vidyasagar University**  
Midnapore, West Bengal- 721102.

**Coursework Syllabus for Ph. D. Programme**

Year	Course No	Course Title	Full Marks
<b>1<sup>st</sup> Year</b>	PLS- 111	Social Science Research: Theoretical and Methodological Perspectives	50 (Exam.- 40+ IA 10)
	PLS- 112	Logic of Scientific Inquiry	50 (Exam.- 40+ IA 10)
	PLS- 113	Research Methods and Techniques	50 (Exam.- 40+ IA 10)
	PLS- 114	Statistical Methods and Techniques	50 Project Work Under the Supervisor
<b>Second Semester Onwards: Thesis Writing</b>			

# PhD Coursework First Semester

**PLS-111:**

## **Social Science Research: Theoretical and Methodological Perspectives**

### **Group-A**

1. Inductive and Deductive Methods
2. Analytical and Descriptive Methods
3. Qualitative and Quantitative Methods
4. Ethical Controversies in Social Science Research Methods

### **Group-B**

5. Approaches to the Study of International Relations: Normative versus Empirical.
6. Positivist Methodology in International Relations.
7. Post-Positivist Methodologies: Post-Modernism, Constructivism and Critical Theory.
8. Explaining IR versus Understanding IR: Ontology and Epistemology.

# **PhD Coursework First Semester**

## **PLS-112: Logic of Scientific Inquiry**

### **Group- A**

1. Basic Orientations Towards the Scientific Method – Characteristics of Scientific Knowledge
2. Science, Theory and Fact – Role of Theory in Social Science Research.
3. Concepts, Variables and Hypotheses as building blocks of Theory.
4. Role of 'Value' in Social Science Research.

### **Group – B**

5. Reading Politics : Causal, reason- action, hermeneutic, postmodern
6. Ideology and Interpellation :Althusseis intervention
7. Positivism :Auguste Comte's contributions
8. Karl Popper : 'Falsifiability' of scientific theory



# **PhD Coursework First**

## **Semester**

### **Course No. PLS-113**

#### **Group - A**

1. Stages of Conducting Research: (a) Formulating Research Questions; (b) Literature Review; (c) Formulating the Hypothesis; (d) Defining the Concepts; (e) Operationalizing the Concepts etc.
2. Action Research Design and Case Study Design
3. Causal Design and Descriptive Design
4. Mixed Design.

#### **Group - B**

5. Survey Research: Meaning, Different Phases and Components
6. Different Techniques and Methods of Survey Research: Sampling, Interview and Questionnaire.
7. Analysis of Survey Data: Formatting a Data file; constructing a Code; Approaches to Data Entry; Data Cleaning.
8. Ethical Issues in Survey Research.

# **PhD Coursework First Semester**

**Course No. PLS-114**

## **Group- A**

1. Introduction
2. Statistics in Social Science Research
3. Collection of Data
4. Organisation of Data

## **Group- B**

5. Presentation of Data
6. Frequency Curves and Diagrams
7. Measures of Central Tendency
8. Measures of Dispersion

# Ph.D Course Work Syllabus on Remote Sensing & GIS

Semester	Course No	Course Name	Lecture (Hours)	Credit
<b>Ph.D Course Work</b> ( 50 x 4 = 200)	<b>RSG-111</b>	<b>Research Methodology</b>	<b>10</b>	<b>4</b>
	<b>RSG-112</b>	<b>Advance Statistics and Geo-spatial Techniques</b>	<b>10</b>	<b>4</b>
	<b>RSG-113</b>	<b>Advanced application of remote sensing</b>	<b>10</b>	<b>4</b>
	<b>RSG-114</b>	<b>Advanced geographic information system</b>	<b>10</b>	<b>4</b>

# Ph.D Course work

**Credit= 4x 4 = 16**

**FM: 50 X 4 = 200**

## **Course -1: RSG-111: Research Methodology:**

- i. Research Problem: Identification and Techniques of defining a research problem, significance of literature review
- ii. Statistical Inference for Research: Concepts and Procedure concerning testing of Hypothesis, Model Calibration and Validation
- iii. Sampling Design: Steps in Sampling Design, Types of Sampling and their applications in research, Collection of Spatial and Temporal data.
- iv. Project Management : Definition and elements of Project management, Techniques of Project Management, Roles and attributes for project manager
- v. Assignment Writing

## **Course-2: RSG-112: Advance Statistics for Geo-spatial Analysis:**

- i. Concept of variables, vectors, probability and sampling / sampling design and applications
- ii. Bivariate correlation and linear regression: problem of estimation and problem of inferences. Principal component analysis.
- iii. Multiple linear regression: problem of estimation and inferences. Multicollinearity and heteroscedasticity, problem of autocorrelation, Model Selection procedure: information criterion, variable inflation factor.
- iv. Bivariate nonlinear regression: problem of estimation and inferences, Logistic regression. Concept of autocorrelation and variogram, techniques and methods of interpolation, role of interpolation for surface modeling. Geospatial Techniques: applications of RS & GIS in Geoscience research.
- v. Assignment Writing

## **Course-3: RSG-113: Advanced application of remote sensing:**

- i. Thermal Remote Sensing: Basic Principles, Physical Laws, Blackbodies and Emissivity, Thermal Infrared Radiation Properties, Thermal Infrared Atmospheric Windows, Interaction of Thermal Radiation with Terrain Elements
- ii. Thermal Data Processing: Thermal Energy Detectors, Thermal Radiometers, Thermal Scanners, Interpreting Thermal Scanner imagery, Geometric Characteristics of Thermal Scanner Imagery, Geometric and Radiometric Calibration of Thermal data, Applications
- iii. Microwave Remote Sensing: Basic Principles, Microwave Remote Sensing and its advantages, Active and Passive Microwave Systems
- iv. Attenuation of Microwave, Surface Scattering, Volume Scattering, Types of Antenna, Platforms and sensors, RADAR Environmental Considerations: Surface Roughness Characteristics, Electrical Characteristics, Vegetation and Water response to Microwave energy

- v. Radar Operation, Polarization, Spatial Resolution, Radar Image Geometry, Relief Displacement, Shadows and Speckle effect, Side Looking Airborne Radar (SLAR) Operation, Synthetic Aperture Radar (SAR), Differential Interferometry, Applications
- vi. Hyperspectral Remote Sensing: Basic Concept, Advantages and Disadvantages, Multispectral vs. Hyperspectral Remote Sensing, Basic principles of Spectroscopy, Hyperspectral sensors and platforms, Sensor specifications
- vii. Hyperspectral Data Processing: Atmospheric Corrections-Empirical and Physics based Approaches, Bad band and Bad line removal
- viii. Information extraction: Endmember collection, Minimum Noise Fraction, Pixel Purity Index, N-D visualizer, ground truthing through Spectro-radiometer, Image Classification techniques
- ix. Application of Hyperspectral Data: Application in Agriculture, Water, Soil and Mining
- x. LIDAR: Basic Principles and advantages, Laser and Scanning System, Laser Location, LIDAR Antenna Attitude, Types of LIDAR returns, LIDAR post processing of multiple returns, Accuracy of LIDAR measurements, The Laser Vegetation Imaging Sensor
- xi. Applications of LIDAR Data: Areas of Applications with special reference to Vegetation and Urban Infrastructure
- xii. Assignment Writing

#### **Course-4 RSG -114: Advanced geographic information system:**

- i. Data Storage: Spaghetti Model, Topological Model, Quadtree
- ii. Database Modelling: Hierarchical Model, Network Model, Relational Model
- iii. Spatial Database Management: Concept of Spatial Database, Database Management System, Basic Concepts of Entity, Relationship and Primary Key, Database Structure
- iv. Data Organization: Chain Coding, Run-length Coding, Block Coding
- v. Spatial Analysis: Types of Spatial Analysis, Measurement in GIS, Query – Query by Attributes, Spatial Queries, Attribute Based Operation, Neighbourhood Analysis, Connectivity Analysis, Overlay and Coverage Rebuilding,
- vi. Data Quality in GIS: Uncertainty in GIS data, Positional and Attribute Accuracy, Logical consistency, Completeness Lineage,
- vii. Errors in GIS: Sources of Errors in GIS data base: Obvious sources from natural variations & original measurements, Errors through processing, errors associated with overlaying of polygons, Data Quality parameters
- viii. The Planet Earth, Geoids, Concept of Spherical Geometry and Geodesy, Reference Spheroid and Mean Sea Level, Introduction to different spheroid / ellipsoid systems with special reference to Everest and WGS-84 - Geometric Constants
- ix. Rectangular and Geographical Coordinate System; Spherical trigonometry – concept of great circle and spherical triangle, Conversion of latitudes and longitudes to linear distances, Co-ordinate Transformations, Geoidal parameters and their relationship
- x. Dimensions of some well-known Spheroids, Definition and Determination of Geoid Undulation, Coordinate System used in Geodesy, Indian Geodetic Datum; Coordinate System used by Survey of India ( $\phi$ ,  $\lambda$ , H), Redefinition of Horizontal and Vertical Datum in India, Indian Mean Sea Level Datum
- xi. Satellite Geodesy: Early satellites, Interferometry, Doppler, Point Positioning, Translocation, Observational systems, New Satellite gravity mission
- xii. Modern Views on determination of figure of the Earth: Gravimetric Methods, Astrogeodetic methods.
- xiii. Assignment Writing

# Syllabus for Ph. D. Course work

## Department of Sanskrit

### **Course: I: Research Methodology**

**50 Marks**

#### **Course Outcome:-**

To do research work one should first have an idea of what research actually means and what are the types of research. Otherwise one's work will not be fruitful. Sanskrit has a rich heritage of manuscripts the study of which can enrich the academic world. So manuscriptology is to be tidied. Knowledge of other vital elements of research, such as, text editing, proof reading, preparation of bibliography and index etc. should be studied.

#### **Research Methodology**

- **Definition & classification of Research**
- **Manuscriptology**
- **Handling of Manuscripts(General concept-elementary knowledge)**
- **Text editing**
- **Proof Reading**
- **Preparation of Bibliography & Index**

#### **Reference Books:**

1. Indological studies in India: Raghavan
2. India and Indology--- W. Nomaman Brown Ed. R. Roacher
3. Review of Indological Research in last 75 years Ed. P. G Chinmulgund  
And Dr. VV Mirashi
4. Introduction of the critical edition of the Ramayana, Baroda
5. अनुसन्धान का विवेचन- उदयभानु सिंह
6. शोध प्रविधि – विनय मोहन शर्मा
7. पाण्डुलिपि विज्ञान – सत्येन्द्र
8. न्युकेटालोगस केटालोगरम की भूमिका – वी राघवन
9. Writing, Reading and Research- Rechard Veit. Chirstophar Gould and John Clifford  
(2<sup>nd</sup> Ed.).
10. Research Methodology- Methods & Techniques C. R. Kothari & Gaurav Garg – (3<sup>rd</sup> Ed.).
11. A Manual for Writers of Research paper, Theses and Dissertation.- Kate L. Turabain
12. An Introduction to the Indian textual criticism – S. M. Katre
13. Aspects of Manuscriptology- K. S. Das & Ratna Basu
14. Sanskrita puthividya : Tattva o prayoga- Subuddhi Charan Goswami

### **Course: II : Survey of Sanskrit Researches**

**50 Marks**

### **Course Outcome:-**

Our ancient scholars made remarkable contribution in the various fields of learning, such as, Veda and Upanisadas, classical poetry and drama, theories of poetics, philosophy of grammar, schools of philosophy (e.g. Samkhya, Mimamsa, Vedanta, Naya, Baudha etc.) and others. Valuable contributions in this field are not possible without knowing what earlier researches have accomplished. It is necessary to decide upon the future course of research activities.

- (i) Survey of Vedic researches
- (ii) Survey of Researches in classical Sanskrit Literature
- (iii) Survey of Researches in Poetics
- (iv) Survey of Grammatical researches
- (v) Survey of Philosophical researches

### **Reference Books:**

1. Vedic Bibliography I-III, R. N. Dandekar
2. History of Indian Literature, Winternitz
3. History of Classical Sanskrit Literature, M. Krisnamacharier
4. History of Sanskrit Literature- Dasgupta & S.K. De
5. Kalidas Bibliography
6. Sanskrit Poetics – S. K. De
7. Systems of Sanskrit Grammar – S.K. Belvalkar
8. Mahabhasya- S. D. Joshi
9. Vakyapadiya (appendices)- S. Abhyankar
10. भारतीय दार्शनिक समस्या - नन्दकिशोर शर्मा

### **Course: III : Method of Critical Examination in Naya & Vyakarana**

**50 Marks**

### **Course Outcome:-**

No fruitful research is possible without critical examination or debate with experts in the subjects. Debates and discussions are essential for clear understanding and arriving at the right conclusions. Our ancient scholars were aware of the fact and Goutama in his Nyayasutra, deals with topics the study of which can make one an expert in the methodology of debates.

In the Indian tradition, the study of grammar is accorded an esteemed position. From an early period our grammarians develop a methodology of their own, conducive to critical analysis and entering into deep subtle elements. They provide us with technical rules that not only solve problems of grammar but many also be a helpful guide our ordinary life.

- (i) **Bharatiyadarsane Vicarapaddhati :** 25 Marks  
Pramana, Drstanta, Siddhanta, Tarka, Nirnaya, Vada, Jalpa, Vitanda, Chhala, Jati, Nigrahasthan.
- (ii) **Sabdasastre Prayogasiddhau Vicarapaddhati :** 25 Marks

Utsargapavadanyaya, Prasadavasinyaya, Kakadhikarananyaya,  
Vipratishedhanyaya, Devadattahantrhatanyaya, Asiddham Vahirangamantarange,  
Purvatasiddham, Vyakhyanato Visasapratipattirna hi Sandehadalaksanam,  
Purastadapavada anantaran vidhin vadhante nottaran, Ekadesavikrtamananyavat,  
Yatranekavidhamantaryam tatra Sthanata Antayam Valiyah, Arthavadgrahane  
Nanarthakasya grahanam, Kvacidapavade' pyutsargo' bhinivisate,  
Sannipatalaksanavidhiranimittam tadvighatasya,  
Paranityantarapavadanamuttorottariyam valiya

### Reference Books:

1. Gautama- Nyayasutra with Vatsayana Bhasya, ed. by Pt. Phanibhusan Tarkavagish.
2. B.K.Motilal- Epistemology, Logic and Grammar in Indian Philosophy.
3. न्यायदर्शनम्- तारानाथ तर्कतीर्थ
4. व्याकरणमहाभाष्यम्- सम्पादकः टीकाकारश्च-हरिनारायणतिवारी
5. व्याकरणमहाभाष्यम्-(प्रदीपोद्घोतसहितम्) सम्पादकः व्याख्याकारश्च जयशङ्करलालत्रिपाठी।
6. परिभाषेन्दुशेखरः- व्याख्याकारः आचार्य – विश्वनाथमिश्रः
7. परिभाषेन्दुशेखरः –तात्याशास्त्रीकृतभूतिटीकासहितः
8. वैयाकरणसिद्धान्तकौमुदी (बालमनोरमा-तत्त्वबोधिनीसहिता)- गिरिधरशर्मा तथा परमेश्वरानन्दशर्मा

### Course: IV : Book Review & Term Paper

Marks- 50

#### Course Outcome:-

A Student preparing a dissertation/ Theses has to go through works done by previous scholars. He has to judge their quality and relevance to the study in hard. So he must learn to assess the value of such work. Moreover, he should locate the work that may supply him with relevant matters. He should naturally go through them carefully and critically evaluate them. Finally, he should give his suitable Comments.

- (i) Review of one Book related to research topic of the student (Books to be selected by the Departmental Committee)
- (ii) One Term Paper with literature survey related to the research topic of the student to be presented in the Departmental seminar.

Marks: Book Review-20(Written), Term Paper-20(written) + 10(Viva)



# VIDYASAGAR UNIVERSITY

Department of Sociology

Syllabus for Ph.D. Coursework (Revised)

Effective from the Session 2015-2016

# SYLLABUS FOR PH.D COURSEWORK – 2015

## PAPER I,II,III & IV

### SOCIOLOGY

#### **Paper – I: Research Methodology including Thesis and assignment writing (50 marks)**

Unit – I: a) Nature and objective of research

b) Qualitative, Quantitative and Mixed method

c) Social Statistics: Descriptive and Inferential Statistics

Unit – II: a) Major steps in Social Researches

Unit – III: a) Hypothesis and research questions and sampling.

b) Data collection Documentary sources, observations and interviews

Unit – IV: a) Bibliography and Referencing

b) Thesis and Assignment writing – Assignment writing (any one)

i. Book Review

ii. Term Paper

#### Suggested Readings:

1. Earl Babbie: The Practice of Social Research
2. P.V.Young: Scientific Social Survey and Research
3. Goode and Hatt: Methods in Social Research
4. Theresa Baker: Doing Social Research

**Paper – II: Computer Application – Relevant to Research Work in the subjects concerned**

**(50 marks)**

Unit – I: Computer fundamentals – Hardware (PC, Desktop, Laptop, CD-R, CD-RW, DVD, Hard Disc, Pen Drive use, LAN, WAN, Printer, Scanner etc.)  
Software (System Programmes, Programmable Packages and Programmes) and  
Operating system (Windows: creation, access and transfer of folders and files).

Unit – II: Internet – Browsing, Download, Upload of files, e-mail, e-journal and e-books.

Unit – III: MS-Office: Creating and editing word file: References, Index, Sort, Auto, summary, PDF, Print, Mail-merge etc.

Unit – IV: Collection and presentation of Data: tables and Diagrams

Unit – V: SPSS

Assignment writing (Any one):

1. Preparing a power point presentation
2. Social Statistics

**Paper – III: Advanced topics in Emerging Areas covering the whole subject (50 marks)**

Each year Departmental Committee will select any one of the following texts for the topics to be studied.

1. Post Structuralism:
2. Post Modernism:
3. Feminism: Feminism – Jane Freedman
4. Phenomenology: Contemporary Sociological Theory – Wallace and Wolf
5. Ethnomethodology: Modern Sociological Theory – Francis Abraham

**Paper – IV: Advanced topics in Emerging Areas covering the whole subject (50 marks)**

- A. Review of one book related to the research topics of the scholars
- B. Review of literature on the research topic

# **Syllabus for Ph. D. course work**



**HUMAN PHYSIOLOGY WITH COMMUNITY HEALTH**  
**VIDYASAGER UNIVERSITY**

<b>COURSE</b>	<b>TOPICS</b>		<b>MARKS</b>	<b>CREDIT</b>
<b>COURSE I</b>	<b>General research methodology, Biostatistics and Computer application</b>	<ol style="list-style-type: none"> <li>1. Research methodology</li> <li>2. Application of computer in research</li> <li>3. Statistical analysis of biological data</li> </ol>	<b>50</b>	<b>16</b>
<b>COURSE II</b>	<b>Research methods and techniques used in biology</b>	<ol style="list-style-type: none"> <li>1. Analytical Techniques</li> <li>2. Techniques in microbiology</li> <li>3. Techniques in Biophysics and Electrophysiology</li> <li>4. Nanobiotechnology</li> <li>5. Advances in Molecular Biology and Genetic Engineering</li> </ol>	<b>50</b>	<b>16</b>
<b>COURSE III</b>	<b>Advanced topics in Human Physiology</b>	<ol style="list-style-type: none"> <li>1. Cardiovascular Physiology</li> <li>2. Neurophysiology</li> <li>3. Environmental Physiology</li> <li>4. Genetics, Molecular biology and Biotechnology</li> <li>5. Microbiology and Immunology</li> <li>6. Sports Physiology and Ergonomics</li> <li>7. Endocrinology and Reproductive</li> <li>8. Physiology</li> <li>9. Community Health and Epidemiology</li> <li>10. Stem cell Biology</li> </ol>	<b>50</b>	<b>16</b>
<b>COURSE IV</b>	<b>Review of Literature</b>	<ol style="list-style-type: none"> <li>1. Collection of available literature</li> <li>2. Evaluation</li> </ol>	<b>50</b>	<b>16</b>
<b>SUGGESTED BOOKS</b>				

# **Vidyasagar University**

## **Subject: Human Physiology with Community Health**

### **Syllabus for Ph. D. course work**

#### **Paper 1: General Research methodology, Biostatistics and Computer Application**

##### **1. Research methodology**

- a) Meaning of research, types of research, significance of research, Process of research – formulating research problem, development of hypothesis, research design, collection of data, data analysis.
- b) Literature survey and bibliography, art of thesis writing
- c) Writing a research project – preparation of project (statement of problem, goal of the project, methodology, significance, budget planning, selection of funding agency, execution of project, report writing.
- d) Research ethics - Ethical committees - Commercialization – Copy right – royalty - Intellectual property rights and patent law, Reproduction of published material – Plagiarism - Citation and acknowledgement, Reproducibility and accountability.

##### **2. Application of Computer in Research**

- a) MS office and its application in Research – MS Word, MS Power point and MS Excel
- b) Operating system- function, types, Windows, Unix, Linux
- c) Use of Internet in Research – Websites, searches Engines, E-journal and E-Library – INFLIBNET.
- d) Data base – definition , structure, biological database
- e) Bioinformatics – computer languages for bioinformatics, Application of Bioinformatics, Bioinformatics Resources: NCBI, EBI, ExPASy, RCSB, DDBJ: The knowledge of databases and bioinformatics tools available at these resources, Open access bibliographic resources and literature databases: PubMed, BioMeb Central, Public

Library of Sciences (PloS), CiteXplore., software tools for structure analysis of biomolecules, structure prediction, Sequence Analysis: Basic concepts of sequence similarity, identity and homology, genome analysis, Phylogenetic tree, motif analysis

3. Statistical analysis of biological data
  - a) Sampling – different types, methods for sampling, scaling techniques
  - b) Correlation – Multiple, regression- multiple, stepwise regression
  - c) Experimental design
  - d) Avova, Anocova , multivariate analysis technique, factor analysis
  - e) Nonparametric statistics- Chi square test for normality of distribution, non parametric test for correlation studies

## **Paper 2: Research methods and techniques used in biology**

### **1. Analytical Techniques**

Preparation of solutions, Expression of concentrations, Buffers and preparation, Cell disruption and fractionation, Protein purification techniques, DNA and Protein Microarray

### **2. Techniques in Microbiology**

Molecular Techniques in Clinical Microbiology, molecular approaches to diagnostic microbiology

Preparation and sterilization of solid and liquid culture media, techniques of tissue and cell culture, sources of type strains of microorganisms, preservation and maintenance of cultures

### **3. Techniques in Biophysics and Electrophysiology**

- a) Separation technique - HPLC: mobile phase systems, modes of operations application, Hydrodynamics method: fundamental principles, Centrifugation, Ultracentrifugation and their applications in molecular weight, size determination.
- b) Fluorescence anisotropy and polarization measurement, Protein tryptophan fluorescent measurement, Study of membrane fluidity.
- c) Study of phase transition of membrane phospholipids, study of membrane potential using fluorescence spectroscopy
- d) Techniques in electrophysiology – Modern techniques in voltage clamp, current clamp, and patch clamp. Computational electrophysiology, Bioelectric recognition Assay (BERA)

### **4. Nanobiotechnology**

Types of nanomaterials and their classifications (1D, 2D and 3D etc. Nanocrystal, Nanoparticle, Quantum dot, Quantum Wire and Quantum Well etc) ), Physical and Chemical Fundamentals of Nanomaterials , Applications of Nano-Materials in Biosystems , Protein Targeting - Small Molecule/ nanomaterial - Protein Interactions , Nanomaterial-



Cell interactions-Manifestations of Surface Modification, Nanomaterials and Diagnostics/Drug Delivery and Therapeutics , Nanomaterials and Toxicity

### **5. Advances in Molecular Biology and Genetic Engineering**

Gene therapy: Introduction, vectors in gene therapy, advances in gene therapy, safety assurances, DNA analysis and diagnostics: Methods of DNA analysis, Diagnosing, Medical forensics: DNA fingerprinting, - genetic identification, Pharmaceutical products of DNA technology: Human protein replacements, Human therapies, Vaccines- traditional vaccines and DNA vaccines

Genome mapping- Genetic mapping, Physical mapping, Resolution of Mapping, Strategies for Sequencing whole genome and sequence data analysis, Comparative Genomics, Importance of Proteomics, Strategies in proteomics: 2D PAGE and Mass spectrometry Mapping of protein interactions: two hybrid, phage display, Applications of proteomics: Understanding mechanism of pathogenesis, Drug discovery, Disease diagnosis, identification and characterization of novel proteins

## **Paper 3: Advanced topics in Human Physiology**

1. ***Cardiovascular Physiology:*** Ischemia and reperfusion injury, Arrhythmia, Integrative cardiovascular control, Echocardiography, Angiogenesis technology.
2. ***Neurophysiology:*** Molecular basis of Schizophrenia, Alzheimer's disease, Mood disorder, Neurobehavioral studies, Neurological assessment techniques: EEG, Patch-clamp techniques.
3. ***Environmental Physiology:*** Assessment of thermal environment- hot and cold environment, thermal discomfort assessment, auditory environment and noise assessment-subjective and empirical measure, noise mapping, measuring hearing threshold.
4. ***Genetics, Molecular Biology and Biotechnology:*** Linkage, Crossing over and RFLP in linkage analysis, Mapping in eukaryotes, Chromosome Mutation, Gene therapy, Genetics and Cancer, 2-D Gel Electrophoresis, MALDI, Southern, Northern and Western Blotting, RT-PCR, Micro assay, Stem cell Biology, Site – direction mutagenesis, DNA fingerprinting and foot printing, transgenesis, Recombinant DNA Technology application studies in Biotechnology.
5. ***Microbiology and Immunology:*** Host microbe Interaction, Infectious diseases, epidemiological studies, Bioremediation. Immunology- a) T-cell regulation, b) B-cell regulation, c) Cytokines, Apoptosis, e) Flow cytometry, Confocal microscopy, Cell links, Knockout mice.

Viable But Non Culturable (VBNC) State in Bacteria, Factors inducing VBNC state, VBNC state in pathogenic bacteria, Virulence and Gene Expression of VBNC cells, The

concept of Microbiome, Study of Microbiome, The Microbiome Project: Human and Earth.

6. ***Sports Physiology and Ergonomics***: Kin anthropometry, Biomechanical analysis of posture, Shoulder moment, back force-2D & 3D model. Computer aided work space design-Ergo man, Ergo space, Workspace modeling. Physiological and Psychological methods of work stress.
7. ***Endocrinology and Reproductive Physiology***: Molecular endocrinopathy at the level of receptors, molecular basis of endocrine tumors, in vitro fertilization, cytokines as hormones.
8. ***Community Health and Epidemiology***: Setting a Community Health Program, Concept of Epidemiology, Principle of Epidemiological research.
9. ***Stem Cell Biology*** : Introduction to Stem Cells , Reprogramming of Somatic Cells to induced pluripotent Stem cells, Application of iPS technology to Regenerative Medicine, Developmental hematopoiesis, Epigenetic regulation of stem cell fate, Niche Biology: regulation of hematopoiesis by the niche-mediated signaling mechanisms. Cryopreservation of cells (general), Cord blood banking and long-term, storage of stem cells, FACS and its application in stem cell research, neural stem cells and differentiation.

#### **Paper IV: Review of literature**

Students shall collect the available literature in the chosen field of research, preparation chronological order about the development of various subtopics in the chosen field, identification of gaps in the knowledge and preparation of objectives to the bridge of those gaps. Students should perform the review work under the guidance of a teacher (preferably supervisor of the Ph. D. Work). They should keep in regular contact to complete the work. The report should not be less than 30 pages (Times New Roman , 12 pts, 1.5 line space) and it should be prepared in a standard format ( Introduction, objective, review / discussion, conclusion , reference).

**Evaluation:** students shall submit a printed report through the guide to the Head of the Department. The review will be evaluated on the basis of the report submitted and viva-voce examination conducted by the department.

## Suggested books

1. Kothari, C.R.(2008). Research Methodology: Methods and Techniques. Second Edition. New Age International Publishers, New Delhi.
2. Garg.B.L., Karadia, R., Agarwal,F. and Agarwal, U.K., 2002. An introduction to Research Methodology, RBSA Publishers.
3. Day RA (1992) How to write and publish a scientific paper. Cambridge University press. London
4. Anderson, Durston and Poole : Thesis and Assignment writing
5. R. Kumar : Research methodology – a Step-by Step Guide for beginners
6. Dawson C. : Practical Research methods :
7. Das D. and Das A.: Statistics in Physiology and Psychology. Academic publisher. Kolkata
8. Gupta S.P. (2008). Statistical Methods. 37<sup>th</sup> ed. (Rev) Sultan Chand and Sons. New Delhi. 1470 p.
9. Downine N.M : Basic Statistical Methods. New York:“Harper and Health Row Publishers.
10. Frank, Harry. Statistics. Concepts and Applications. Cambridge. Althoen, Steven Cambridge University.
11. Dhara P C : Computer in Biological Sciences. Academic Publisher, Kolkata
12. Leon & Leon (2202). Internet for everyone, Vikas Publishing House.
13. SPSS – Operating Manual and handbook – Latest version
14. Sinha p.K.(1992). Computer Fundamentals, BPB Publications, New Delhi.
15. De Robertis and De Robertis: Cell and Molecular Biology
16. Gupta P. K. : Cell and Molecular Biology

**Vidyasagar University**  
**Syllabus**  
**For**  
**Ph.D. Course in Women's Studies**

*Total Marks: 200*

*Medium of instruction and writing: English.*

**Paper-I**

**Full Marks- 50**

**Research Methodology for Women's Studies**

**Unit –I**

Identification of Research Problem

- Fundamentals of research
- Basic principles of research
- Theory building
- Preparation of proposal
- Review of literature
- Hypothesis and research questions

**Unit – II**

Research Designs

- Types of research
- Social research
- Research in Women Studies
- Ethics in research

**Unit – III**

Tools and techniques of research

- Interviews. Questionnaire, Observation, check-list
- Sampling methods
- Data analysis
- Tabulation and graphical representation
- Basic statistics – central tendency, correlation, regression, chi-square testing, etc. and nonparametric tests

## Unit – IV

### Research Reporting

- Reporting of research in thesis/dissertation
- International style of bibliographic citation
- Evaluation of research
- Technical writing

### Reading Materials on Research Methodology

1. Murty Kasibhatta Satya. Handbook of research methodology in history. Sterling Publishers New Delhi.
2. Singh V K. Outline of social research methodology. 2013 Cyber Tech Publications New Delhi
3. Panneerselvam R. Research methodology. 2010 PHI Learning New Delhi.
4. Khasnabis Ratan Saha Suvasis. Research methodology. 2015 Universities Press Hyderabad.
5. Taylor Bill Sinha Gautam Ghoshal Taposh. Research methodology : a guide for researchers in management and social sciences. 2006 PHI Learning New Delhi.
6. Misra R P. Research methodology : a handbook. Concept Publishing New Delhi.
7. Kumar Ranjit. Research methodology : a step-by-step guide for beginners. 2014 Sage Publications London.
8. Kothari C R. Research methodology : methods and techniques. 2007 New Age International New Delhi.
9. Misra Harikesh N. ed Singh Vijai P. Ed. Research methodology : social spatial and policy dimensions. Rawat Publications Jaipur.
10. Kulkarni M.V. Research methodology : text, illustrations and cases. 2010 Everest Publishing House Pune.
11. Gupta Santosh. Research methodology and statistical techniques. Deep and Deep Publications New Delhi.
12. Chitnis K.N. Research methodology in history. Atlantic Publishers and Distributors New Delhi.
13. Pande G.C. Research methodology in social science. Anmol Publications New Delhi.

14. Vidyarphi L P Halder A K. Research methodology in social science in india. Today and Tomorrows Printers and Publishers New Delhi.
15. Reddy Chilakala Ramamuni. Research methodology in social sciences. Daya Publishing House New Delhi.
16. Ray G L Mondal Sagar. Research methodology in social sciences. 2005 Kalyani Publishers New Delhi.
17. Thakur Devendra. Research methodology in social sciences. 2009 Deep and Deep Publications New Delhi.
18. Dash Priyaranjan. Research methodology with SPSS. 2011 Vrinda Publications Delhi.
19. Taylor Bill Sinha Gautam Ghoshal Taposh. Research methodology: a guide for researchers in management and social sciences. 2008 Prentice Hall of India New Delhi.
20. Gomm Roger. Social research methodology :a critical introduction. 2008 Palgrave Macmillan Houndmills.
21. Smagorinsky Peter. Speaking about writing: reflections on research methodology. Sage Publications California.

## **Paper-II**

**Full Marks- 50**

### **Feminism: Theories and Debates**

#### ***Unit 1***

- The necessity of Women's Studies: Concept, Nature and Scope;
- Feminist Roots of Women's Studies;
- Interdisciplinary Approach to Feminism;
- Gender and Patriarchy;
- History of Ideas on Women –Aristotle to Mill; Public vs Private Domain

#### ***Unit 2***

- The First Wave: Liberal Feminism;
- The Second Wave: Radical Feminism;
- French Feminism(s): Kristeva, Irigary, Witting, Cixous;
- Feminism and Womens' Movement in India

#### ***Unit 3***

- Cultural Feminism and Gynocentrism;
- Feminism and Post Modernism – the Crisis in Feminism;

- Gender Issues in Academics and Academia

#### **Unit 4**

- Women's Oppression, Private Property and Kinship Structures;
- Women's Oppression: Simone De Beauvoir and the Second Sex

#### **Readings:**

S. Jackson and J. Jones (eds). *Contemporary Feminist Theories*, New York, 1998

Eisenstein, H. *Contemporary Feminist Thought*. Boston, 1984

Mazumdar, Rinita. *A Short Introduction to Feminist Theory*. Kolkata, 2001

Mazumdar, Rinita. *Understanding Gender*. Kolkata, 2004

Sangari, Kumkum and Sudesh Vaid eds. *Recasting Women*. New Delhi, 2009

Kumar, Radha. *Feminism and Literature*.

Sinha, Mrinalini. *Colonial Masculinity*.

Humm, Maggie, ed. *Feminisms a Reader*. New York: Harvester Wheatsheaf, 1992

John, Mary E. "Women's Studies in India and the Question of Asia: Some Reflections", *AJWS*, 11:2, 2005

Krishnaraj Maithreyi, ed. *Women's Studies in India: Some Perspectives*. New Delhi: Popular Prakashan, 1986

Mazumdar, Vina. *Emergence of Women's Question in India and Role of Women's Studies*. New Delhi: CWDS, 1985

Bhasin, Kamala. *What is Patriarchy?* New Delhi: Kali for Women, 1986

Bryson, Valerie. *Feminist Political Theory: an Introduction*. Basingtoke: Macmillan, 1992

Irigary, Luce, *This Sex Which is Not One* (transl. C. Porter & C. Burke), Ithaca, New York: Cornell University Press, 1985

Scott, Joan. *Feminism and History*. Oxford: Oxford University Press, 1996

***Issues in Women's Empowerment***

**Unit-I**

**Concept of Women's Empowerment**

- Meaning of empowerment
- Need, Importance and nature of Women's Empowerment and its socio-historical perspectives aspects of Women empowerment
- Problems in for women's development in society,
- Transition of women towards new millennium

**Unit-II**

**Status of Women at Present**

- Change in livelihood : Women's Economic activity rate
- Informal work and Women in employment
- Gender and Poverty alleviation
- Social safety for women

**Unit-III**

**Women and Empowerment**

- Women's Empowerment in political system at local, state and national level
- Women's participation at international level in their political systems
- Obstacles to women's empowerment
- Women and NGO

**Unit-IV**

**Trends of Women's Empowerment**

- Issues and perspectives of empowerment of Dalit, Tribal and Muslim women
- Gender budgeting
- Women and micro-finance
- Educational Facilities

**Recommended Readings:**

1. Anuradha Jaya, Women's Equality: a Struggle for Survival



2. Narayan Deepa , Employment and Poverty reduction: A Source Book
3. Gender equality and poverty reduction , Economic & Political Weekly, Oct. 29, 2005
4. Nitya Rao, Women's rights to land and Assets, Economic & Political Weekly, Oct. 19. 2005
5. Acharya Neena & Ghimmire Pushapa , Gender Indicators of Equality, Inclusion and Poverty reduction
6. World Report on violence and health , Geneva , WHO, 2002
7. Maitreyi Krishna Raj : Women and Development Shubhada Saraswat Prakashan  
Pune 1988.

#### **Paper-IV**

**Full Marks- 50**

***Writing a Term Paper.***

**Syllabus for Ph.D. course work in Zoology**  
**Department of Zoology**  
**Vidyasagar University, Midnapore-721 102**

<b>Course</b>	<b>Course Name</b>	<b>Marks</b>
<b>Course I</b>	<b>Basic Zoology</b>	<b>50</b>
<b>Course II</b>	<b>Applied Zoology</b>	<b>50</b>
<b>Course III</b>	<b>Research Methodology and Research Ethics</b>	<b>50</b>
<b>Course IV</b>	<b>Submission of assignment:</b> <b>a. Review of literature or data generated on the related research topic</b>	<b>40</b>
	<b>b. Power point presentation on a research topic</b> <b>OR</b> <b>Analysis of data using MS-Excel or statistical methods</b>	<b>10</b>
	<b>Total:</b>	<b>200</b>

# **Syllabus for Ph.D. course work in Zoology**

## **Course I: Basic Zoology**

1. Cloning Vector, YAC, BAC	3L
2. Genetic Diseases	3L
3. RFLP marker and its uses	3L
4. Limbic system	3L
5. Stress physiology	3L
6. Fish and Fisheries resources	3L
7. Classification Scheme of Fishes	3L
8. Aquaculture practices and Animal Nutrition	3L
9. Cells and organs involved in immune system	3L
10. Host-Parasite interaction	3L
11. Vector borne diseases and its management	3L
12. Bacterial Microbiology	3L
a. Fermentation -benefits, importance and types	
b. Quorum sensing	
13. Metapopulation	2L
14. T- cell and B-cell development	3L
15. Basic principle of ecosystem functioning: wetland, coast. Forest	3L
16. Environmental management with special reference to EIA	3L
17. Biodiversity and wildlife conservation	3L

## Course II: Applied Zoology

1. Advance electron microscopy	4L
2. Restriction mapping	4L
3. DNA fingerprinting	4L
4. ELISA, Immunohistochemistry	4L
5. Southern blotting hybridization	2L
6. Diagnosis of parasitic diseases	4L
7. Advance technology for the conservation and management of fisheries resources	4L
8. Bioinformatics tools	4L
9. Gene cloning: current perspective	4L
10. PCR: primer designing, methodology and applications	4L
11. Flow Cytometry: concepts and applications	4L
12. Genome editing by Crisper Cas9	4L
13. Biodiversity based biotechnology	4L

### **Course III: Research Methodology and Research ethics**

#### **A. Research Methodology: 25L**

1. Research definition, importance, meaning and characteristic. Steps in research.
2. Research problem: identification, selection and formulation
3. Sampling: definition, theory, types, techniques and steps. Sample size, advantage and limitation of sampling.
4. Data: definition, sources and types. Data collection method. Analysis of data
5. Review of literature and Bibliography
6. Research report: types, contents, styles and steps in drafting. Editing the final draft and thesis writing
7. Significance of Impact factor, citation index, SCI, H-index, SCOPUS

#### **Computer application: 15L**

1. Operating system: latest version of WINDOWS, LINUX
2. Database management system
3. Internet
4. Office management: MS-word, MS- Excel, MS-PowerPoint
5. Software packages: SPSS, R-statistics, MATLAB, EMBOS

#### **Statistics:**

1. Normal probability distribution
2. Test for goodness of fit for a proposed distribution
3. Correlation of coefficient: Simple linear, Multiple linear and partial
4. Regression: simple, multiple and stepwise

5. Experimental design. Analysis of variance: model, one or two way ANOVA. Multiple comparison tests

**B. Research ethics:**

**10L**

- Research and Publication Ethics (RPE)
- Awareness about the publication ethics and publication misconduct
- Pedagogy

**a. Theory:**

Philosophy and ethics

Scientific conduct

Publication ethics

**b. Practice:**

Open access publication

Publication misconduct

Database and Research metrics

## **Course IV: Submission of assignment**

1. A literature of review or data generated on the related research topic be submitted by each scholar duly signed and recommended by the supervisor (s)
2. Power point presentation on a researchable topic (Selected by Supervisor)
3. Analysis of data using MS-Excel or statistical methods



## Overview

Vidyasagar University, is a teaching and research institution performing research activities on animals, has established a well maintained state-of-the art Central Animal House Facility (CAHF) in Charles Darwin House, registered under the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA), Ministry of Environment and Forests, Govt. of India having registration number: 2013/GO/Re/S/18/CPCSEA Dated: 01/05/2018). The centre is engaged to serve the requirements on animal experimentation of various investigators from different departments in this university.

## Vision

Prudent use of animals in research plays a pivotal role in the development of basic research and animal lives.

## Mission

To carry out the basic scientific research and orient the new generation with the animal studies by accurately following the guidelines of Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA), Government of India. Central Animal House Facility is an indisputable wing of university to perform uninterrupted research in basic and clinical fields covering amelioration of human disease and disability, drug development, drug designing, toxicity assessment, improvement of our understanding regarding complex biological systems of human and animal physiology.

## Facilities

Central Animal House Facility is two storied building. There are surgical room, rat room, mice room, washing room, sterilizing room having autoclave, Co2 gas cylinder, changing or dressing room, office, quarantine room, surgical room is well equipped with euthanasia chamber and other facilities for animal sacrifice, store room for keeping animal feed extra cages and other things and one lavatory. Air conditions and air curtain are also available for mainta in temperature and freshness of the atmosphere in the house.

Each species of animals is housed in light and temperature, moisture maintained individual rooms to avoid disease transmission and inter-species conflicts. Animals are kept under controlled environmental conditions where temperature (22-26°C), relative humidity (50± 10 %), 12:12 hr light and dark cycle and uninterrupted power and water supply are maintained. Sterilization of cages, water bottles and disinfection of animal rooms are performed in regular basis. Moreover, periodical inspection takes place by IEAC experts and routine animal health check up by registered veterinary expert.

### **Institutional Animals Ethics Committee (IAEC)**


As per guideline of CPCSEA, Govt. of India, IAEC has been framed and its composition is mentioned below. Institutional Animals Ethics Committee advises the institution and teachers/researchers on facilities, practices and improvements in animal use and care.

### **Members**

1. **Main nominee of CPCSEA- Dr. Sarbani Hazra, Prof. Dept. Veterinary Surgery & Radiology, West Bengal University of Animal and Fishery Sciences, Kolkata.**
2. **Link nominee of CPCSEA- Dr. Sunit Kumar Mukhopadhyay, West Bengal University of Animal and Fishery Sciences, Kolkata.**
3. **Scientist from outside of the institute, CPCSEA nominated- Dr. Amit Pal, Scientist E, National Institute of Cholera and Enteric Diseases, Kolkata.**
4. **Socially aware nominee, CPCSEA nominated- Dr. Prasenjit Mandal.**
5. **Chairman of the committee- Dean of Science, Vidyasagar University, Prof. Satyajit Saha.**
6. **Two in-house members cum biological scientist,**
  - **Chandradipa Ghosh, Vidyasagar University.**
  - **Bidhan Patra, Vidyasagar University.**
7. **Veterinary expert- Dr. Tapan Kumar Manna.**
  - **Secretary of Institutional Animal Ethics Committee- Prof. Debidas Ghosh Vidyasagar University.**



← → vidyasagar.ac.in/CentreCell/IEC.aspx



বিদ্যাসাগর বিশ্ববিদ্যালয়

# VIDYASAGAR UNIVERSITY

## University Home

### All Centres / Cells

- National Service Scheme
- Computer Centre
- Centre for Continuing and Adult Education
- Cell C&A
- University Science Instrumentation Centre (USIC)
- Internal Complaints Committee (ICC)
- Institutional Ethics Committee
- SCSI COMPLAINTS CELL
- NAAC Cell
- Chemical Workshop
- Equal Opportunity Cell
- Intellectual Property Rights (IPR) Cell
- Vidyasagar University Innovation Centre
- Wardens/Residing Committee

### Research Centres

- Centre for Advanced Studies and Research
- Centre for Environmental Studies (CES)
- Centre for Life Sciences
- Women's Studies Centre
- Geological Survey Centre
- Central Observatory and Outreach Centre (COOC)

## Institutional Ethics Committee

### A. Constitution of Institutional Ethics Committee (IEC)

On the basis of Notification No. VU/IR-EC/08/1981 dated 08.12.2012, pertaining to re-constitution of the Human Ethics Committee and Animal Ethics Committee of Vidyasagar University, it is hereby notified again that pursuant to dated 01.04.2014 pertaining to re-constitution of the Institutional Ethics Committee (IEC) meeting two committees like Human Ethics Committee and Animal Ethics Committee, the Hon'ble Vice-Chancellor of this University has been pleased to re-constitute the Institutional Ethics Committee (IEC) of Vidyasagar University.

### B. Objective of Institution Ethics Committee (IEC)

The aim of the prevention of cruelty to animal (PCSA Act 1986) is to ensure for facilitating scientific research involving experiments on animal and transgressive work on human. The IEC will look after all the experiments involving animal and transgressive work on human by clearing and reviewing the research project proposed for each work. IEC will act as per guideline of IECSEA for animal work and ICNRP protocol for human non-transgressive experiment.

### C. Composition of Institution Ethics Committee (IEC)

- One Institute Biological Scientific as Chairman
- One Scientist-in-Charge of the Animal Facility and Member Secretary (In-house Biological Scientist)
- Two biological scientists from different biological discipline
- One structural experience
- One Medical officer/Physician
- Two scientist from outside of the Institute
- One specially aware person
- One IECSEA nominee
- One IECSEA nominee

### Important Forms & Proforma

- Information Form
- Form as per IECSEA for animal experiment
- Form as per human experiment

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Website Link : <https://www.vidyasagar.ac.in/CentreCell/IEC.aspx>



# VIDYASAGAR UNIVERSITY

P.O.: Vidyasagar University, Midnapore-721102, Dist.: Paschim Medinipur,  
West Bengal, INDIA.

Date: 30.01.2024

## NOTIFICATION

This is to notify for the general information of all concerned that as resolved in the IQAC Committee Meeting held on 07.06.2023, the Hon'ble Vice-Chancellor has been pleased to constitute the Committee for preparation of the *Animal Ethics Policy* of this University, consisting of the following members:

1. Professor Debidas Ghosh, Dept. of Biomedical Laboratory Science & Management, – Chairman
2. Professor Sujata Maiti (Choudhury), Dept. of Human Physiology,
3. Professor Debdulal Banerjee, Dept. of Botany & Forestry,
4. Dr. Biplab Mandal, Dept. of Zoology,
5. Professor Keshab Chandra Mondal, Dept. of Microbiology - Convener,

All concerned are being informed accordingly and requested to do the needful in this regard.  
This is being issued with the approval of the competent authority.

Sd/-  
Dr. J. K. Nandi  
Registrar

Memo No.:: VU/R/Noti./145/ 2024 Dated: 30.01.2024

Copy forwarded for information and necessary action to:

1. The Concerned Members of the Committees
2. The Senior Information Scientist for wide circulation in the University Website
3. The secretary to the Vice-Chancellor- for kind information to the Hon'ble Vice-Chancellor, VU
4. The Office Supdt, Registrars' Office,
5. Establishment Section



  
30/01/24

(Dr. J. K. Nandi)  
Registrar

Registrar  
VIDYASAGAR UNIVERSITY  
Midnapore – 721102, W.B.

Tele-Fax (03222) 298220, Fax: (03222) 275329,  
E-mail: registrar@mail.vidyasagar.ac.in

INDIAN COUNCIL OF MEDICAL RESEARCH

**Model form to be filled by the Principal Investigator (PI) for  
submission to Institutional Ethics Committee (IEC)**  
**(for attachment to each copy of the proposal)**

Serial No of IEC  
Management Office:

Proposal Title:

	Name, Designation & Qualifications	Address Tel & Fax Nos. Email ID	Signature
PI			
Co-PI / Collaborators			
1.			
2.			
3.			
Please attach detailed Curriculum Vitae of all Investigators (with subject specific publications limited to previous 5 years).			

***Tick appropriately***

**Sponsor Information :**

1. Indian	a) Government	<input type="checkbox"/>	Central	<input type="checkbox"/>	State	<input type="checkbox"/>	Institutional	<input type="checkbox"/>
	b) Private	<input type="checkbox"/>						
2. International	Government	<input type="checkbox"/>	Private	<input type="checkbox"/>	UN agencies	<input type="checkbox"/>		
3. Industry	National	<input type="checkbox"/>	Multinational	<input type="checkbox"/>				

**Contact Address of Sponsor:**

# INDIAN COUNCIL OF MEDICAL RESEARCH

**Total Budget :**

<b>1.Type of Study :</b>			
Epidemiological	<input type="checkbox"/>	Basic Sciences	<input type="checkbox"/> Animal studies <input type="checkbox"/>
Clinical:	Single center <input type="checkbox"/>	Multicentric	<input type="checkbox"/> Behavioral <input type="checkbox"/>
<b>2. Status of Review:</b>			
New	<input type="checkbox"/>	Revised	<input type="checkbox"/>
<b>3. Clinical Trials:</b>			
<b>Drug /Vaccines/Device/Herbal Remedies :</b>			
i. Does the study involve use of :			
Drug	<input type="checkbox"/>	Devices	<input type="checkbox"/> Vaccines <input type="checkbox"/>
Indian Systems of Medicine/ Alternate System of Medicine	<input type="checkbox"/>	Any other	<input type="checkbox"/> NA <input type="checkbox"/>
ii. Is it approved and marketed			
In India	<input type="checkbox"/>	UK & Europe	<input type="checkbox"/> USA <input type="checkbox"/>
Other countries, specify <input type="checkbox"/>			
iii. Does it involve a change in use, dosage, route of administration?		Yes	No
If yes, whether DCGI's /Any other Regulatory authority's Permission is obtained?		Yes	No
If yes, Date of permission :			
iv. Is it an Investigational New Drug?		Yes	No
If yes, IND No:			
a). Investigator's Brochure submitted		Yes	No
b). In vitro studies data		Yes	No
c). Preclinical Studies done		Yes	No
d). Clinical Study is : Phase I <input type="checkbox"/> Phase II <input type="checkbox"/> Phase III <input type="checkbox"/> Phase IV <input type="checkbox"/>			
e). Are you aware if this study/similar study is being done elsewhere ?		Yes	No
If Yes, attach details			
<b>4. Brief description of the proposal – Introduction, review of literature, aim(s) &amp; objectives, justification for study, methodology describing the potential risks &amp; benefits, outcome measures, statistical analysis and whether it is of national significance with rationale (Attach sheet with maximum 500 words):</b>			
<b>5. Subject selection:</b>			
i. Number of Subjects :			
ii. Duration of study :			
iii. Will subjects from both sexes be recruited		Yes	No

## INDIAN COUNCIL OF MEDICAL RESEARCH

iv.	Inclusion / exclusion criteria given	Yes	No
v.	Type of subjects      Volunteers <input type="checkbox"/>	Patients	<input type="checkbox"/>
vi.	Vulnerable subjects      Yes <input type="checkbox"/> No <input type="checkbox"/> (Tick the appropriate boxes) pregnant women <input type="checkbox"/> children <input type="checkbox"/> elderly <input type="checkbox"/> fetus <input type="checkbox"/> illiterate <input type="checkbox"/> handicapped <input type="checkbox"/> terminally ill <input type="checkbox"/> seriously ill <input type="checkbox"/> mentally challenged <input type="checkbox"/>  economically & socially backward <input type="checkbox"/> any other <input type="checkbox"/>		
vii.	Special group subjects      Yes <input type="checkbox"/> No <input type="checkbox"/> (Tick the appropriate boxes)  captives <input type="checkbox"/> institutionalized <input type="checkbox"/> employees <input type="checkbox"/> students <input type="checkbox"/> nurses/dependent <input type="checkbox"/> armed <input type="checkbox"/> any other <input type="checkbox"/> staff <input type="checkbox"/> forces <input type="checkbox"/>		
<b>6. Privacy and confidentiality</b>			
i.	Study involves -	Direct Identifiers <input type="checkbox"/> Indirect Identifiers/coded <input type="checkbox"/> Completely anonymised/ delinked <input type="checkbox"/>	
ii.	Confidential handling of data by staff	Yes	No
<b>7. Use of biological/ hazardous materials</b>		Yes	No
i.	Use of fetal tissue or abortus		
ii.	Use of organs or body fluids	Yes	No
iii.	Use of recombinant/gene therapy	Yes	No
	<b>If yes, has Department of Biotechnology (DBT) approval for rDNA products been obtained?</b>	Yes	No
iv.	Use of pre-existing/stored/left over samples	Yes	No
v.	Collection for banking/future research	Yes	No
vi.	Use of ionising radiation/radioisotopes	Yes	No
	<b>If yes, has Bhaba Atomic Research Centre (BARC) approval for Radioactive Isotopes been obtained?</b>	Yes	No
vii.	Use of Infectious/biohazardous specimens	Yes	No
viii.	Proper disposal of material	Yes	No
ix.	Will any sample collected from the patients be sent abroad ?	Yes	No
<b>If Yes, justify with details of collaborators</b>			
	a) Is the proposal being submitted for clearance from Health Ministry's Screening Committee (HMSC) for International collaboration?	Yes	No

# **INDIAN COUNCIL OF MEDICAL RESEARCH**

<p align="center">b) Sample will be sent abroad because (Tick appropriate box):</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 60%;"> <p>Facility not available in India</p> <p>Facility in India inaccessible</p> <p>Facility available but not being accessed</p> <p>If so, reasons...</p> </div> <div style="width: 30%;"> <input style="width: 20px; height: 20px;" type="checkbox"/>  <input style="width: 20px; height: 20px;" type="checkbox"/>  <input style="width: 20px; height: 20px;" type="checkbox"/> </div> </div>																																		
<p><b>8. Consent :</b>      *Written <input style="width: 20px; height: 20px;" type="checkbox"/>                      Oral <input style="width: 20px; height: 20px;" type="checkbox"/>                      Audio-visual <input style="width: 20px; height: 20px;" type="checkbox"/></p> <p>    i. Consent form : (tick the included elements)</p> <table style="width:100%; border: none;"> <tr> <td style="width: 40%;">Understandable language</td> <td style="width: 10%; text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> <td style="width: 40%;">Alternatives to participation</td> <td style="width: 10%; text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> </tr> <tr> <td>Statement that study involves research</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> <td>Confidentiality of records</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> </tr> <tr> <td>Sponsor of study</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> <td>Contact information</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> </tr> <tr> <td>Purpose and procedures</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> <td>Statement that consent is voluntary</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> </tr> <tr> <td>Risks &amp; Discomforts</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> <td>Right to withdraw</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> </tr> <tr> <td>Benefits</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> <td>Consent for future use of biological material</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> </tr> <tr> <td>Compensation for participation</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> <td>Benefits if any on future commercialization</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> </tr> <tr> <td>Compensation for study related injury</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> <td>eg. genetic basis for drug development</td> <td style="text-align: center;"><input style="width: 20px; height: 20px;" type="checkbox"/></td> </tr> </table> <p style="margin-top: 10px;">*If written consent is not obtained, give reasons:</p>			Understandable language	<input style="width: 20px; height: 20px;" type="checkbox"/>	Alternatives to participation	<input style="width: 20px; height: 20px;" type="checkbox"/>	Statement that study involves research	<input style="width: 20px; height: 20px;" type="checkbox"/>	Confidentiality of records	<input style="width: 20px; height: 20px;" type="checkbox"/>	Sponsor of study	<input style="width: 20px; height: 20px;" type="checkbox"/>	Contact information	<input style="width: 20px; height: 20px;" type="checkbox"/>	Purpose and procedures	<input style="width: 20px; height: 20px;" type="checkbox"/>	Statement that consent is voluntary	<input style="width: 20px; height: 20px;" type="checkbox"/>	Risks & Discomforts	<input style="width: 20px; height: 20px;" type="checkbox"/>	Right to withdraw	<input style="width: 20px; height: 20px;" type="checkbox"/>	Benefits	<input style="width: 20px; height: 20px;" type="checkbox"/>	Consent for future use of biological material	<input style="width: 20px; height: 20px;" type="checkbox"/>	Compensation for participation	<input style="width: 20px; height: 20px;" type="checkbox"/>	Benefits if any on future commercialization	<input style="width: 20px; height: 20px;" type="checkbox"/>	Compensation for study related injury	<input style="width: 20px; height: 20px;" type="checkbox"/>	eg. genetic basis for drug development	<input style="width: 20px; height: 20px;" type="checkbox"/>
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<p>ii. Who will obtain consent ?      PI/Co-PI <input style="width: 20px; height: 20px;" type="checkbox"/>                      Nurse/Counsellor <input style="width: 20px; height: 20px;" type="checkbox"/></p> <p style="margin-left: 100px;">Research staff <input style="width: 20px; height: 20px;" type="checkbox"/>                      Any other <input style="width: 20px; height: 20px;" type="checkbox"/></p>																																		
<p><b>9. Will any advertising be done for recruitment of Subjects ?</b> (posters, flyers, brochure, websites – if so kindly attach a copy)</p>	Yes	No																																
<p><b>10. Risks &amp; Benefits:</b></p> <p>    i. Is the risk reasonable compared to the anticipated benefits to subjects / community / country?</p>	Yes	No																																
<p>    ii. Is there physical / social / psychological risk / discomfort?</p> <p>        <b>If Yes,</b>    Minimal or no risk                      <input style="width: 20px; height: 20px;" type="checkbox"/></p> <p>                    More than minimum risk                      <input style="width: 20px; height: 20px;" type="checkbox"/></p> <p>                    High risk                      <input style="width: 20px; height: 20px;" type="checkbox"/></p>	Yes	No																																
<p>    iii. Is there a benefit a) to the subject ?</p> <p style="margin-left: 100px;">Direct <input style="width: 20px; height: 20px;" type="checkbox"/>                      Indirect <input style="width: 20px; height: 20px;" type="checkbox"/></p> <p style="margin-left: 100px;">b) Benefit to society                      <input style="width: 20px; height: 20px;" type="checkbox"/></p>																																		
<p><b>11. Data Monitoring</b></p> <p>    i. Is there a data &amp; safety monitoring committee/ Board (DSMB)?</p>	Yes	No																																
<p>    ii. Is there a plan for reporting of adverse events ?</p> <p>        <b>If Yes,</b> reporting is done to :</p> <p style="margin-left: 40px;">Sponsor <input style="width: 20px; height: 20px;" type="checkbox"/>                      Ethics Committee <input style="width: 20px; height: 20px;" type="checkbox"/>                      DSMB <input style="width: 20px; height: 20px;" type="checkbox"/></p>	Yes	No																																
<p>    iii. Is there a plan for interim analysis of data?</p>	Yes	No																																

# INDIAN COUNCIL OF MEDICAL RESEARCH

vi. Are there plans for storage and maintenance of all trial database? <b>If Yes, for how long ?</b>	Yes	No
<b>12. Is there compensation for participation?</b> <b>If Yes,</b> Monetary <input type="checkbox"/> In kind <input type="checkbox"/>  Specify amount and type:	Yes	No
<b>13. Is there compensation for injury?</b> <b>If Yes,</b> by Sponsor <input type="checkbox"/> by Investigator <input type="checkbox"/> by insurance <input type="checkbox"/> by any other <input type="checkbox"/> company	Yes	No
<b>14. Do you have conflict of interest?</b> <b>(financial/nonfinancial)</b> <b>If Yes, specify :</b>	Yes	No
<b>Checklist for attached documents:</b>  <div style="display: flex; justify-content: space-between;"> <div> Project proposal – 20 Copies  Curriculum Vitae of Investigators  Brief description of proposal  Patient information sheet  Informed Consent form  Investigator’s brochure for recruiting subjects  Copy of advertisements/Information brochures  Copy of clinical trial protocol and/or questionnaire  Institutional Ethics Committee clearance  Institutional Animal Ethics Committee clearance  CPCSEA clearance, if any  HMSC/DCGI/DBT/BARC clearance if obtained </div> <div style="display: flex; flex-direction: column; align-items: center;"> <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/> </div> </div>		

Place:  
Date:

Signature & Designation of PI/Co-PI/Collaborator

# INDIAN COUNCIL OF MEDICAL RESEARCH

## Institutional Ethics Committee

### Model Form to be filled by Reviewers

**Serial No of IEC Management Office:**

**Proposal Title:**

**Principal Investigator:**

**Co-investigator:** 1.  
2.  
3.

**Supporting Agency:** ICMR/ non ICMR

If non ICMR, name of agency:

**Project Status:** New ☐ Revised ☐

**Review:** Regular ☐ Interim ☐

**Date of Review:**

### 1. Research Design

- |      |  |                              |                             |
|------|--|------------------------------|-----------------------------|
| i.   | Scientifically sound enough to expose subjects to risk | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| ii.  | Relevant to contribute to further knowledge            | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| iii. | Of national importance                                 | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

### 2 Risks

- |    |   |                                     |                                       |
|----|---|-------------------------------------|---------------------------------------|
| a. | Is there physical/social/psychological risk/discomfort? | Yes <input type="checkbox"/>        | No <input type="checkbox"/>           |
| b. | Is the overall risk/benefit ratio                       | Acceptable <input type="checkbox"/> | Unacceptable <input type="checkbox"/> |

### 3 Benefits

Direct:	Reasonable <input type="checkbox"/>	Undue <input type="checkbox"/>	None <input type="checkbox"/>
Indirect:	Improvement in science/knowledge <input type="checkbox"/>	Any other <input type="checkbox"/>	



## INDIAN COUNCIL OF MEDICAL RESEARCH

### 4 Subject selection :

- i Inclusion / exclusion criteria addressed? Yes ☐ No ☐
- ii Vulnerable subjects (woman, child, mentally challenged, seriously or terminally ill, foetus, economically or socially backward and healthy volunteers) adequately protected ? Yes ☐ No ☐
- iii. Special group subjects (captives, students, nurses & dependant staff) adequately protected? Yes ☐ No ☐

### 5 Privacy & Confidentiality maintained?

Yes ☐ No ☐

### 6 Patient Information Sheet:

Adequate ☐ Inadequate ☐

### 7. Consent form components addressed adequately?

Yes ☐ No ☐

### 8. Compensation, (if applicable) addressed adequately?

Yes ☐ No ☐

### 9. Is there a Conflict of Interest?

Yes ☐ No ☐

If yes,

Acceptable ☐ Unacceptable ☐

### 10. Budget:

Appropriate ☐ Inappropriate ☐

### 11. Decision of review

Recommended ☐

Recommended with suggestions ☐

Revision ☐

Rejected ☐

Any other remarks/suggestions:

Reviewer's name and Signature

**INDIAN COUNCIL OF MEDICAL RESEARCH**

**Communication of Decision of the Institutional Ethics Committee(IEC)/  
Institutional Review Board(IRB)**

**IEC/IRB No:**

Protocol title:
Principal Investigator:
Name & Address of Institution:
<input type="checkbox"/> New review <input type="checkbox"/> Revised review <input type="checkbox"/> Expedited review
Date of review (D/M/Y):
Date of previous review, if revised application:
Decision of the IEC/ IRB:  <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Recommended</div><div><input type="checkbox"/> Recommended with suggestions</div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Revision</div><div><input type="checkbox"/> Rejected</div></div>
Suggestions/ Reasons/ Remarks:
Recommended for a period of :

**Please note \***

- **Inform IEC/IRB immediately in case of any Adverse events and Serious adverse events.**
- **Inform IEC/IRB in case of any change of study procedure, site and investigator**
- **This permission is only for period mentioned above. Annual report to be submitted to IEC/IRB.**
- **Members of IEC/IRB have right to monitor the trial with prior intimation.**

Signature of Member Secretary  
IEC/IRB



# Institutional Ethics Committee

## Vidyasagar University, Midnapore- 721102

---

Ref. No.....

Date:

.....

To

Prof./ Dr. ....

.....

.....

This is reference to your application for consideration of the Institutional Ethics Committee of the ..... study ..... entitled

“.....

.....

.....

.....”, it is hereby informed that the committee after careful consideration approved you to undertake the proposed study (for Community based study/ Animal experimental study/ Human sample related experimental study) at Vidyasagar University, Midnapore having approval No.....dated.....

You are instructed to report immediately any untoward incident if happened during any point of your study to the Institutional Ethics Committee.

\_\_\_\_\_  
**Chairman**

**Institutional Ethics Committee  
Vidyasagar University, Midnapore**

\_\_\_\_\_  
**Secretary**

**Institutional Ethics Committee  
Vidyasagar University, Midnapore**

Form B (per rule 8(a)\*)

## **APPLICATION FOR PERMISSION FOR ANIMAL EXPERIMENTS**

Application to be submitted to the CPCSEA, New Delhi after approval of Institutional Animal Ethics Committee (IAEC)

### **Part A**

1. Name and address of establishment
2. Registration number and date of registration.
3. Name, address and registration number of breeder from which animals acquired (or to be acquired) for experiments mentioned in parts B & C
4. Place where the animals are presently kept (or proposed to be kept).
5. Place where the experiment is to be performed (Please provide CPCSEA Reg. Number)
6. Date on which the experiment is to commence and duration of experiment.
7. Type of research involved (Basic Research / Educational/ Regulatory/ Contract Research )

Signature

Name and Designation of  
Investigator

Date:

Place:

---

\*The filled in Form B having above information / details / supporting documents (1 original + 14 copies and 1 soft copy in CD) should be sent to: -

The Member Secretary,  
CPCSEA, Ministry of Environment, Forests & Climate Change  
5<sup>th</sup> Floor, Vayu Wing,  
Indira Paryavaran Bhawan  
Ali Ganj, Jor Bagh Road,  
New Delhi-110 003

## **PART B**

**Protocol from for research proposals to be submitted to the committee / Institutional Animal Ethics Committee, for new experiments or extensions of ongoing experiments using animals other than non-human primates.**

1. Project / Dissertation / Thesis Title:
2. Principal Investigator / Research Scholar / Research Guide / Advisor:
  - a. Name
  - b. Designation
  - c. Dept / Div/ Lab
  - d. Telephone No.
  - e. Experience
3. List of names of all individuals authorized to conduct procedures under this proposal.
  - Co-guides
  - a. Name
  - b. Address
  - c. Experience
4. Funding source with complete address (Please attach the proof)
5. Duration of the project
  - a. Number of months
  - b. Date of initiation (Proposed)
  - c. Date of completion (Proposed)
6. Detailed study plan may be given (Not more than one page)

7. Animals required

- a. Species / Common name
- b. Age/ weight/ size
- c. Gender
- d. Number to be used (Year-wise breakups and total figures needed to be given)
- e. Number of days each animal will be housed.
- f. Proposed source of animals.

8. Rationale for animal usage

- a. Why is animals usage necessary for these studies?
- b. Why are the particular species selected required?
- c. Why is the estimated number of animals essential?
- d. Are similar experiments conducted in the past? If so, the number of animals used and results obtained in brief.
- e. If yes, why new experiment is required?
- f. Have similar experiments been made by any other organization agency ? If so, their results in your knowledge.

9. Description the procedures to be used.

List and describe all invasive and potentially stress full non-invasive procedures that animals will be subjected to in the course of the experiments.

Furnish details of injections schedule

Substances :

Doses :

Sites :

Volumes :

Blood withdrawal

Volumes :

Sites :

Radiation (dosage and schedules):

10. Please provide brief descriptions of similar studies from invitro / invivo (from other animal models) on same / similar test component or line of research. If, enough information is available, justify the proposed reasons.

11. Does the protocol prohibit use of anesthetic or analgesic for the conduct of painful procedures (any which cause more pain than that associated with routine injection or blood withdrawal)? If Yes, explanation and justification.

12. Will survival surgery be done?

If Yes, the following to be described.

- a. List and description of all such surgical procedures (including methods of asepsis)
- b. Names, qualifications and experience levels of operators
- c. Description of post-operative care
- d. Justification in major survival surgery is to be performed more than once on a single individual animals.

13. Methods of disposal post-experimentation

a. Euthanasia (Specific method):

b. Method of carcass disposal :

c. Rehabilitation :

14. Animal transportation methods if extra-institutional transport is envisaged.

15. Use of hazardous agents (use of recombinant DNA-based agents or potential human pathogens requires documented approval of the Institutional Biosafety Committee (IBC). For each category, the agents and the biosafety level required, appropriate therapeutic measures and the mode of disposal of contaminated food, animal wastes and carcasses must be identified)

- (a) Radionuclides
- (b) Microorganisms / Biological infectious Agents
- (c) Hazardous chemicals or drugs
- (d) Recombinant DNA
- (e) Any other (give name)

If, your project involved use of any of the above, attach copy of the minutes of IBC granting approval.

**Investigator's declaration.**

1. I certify that I have determined that the research proposal herein is not unnecessarily duplicative of previously reported research.
2. I certify that, I am qualified and have experience in the experimentation on animals.
3. For procedures listed under item 11, I certify that I have reviewed the pertinent scientific literature and have found no valid alternative to any procedure described herein which may cause less pain or distress.
4. I will obtain approval from the IAEC/ CPCSEA before initiating any significant changes in this study.
5. Certified that performance of experiment will be initiated only upon review and approval of scientific intent by appropriate expert body (Institutional Scientific Advisory Committee / funding agency / other body (to be named)).
6. Institutional Biosafety Committee's (IBC) certification of review and concurrence will be taken (Required for studies utilizing DNA agents of human pathogens).
7. I shall maintain all the records as per format (Form D)
8. I certify that, I will not initiate the study unless approval from CPCSEA received in writing. Further, I certify that I will follow the recommendations of CPCSEA.
9. I certify that I will ensure the rehabilitation policies are adopted.

Signature

Name of Investigator

Date:



**Certificate**

This is certify that the project title .....  
.....  
has been approved by the IAEC.

Name of Chairman/ Member Secretary IAEC:

Name of CPCSEA nominee:

**Signature with date**

**Chairman/ Member Secretary of IAEC:** **CPCSEA nominee:**

(Kindly make sure that minutes of the meeting duly signed by all the participants  
are maintained by Office)



*Office of the Registrar*  
**VIDYASAGAR UNIVERSITY**  
Midnapore – 721 102

Dated : 21.08.2018.

**NOTIFICATION**

I have been directed by the Hon'ble Vice-Chancellor to notify for general information of all concerned that a Research Policy on code of ethics to check malpractices and plagiarism in research has been adopted by the appropriate authorities of the University, which will work as a broad outline for conduct and promotion of various kind if ethics in research for all the research students as well as the faculty members. The Policy contains all the existing ethics.

It has also been directed to notify for general information that as recommended by the Board of Research Studies of Vidyasagar University in its meeting held on 08.06.2017 and duly approved by the Eighth Executive Council of Vidyasagar University in its meeting held on 12.07.2017, a Plagiarism Software has been introduced in this University to check the Ph.D. thesis of the incumbents concerned writing in English Language only. It has also been directed to notify that as recommended by the Board of Research Studies of Vidyasagar University in its meeting dated 17.08.2017 duly approved by the Eighth Executive Council of Vidyasagar University in its meeting held on 28.08.2017, the existing method for submission of Ph.D. thesis will be followed in case of the thesis which are writing other than English Language, like Bengali, Hindi, Sanskrit and Santali Languages as the Plagiarism checking software is not available on those versions/subjects, along with an undertaking prescribed by the University attached herewith.

The Ph.D. research scholars of Vidyasagar University those who are writing his/her thesis in English and ready for submission of the said thesis to the University are requested to submit the soft copy of the thesis/dissertation (e-Thesis) along with the duly filled-in format [Annexure-I (Thesis/Dissertation Authentication Certificate), Annexure – II (Thesis/Dissertation Metadata Form) and Annexure – III (Consent Form for Digital Archiving)] prescribed by the University attached herewith in a CD/DVD on or before one month from the date of submission of thesis to the Ph.D. Cell of Vidyasagar University for plagiarism checking of their thesis henceforth. The plagiarism checking of the thesis will be made as per the guidelines framed by the Plagiarism Sub-Committee constituted for this purpose and a summary report will be sent to the Supervisor of the candidates concerned in this regard for further process.

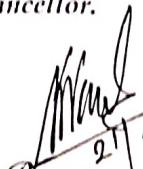
All concerned related with the Ph.D. Programme are being informed accordingly. The decision taken by the Executive Council of Vidyasagar University will come into force with immediate effect.

Sd/-  
Dr. J. K. Nandi.  
*Registrar.*

Memo No. : VU/R/Noti./947/2018 dated 21.08.2018.

Copy forwarded for information and necessary action to :

01. The Deans of the faculty concerned.
02. The Head of all academic and administrative departments with a request to circulate the notification among all Ph.D. Research Scholars of his/her department.
03. The Director (Actg.), DDE.
04. The Finance Officer.
05. The Information Scientist – for display on the University website.
06. The Office Supdt., Registrar's Office.
07. The Secretary, V.U.R.S.A.
08. The Secretary to the Vice-Chancellor for kind information of the Hon'ble Vice-Chancellor.
09. Shri Susanta Kumar Ghorai, Ph.D. Cell.
10. Relevant Ph.D. file.

  
21/08/18  
*Registrar*  
Registrar  
Vidyasagar University  
Midnapore - 721102  
West Bengal, India

*Annexure-I*

Vidyasagar University

**Thesis/Dissertation Authentication Certificate**

<b>Name of the Author (Research Scholar)</b>	
<b>Registration Number</b>	
<b>E-mail ID &amp; Contact No.</b>	
<b>Degree</b>	
<b>Department/Centre</b>	
<b>Guide/Supervisor</b>	
<b>Thesis/Dissertation Title</b>	
<b>Date of Submission</b>	

1. I hereby certify that the Ph.D thesis/dissertation contained in this CD/DVD is in accordance with the guidelines issued by Vidyasagar University for this purpose and complete in all respect. It is also certified that the contents of the electronic version of the thesis/dissertation submitted herewith are the same as that submitted as the final hardcopy of the thesis.
2. I hereby certify that my thesis is my original work and its copyright vests on me, it does not infringe or violet the rights of anyone else.

**Signature of the Scholar**

Place :

Date :

*Annexure-II*

**Vidyasagar University**  
**Thesis/Dissertation Metadata Form**

1.	Title	
2.	Alternative Title, if any	
3.	Name of Research Scholar	
4.	Registration Number	
5.	Name of Guide/Supervisor(s)	1. 2. 3.
6.	Degree	
7.	Department/Centre	
8.	School	
9.	Date of Submission	
10.	Subject Keywords	1. 2. 3. 4. 5.
11.	Coverage (for time periods or spatial regions only)	
12.	Language of the thesis	
13.	File Format of thesis and accompanying material, if any (PDF, MPEG, etc.)	

**Annexure-III**  
**Vidyasagar University**  
**Consent Form for Digital Archiving'**

<b>Name of the Author</b> (Research Scholar)	
<b>Registration Number</b>	
<b>Degree</b>	
<b>Department/Centre</b>	
<b>Guide/Supervisor(s)</b>	
<b>Thesis/Dissertation Title</b>	
<b>Date of Submission</b>	

1. I hereby give my consent to the Central Library of Vidyasagar University, Midnapore to archive and to make available my thesis / dissertation in whole or in part in the University's Electronic Thesis and Dissertations (ETD) Archive and to make it accessible worldwide under the conditions specified below in all forms of media, now or here after known.
2. I retain all other ownership rights to the copyright of the thesis/dissertation. I also retain the right to use in future works (such as articles or books) all or part of this thesis or dissertation.

**Conditions:**

[The University consider that there may be patentable intellectual property requiring restrictions on public access. Requests for restriction for a period of up to maximum 3 years must be specified by the scholar explicitly. However, the digital contents (restricted access) on Institutional Repository will be available immediately after the award of Degree]

1. Release the entire work for worldwide access immediately	
2. Release the entire work for worldwide access after – (In case of patentable intellectual property)	1 Year
	2 Years
	3 Years

**Signature of the Scholar**

Place :

Date :

**Signature & Seal of the Guide**



## Declaration

( For those Research Scholars whose arc writing thesis in other than English Language)

Title of the thesis :

Submitted by :

Supervisor(s) :

Registration No :

With reference to the thesis mentioned above I/we, hereby jointly certify that I/we have thoroughly cross checked the dissertation. I/We, hereby confirm that plagiarism material in the dissertation is restricted up to 25% of the entire manuscript or less. I/We shall be responsible for any discrepancy or complications which may arise in future regarding the said thesis.

(Signature of the candidate)

Name :

Present correspondence address:

-----

-----

Cell No. :

e-mail address :

Countersigned by Supervisor(s) :

Name :

Present correspondence address:

-----

-----

Cell No. :

# FORMATION OF THESIS IN HARD COPY AS WELL AS SOFT COPY

## Annex -1

Sample naming conventions used for a thesis submitted by the researcher "Seshan, K S is given" in Table no -1

01_title.pdf	Title Page
02 _ certificate.pdf	Certificate
0.3 _abstract.pdf	Abstract
04 _declaration.pdf	Declaration
05 _acknowledgement.pdf	Acknowledgement
06 _contents.pdf	Content/Index page
07 _list_of _tables.pdf	List of Tables
08.list __ of __ figures.pdf	List of Figures
09 _abbreviations.pdf	Abbreviations
10 _chapter1.pdf	First Chapter
11 chapter2.pdf	Second Chapter
12 _chapter_.....	Chapter.....
13 _ conclusion	Conclusion
14 _summary	Summary
15 _ bibliography	Bibliography

Table 1: Naming Convention used for each PDF File



**VIDYASAGAR UNIVERSITY**  
**Midnapore**

REGULATIONS  
Relating to  
THE DEGREE OF DOCTOR OF PHILOSOPHY(Ph. D.)  
IN ARTS, COMMERCE AND SCIENCE

(as per UGC Regulations, 2016)

**Introduction**

The Ph.D. (Doctor of Philosophy) Programme of the university is intended towards the achievement of new insights, new findings, conclusions and new methods of analysis of relationships. The Ph.D. degree shall be awarded to a candidate on the basis of original contributions incorporated in his/her thesis, adjudicated and recommended by a Board of Experts and successfully defended by the candidate in a Viva-Voce.

**1. TITLE AND COMMENCEMENT**

- 1.1 These Regulations may be called 'Regulations Relating to the Degree of Doctor of Philosophy (Ph.D.) in Arts, Commerce and Science, 2016' or the 'Ph.D. Regulations, 2016.'
- 1.2 These Regulations shall come into effect from the date of CSR Notification issued by the university and shall apply to all such cases coming under the purview of Vidyasagar University and covered by these Regulations, 2016.
- 1.3 'Research Scholar' shall mean and also be known as a student or a candidate engaged in research with or without scholarship and registered as such by the appropriate authority under these Regulations.
- 1.4 Notwithstanding anything contained in these Regulations, modifications and regulations received from the UGC from time to time in this regard shall be applied and incorporated suitably in these Regulations with necessary notifications.

**2. BOARD OF RESEARCH STUDIES**

- 2.1 The Ph.D. Programme of the university shall be monitored by the Executive Council through the Board of Research Studies constituted for a period of four years in each of the faculties.
- 2.2 The Board of Research Studies (BRS) in each of the faculties shall consist of:
  - (i) The Vice-Chancellor – Chairman
  - (ii) The Dean of the Faculty concerned – Vice-Chairman
  - (iii) Two Senior Professors of the Faculty concerned to be nominated by the Executive Council
  - (iv) Two outside experts (not below the rank of Professor) to be nominated by the Vice-Chancellor.
  - (v) The Registrar – Secretary
  - (vi) The Secretary, Faculty Councils for P.G. Studies – Joint Secretary
- 2.3: Under the overall supervision and guidance of the Vice-Chancellor, a joint meeting of the Board of Research Studies shall be held at least thrice a year to make policy decisions for planning, promoting, coordinating and monitoring research activities at the university. Each of the Board of Research Studies shall meet at least twice in a year to review the progress and execute the plans and programmes for realizing the objectives. The programme for organizing Course Work and related matters thereof shall be decided at such joint meetings of the Board of Research Studies.



**2.4** Without prejudice to the following regulations, Acts, Ordinances and Statutes, the respective Board of Research Studies shall discharge the following functions for smooth and effective implementation of the Ph.D. Programme of the University:

- (i) Review the progress of research activities of the research scholars at the university on the basis of reports submitted by the respective Ph.D. Committee at an interval of six months;
- (ii) Consider names of institutions or research organizations and recommend to the Executive Council for their recognition by the university;
- (iii) Consider the prayer for re-registration and make necessary recommendations;
- (iv) Consider reports of examination/adjudication and make suitable recommendations to the Vice-Chancellor in case of rejection of a thesis as mentioned herein under; and,
- (v) Deal with all such matters as may be referred to it by the Vice-Chancellor for advice and /or by the Ph.D. Committees for direction from time to time.

### **3. Ph. D. COMMITTEE**

**3.1** There shall be a Ph.D. Committee in each of the Post-graduate Departments of the university to implement the programme, which shall include:

- (i) The Vice-Chancellor-Chairman
- (ii) The Dean of the Faculty to which the Post-Graduate Department belongs – Vice-Chairman
- (iii) The Head of the concerned Post-Graduate Department
- (iv) Three teachers of the concerned department / concerned Faculty not below the rank of Associate Professor (to be decided by the concerned Departmental Committee)
- (v) Two experts, not below the rank of Professor of a university or institute of higher learning or scholar of eminence from outside the Vidyasagar University to be nominated by the Vice-Chancellor out of a panel of five experts recommended by the Departmental Committee.

**3.2** The Head of the Post-Graduate Department concerned shall act as the Secretary of the Ph.D. Committee. The Supervisor(s) concerned shall be invited to participate as invitee member(s) without voting right in connection with the supervision work of the scholar(s) concerned.

A Ph.D. Committee shall function for a term of four years from the date of its constitution. In case of any vacancy in the position(s) referred to in sub-clause (v) of Rule 3.1, the same procedure as specified here above shall be adopted to fill in the vacancy within a period of three months.

The presence of 50% of the members in a meeting of the Ph. D. Committee including at least one external expert but excluding the supervisor(s), invitee members, shall constitute the quorum.

Provided that the presence of external members in a meeting shall not be mandatory for consideration of routine matters like determination of number of available positions /seats in a year, scrutiny of application forms, organizing Entrance Test, finalization of panel including merit list, and preparation of list of paper setters, moderators and examiners for Entrance Test and Semester (end) Examinations.

- (ii) In absence of the Vice-Chancellor, the Dean of the Faculty concerned shall chair the meeting. In absence of both the Vice Chancellor and the Dean, the members shall select a Chairman not below the rank of a Professor from amongst themselves.
- (iii) The Ph. D. Committee shall meet at quarterly intervals in a year or more frequently, if necessary.

### **3.3 The functions of the Ph.D. Committee shall be:**

- (i) To recommend the number of seats available in the department for Ph.D. Programme under (a) University Research Scholarships/Fellowships, (b) without Fellowships in a year before the commencement of an academic session to the respective Board of Research Studies for publication of notification in the university website and in national dailies;
- (ii) To consider the applications for admission to the Ph.D. Programmes after proper scrutiny and prepare a list of eligible candidates and to organize the written Entrance Test and Interview thereafter for admission to the programme as announced at the time of determining the number of available positions for doing Ph.D. in a year;
- (iii) To decide the allocation of a Supervisor for a selected student in consideration of the proposed topic for research and the available specialization in a department concerned.
- (iv) To prepare a panel including merit list after the Entrance Test and Interview of the candidates and to recommend such names to the Registrar for admission into the programme;
- (v) To recommend the change of supervisor in case of death of the Supervisor or for other reasons, if it is satisfied that the change is necessary only on academic ground;
- (vi) To prepare and recommend a list of adjudicators for adjudication of the thesis to the Vice-Chancellor;
- (vii) To discharge such functions and responsibilities as may be entrusted to it by the Vice-Chancellor or the Board of Research Studies from time to time.
- (viii) To consider the applications of the college teachers affiliated to Vidyasagar University who are willing to act as supervisors. For consideration of such applications, the PhD committee must evaluate the previous research activities that will be supported by proven research publications.

### **4. ALLOCATION OF SUPERVISOR**

#### **4.1 The Supervisor can be allocated from :**

- (i) Any regular Professor of Vidyasagar University with at least five research publications in refereed journals and any regular Associate/Assistant Professor of the university with a Ph.D. degree and at least two research publications in refereed journals may be recognized as Research Supervisor.

Provided that in areas/disciplines where there is no or only a limited number of refereed journals, the Board of Research Studies, on recommendation of the concerned Ph. D. committee, may relax the above condition for recognition of a person as Research Supervisor with reasons recorded in writing.

- (ii) Only a full time regular teacher of Vidyasagar University can act as a supervisor. The external supervisors are not allowed. However, Co-Supervisor can be allowed in inter-disciplinary areas from other departments of the same institute or from other related institutions with the approval of the Board of Research Studies

- (iii) The allocation of Research Supervisor for a selected research scholar shall be decided by the Ph.D. Committee concerned depending on the number of scholars per Research Supervisor, the available specialization among the Supervisors and research interests of the scholars as indicated by them at the time of interview/*viva voce*.

- (iv) In case of topics which are of inter-disciplinary and / or specialized in nature where the Department concerned feels that the expertise in the Department has to be supplemented from outside, the Department may appoint a Research Supervisor from the Department itself, who shall be known as the Research Supervisor, and a Co-Supervisor from outside the Department/

Faculty/College/Institution on such terms and conditions as may be specified and agreed upon by the consenting Institutions/Colleges.

(v) A Research Supervisor/Co-supervisor who is a Professor or Associate Professor, at any given point of time, cannot guide more than 8 (eight) Ph.D. scholars. An Assistant Professor as Research Supervisor can guide up to a maximum of 4 (four) Ph.D. scholars.

The maximum limit of intake stated above includes the registered students of other university/institute (if any) under concerned supervisor.

(vi) In case of relocation of an Ph.D. woman scholar due to marriage or otherwise, the research data shall be allowed to be transferred to the University to which the scholar intends to relocate provided all the other conditions in these regulations are followed in letter and spirit and the research work does not pertain to the project secured by the parent institution/ supervisor from any funding agency. The scholar will however give due credit to the parent guide and the institution for the part of research already done.

(vii) A teacher of a college, affiliated to Vidyasagar University, may also act as a supervisor, if he/she fulfils the following criteria : (1) he / she must be a permanent teacher of the college, (2) he / she must have doctoral degree, (3) he / she must have at least three years experience in teaching as a permanent teacher, (4) continuous research activities for the last three years with proven publications (at least three publications in journal with peer review system or ISSN number, book with ISBN number, report, patent, etc.).

viii) A permanent teacher holding full time substantive position for at least 3 years of an affiliated college under Vidyasagar University may supervise not more than two scholars at a time. The matter will be decided by the concerned Ph. D. Committee and the Board of Research Studies.

(ix) After successful pre-submission seminar given by a candidate registered under a supervisor, one position for registration will be treated as vacant under the same supervisor.

**4.2** One who has enrolled himself / herself as a scholar for doing Ph.D. work at this university or elsewhere, shall not be eligible to act as a Supervisor.

**4.3** The allocation of Supervisor for a selected student shall be decided by the Ph.D. Committee in a meeting in consideration of the proposed topic for research vis-à-vis the available specialization among the eligible faculties.

**4.4** While deciding the allocation of the Supervisor for a candidate, due emphasis shall be given to the research interests and preferences as indicated during interview by the candidate.

## **5. ELIGIBILITY FOR ADMISSION**

**5.1** An application for admission to the Ph.D. Programme of the university shall be made to the Registrar within the stipulated date in the prescribed form along with two copies of photographs and self attested copies of testimonials of the candidate.

**5.2** A person who has obtained Master's Degree or a degree deemed equivalent from any university or institution recognized by this university or such other degree as may be considered sufficient for this purpose shall also be eligible for admission, if obtained at least 55% (General Category), or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed), 50% (for SC, ST, OBC-A, OBC-B, Differently able Categories) marks or its equivalent grade

Provided that –

- (i) a candidate who has completed at least a total of 5 years in UG and PG study in a recognized institution or university;
- (ii) the candidate is not currently admitted as a student in any full-time course of studies or registered for doing Ph.D. in any university;
- (iii) a candidate who has regular M.Phil./ M.Tech./ or a degree deemed to be equivalent by the Board of Research Studies (on the recommendation of the Ph.D. Committee concerned) shall be exempted from appearing at the Written Admission Test for this purpose and will have to appear only at an interview to be conducted by the Ph.D. Committee;
- (iv) Candidates qualified at the NET / GATE / SET / UGC (JRF) / CSIR (JRF) or any other examinations that considered equivalent by the BRS shall also be exempted from appearing at the Written Admission Test and will have to appear at an interview.
- (v) In all other cases, the candidates will have to appear at the Written Admission Test and if qualified, have to appear at an interview to be conducted by the respective Ph.D. Committee. Provided that the candidates obtaining 50% marks at the Written Admission Test shall be eligible to appear at the interview.
- (vi) Final semester PG students are eligible to apply for the Ph.D Programme provided that they fulfill the above requirements during admission.

**5.3** The Written Admission Test shall be conducted for 100 marks. The syllabus of the Entrance Test shall consist of 20% of research methodology and 80% shall be subject specific. The Interview shall be held for 50 marks and the merit list shall be prepared taking into consideration only the scores at the interview.

**5.4** During interview / viva-voce the candidates are required to discuss their research interest/area before the departmental Ph. D. Committee. The committee shall consider whether a) the candidate possesses the competence for the proposed research, b) the research work can be suitably undertaken at the Institution and c) the proposed area of research can contribute to new/additional knowledge

**5.5** The reservation policy of the Government with regard to admission into Post-graduate Courses shall be followed in admitting the students into Ph.D. Programmes.

**5.6** Those candidates who qualify at the Admission Test and or Interview (as the case may be) shall be eligible for admission against available seats / positions within one year from the date of publication of the Merit List after which the validity of the merit list shall be deemed to have expired.

**5.7** The Written Admission Test will be conducted by the respective departments following the academic calendar (see **5.12**). The information for PhD admission will be available from the office of the respective Departments or the University website.

**5.8** The result of the Written Admission Test shall remain valid for two years and the qualified candidates shall be required to appear at the interview only, if they desire admission.

**5.9** In case of any dispute relating to the conduct of Admission Test, Interview and publication of merit list thereof, the decisions of the Vice-Chancellor shall be final and binding on all concerned.

**5.10** Candidates who have cleared the M.Phil. course work with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) and successfully completing the M. Phil. Degree shall be eligible to proceed to do research work leading to the Ph. D. Degree in the same Institution in an integrated programme. A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/OBC- A / OBC-B /differently-able person..

**5.11** A person whose M.Phil. dissertation has been evaluated and the viva voce is pending may be admitted to the Ph.D. programme of the same Institution.

### **5.12 Academic Calendar**

Every department should arrange for the admission of the Research Scholars once a year (1<sup>st</sup> session as shown in the table below). Especially for funded research (like, Rajib Gandhi Fellowship, Moulana Azad Fellowship, INSPIRE Fellowship etc) the Departments may arrange an admission for 2<sup>nd</sup> time in the same year. The admission for special cases stated above should be held in the second session as shown in the table below. The academic calendar for the admission of Research Scholars is given below.

Items	1 <sup>st</sup> session	2 <sup>nd</sup> Session
Advertisement	April 3 <sup>rd</sup> week	October 3 <sup>rd</sup> week
Last Date of Application	May 3 <sup>rd</sup> week	November 3 <sup>rd</sup> week
Publication of Eligible Applicants List	May 4 <sup>th</sup> week	November 3 <sup>rd</sup> week - December 1 <sup>st</sup> week
Entrance Test and Merit List for Interview	June 3 <sup>rd</sup> week – July 4 <sup>th</sup> week	December 3 <sup>rd</sup> - 4 <sup>th</sup> week
Interview and publication final merit list	July 1 <sup>st</sup> week - August 1 <sup>st</sup> week	January 1 <sup>st</sup> - 2 <sup>nd</sup> week
Admission , Submission of Ph.D. proposal , Pre-registration seminar, commencement of course work	July 2 <sup>nd</sup> week - September 1 <sup>st</sup> week	January 3 <sup>rd</sup> – 4 <sup>th</sup> week

**5.13** Candidates selected for the Ph.D. Programme shall be required to pay a non-refundable Admission Fee as decided by the university authorities. The admitted students will be eligible for attending the Ph.D. Course Work (see Regulation 8)

### **6.0 Duration of the Programme:**

- Ph.D. programme shall be for a minimum duration of three years, including course work and a maximum of six years. The candidates can apply for early submission (before three years after registration) to the Vice-Chancellor, if required, through the Supervisor(s).
- Extension beyond the above limits will be governed by the BRS / Vice-Chancellor. The scholar may apply for the extension through the supervisor with reasons.

- iii. The women candidates and Persons with Disability (more than 40% disability) may be allowed a relaxation of one year for M.Phil and two years for Ph.D. in the maximum duration. In addition, the women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of M.Phil/Ph.D. for up to 240 days.

## 7. REGISTRATION

**7.1** The selected candidate shall apply to the Registrar in the prescribed proforma.

- (i) Every such application must include (a) bio-data of the candidate along with supporting documents and (b) After application for registration each scholar will get one 'Enrolment Certificate' and after submission of the proposal (Plan of work) consisting of around 1000 words within one year, he /she will get the Provisional Registration Certificate, (c) consent of the supervisor is must for the PhD proposal.
- (ii) All candidates will have to give an undertaking in the QUERY FORM answering the following:  
QUERY FORM:

1.

- a) Was the applicant registered earlier for Ph.D. programme in Vidyasagar University?

Yes /No

- b) If yes, provide the details of the registration

Date of Registration:

Title:

Supervisor:

2. a) Was the applicant registered for Ph.D. program in any other University / Institution?

Yes /No

- b) If yes, provide the details of that registration

Date of Registration:

Title:

Supervisor:

University / Institute:

- c) What is the status of the Ph.D. research?

.....  
.....  
.....

I hereby declare that the above statements are true.

.....

Signature

- (iii) Each application submitted to the Registrar shall be sent to the Secretary of the Ph.D. Committee within ten days by the Registrar for consideration of the Ph.D. Committee and for organizing a seminar for approval of the plan of work;

- (iv) All applications in connection with Ph.D. should be placed before the Ph.D. Committee within two months from the date of receipt by the Secretary, Ph.D. Committee.



- (v) A candidate shall deliver one lecture on his / her Ph. D. proposal in a Seminar within three months from the date of submission of application for registration before the members of the Ph.D. Committee and other faculty members of the department (s) concerned to benefit himself / herself from the collective wisdom. The participants of such seminar may give suggestions to the candidate. The candidate may incorporate the suggestions in his/her Ph. D. proposal and a revised proposal may be submitted to the Secretary, Ph.D. Committee. The scholar shall not be required to deliver the seminar again, but will have to produce a certificate from the supervisor for submission to the Registrar through the Secretary of the Ph.D. Committee, stating that necessary suggestions have been included in the revised proposal. The Secretary of the Ph.D. Committee shall submit a report to the Registrar informing the decision of the Ph.D. Committee on the proposal (plan of work) within one month from the date of the seminar. The presence of supervisor at the seminar is compulsory.
- (vi) The Registrar shall issue a Certificate of Provisional Registration within 30 days from the date of receiving the recommendation of the Ph. D. Committee. The Registration shall remain valid initially for a period of six years from the date of Pre- Registration seminar.

If the candidate fails to complete the work within the initial period of registration, the period may be extended on recommendation of the Ph.D. Committee by a period of one year on payment of a fee of Rs.2,000/- (Rupees two thousand) only and on request of the candidate duly forwarded by the supervisor. If the candidate fails to complete the work within the extended period, he/she may, however, apply for re-registration. Completion of work means submission of the thesis.

**7.2** The Ph.D Registration of any candidate may be cancelled on the expiry of the registration period or if the Ph.D. Committee is of the opinion as per the report of the Supervisor that the candidate's progress is not satisfactory.

**7.3** The candidate shall work under the guidance of the Supervisor(s) and shall submit the progress report on his / her research to the Supervisor(s) at an interval of every six months and the copy of the same to be submitted to the office of the Registrar forwarded by the concerned Supervisor(s).

**7.4** The Ph. D. Cell of the Registrar department shall maintain the list of all the Ph.D. registered students on its website on year-wise basis. The list shall include the name of the registered candidate, topic of his/her research, name of his/her supervisor/co-supervisor, date of enrolment/registration

## **8. ATTENDANCE OF FULL-TIME Ph.D. SCHOLARS**

A scholar who enjoys research fellowship shall be treated as full-time scholar and must attend the department concerned on all working days unless his / her absence is justified for reasons of research and other exigencies and duly permitted by his / her supervisor(s) to that effect.

## **9. COURSE WORK**

**9.1** All Research scholars must successfully complete a "Semester System Course Work" (comprising 16 credits) consisting of 4 courses (Course I, II, III & IV) of 4 credits each within a period of two years from the date of provisional registration, as a part of the Ph.D. Programme.

**9.2** The student in consultation with the Research Supervisor can opt for either Credit or Audit of the course work, he / she attends in any Department of the University. The students must

complete Credit of 3 such courses (Course I, II & III). The students should credit at least two courses from the above mentioned courses of 4 credits each from the Department concerned, and he/she will have wide ranging choice for the 3<sup>rd</sup> course to opt for Choice Based Credit System (CBCS) from any Department / Center of the University.

**9.3** Each Department or centre (or Group of departments) shall prepare the syllabus of the courses of I, II and III (in which advanced topic of the subject, general research methodology research methodology which could cover areas such as quantitative methods, computer applications, research ethics,, research methodology related to the subject may be included). The syllabus for the courses, I to III, should be given in the university website. An individual faculty member may offer a course in a semester with prior approval of the departmental committee. The information of such course timings and other details will be available from the office of the concerned department and/or the university website.

**9.4** Course IV will consist of special topics related to the Core Areas of Research = 50 marks (04 Credits). This course may include review of literature / investigation / seminar / collection and analysis of data relevant to the area of research on the recommendation of the supervisor(s) concerned. The performance of the course IV will be evaluated by the departmental committee on the basis of the recommendation of supervisor.

**9.5** The Course Work for Course- I,II & III will be organized by the respective departmental committee. After the completion of the Course Work, examinations will be conducted by the Controller of Examinations with necessary and active assistance from the departmental committee. The departmental committees are authorized to take all necessary steps relating to paper setting, moderation, evaluation, and tabulation of results in their respective areas pertaining to the Course Work. However, the preparation of schedules for examination, holding of examinations and the publication of results thereof will be decided by the Controller of Examinations in consultation with the departmental committees.

**9.6** The Joint-Secretary of the Board of Research Studies (Secretary, Faculty Councils for Post Graduate Studies) will act as the link between the Controller of Examinations on the one hand and the Board of Research Studies and the Departmental Committees on the other hand in respect of matters included in Regulation 8.5.

**9.7** The Cumulative Grade Point Average (CGPA) system will be followed for evaluation of performance of any student.

Performance: Letter Grade	Grade Point Value per Credit	Corresponding Range of Numerical Marks in percentage
Excellent: A	10	85-100%
Very Good: B	8	75% - below 85%
Good: C	6	65% - below 75%
Satisfactory: D	4	55% - below 65%
Unsatisfactory: F	2	Below 55%

Letter Grade “D” is the minimum qualifying grade

Grade “F” means fails to qualify



- 9.8 After successful completion of course work (16 credits), the Controller of Examinations will issue mark sheets and the Registrar will issue a certificate to the research scholar confirming his/her registration for Ph.D. Programme.
- 9.9 A candidate can complete the Course Work in other recognized university or institute. However, the completion of the Course Work will be accepted after evaluating the equivalence of the courses offered by those universities / institutes by the BRS or an equivalent committee constituted by BRS.
- 9.10 Fees for the course work (the amount of fees decided by the University authority) will be paid by the student.
- 9.11 Candidates already holding M. Phil. degree and admitted to the Ph.D. programme, or those who have already completed the course work in M.Phil. and have been permitted to proceed to the Ph.D. in integrated course, may be exempted by the Department from the Ph.D. course work. All other candidates admitted to the Ph.D. programme shall be required to complete the Ph.D. course work prescribed by the Department.

## **10 Research Advisory Committee (RAC)**

There shall be a Research Advisory Committee for each Ph.D. scholar. The composition of the RAC shall be as follows:

- a) Research Supervisor of the scholar
- b) Secretary of the Ph. D. committee and one member of the Ph. D. committee
- c) Two subject experts in the concerned / allied field of research of the candidate

The Research Supervisor of the scholar shall be the Convener of this Committee.

This Committee shall have the following responsibilities:

- i. To review the research proposal and finalize the topic of research;
- ii. To guide the research scholar to develop the study design and methodology of research and identify the course(s) that he/she may have to do.
- iii. To periodically review and assist in the progress of the research work of the research scholar.

10.1 A research scholar shall appear before the Research Advisory Committee once in six months to make a presentation of the progress of his/her work for evaluation and further guidance. The six monthly progress reports shall be submitted by the Research Advisory Committee to the Institution/College with a copy to the research scholar.

10.2 In case the progress of the research scholar is unsatisfactory, the Research Advisory Committee shall record the reasons for the same and suggest corrective measures. If the research scholar fails to implement these corrective measures, the Research Advisory Committee may recommend to the Institution/College with specific reasons for cancellation of the registration of the research scholar.

## **11. PRE-SUBMISSION SEMINAR**

- 11.1** A Research Scholar shall deliver one lecture on his / her Ph.D. work in a seminar before the members of the Ph. D. Committee and other faculty members of the department(s) concerned prior to the submission of the thesis. The application submitted by the candidate to the Registrar for pre-submission seminar must include ten copies of the synopsis on the work, i.e., the summary of work comprising of around 5000 words.
- 11.2** On receipt of such an application from the candidate, duly forwarded by the supervisor, the Registrar shall forward the application to the Secretary, Ph.D. Committee immediately who shall arrange the pre-submission seminar within one month from the date of receipt of application from the Registrar.
- 11.3** The participants of such seminar may give suggestions to the candidate. The candidate may incorporate such suggestions in his/her Ph.D. thesis. The candidate shall submit a report on the proposals of inclusion of such suggestions to the Secretary, Ph.D. Committee through the supervisor concerned. If the candidate disagrees to incorporate such suggestions, he/she will have to explain his / her points to the supervisor whose considered views shall be binding on the candidate and the matter shall be reported to the Secretary, Ph. D. Committee for record.
- 11.4** The Secretary, Ph. D. Committee shall send the report of the pre-submission seminar within 15 days to the Registrar who shall issue a certificate within a fortnight on the pre-submission seminar, if approved. The presence of at least one external member and supervisor is compulsory in the pre-submission seminar.
- 11.5** The pre-submission seminar cannot be permitted before one and half years from the date of registration.

## **12. CHANGE OF TITLE OF THE THESIS**

If the candidate thinks it necessary to change the title of the thesis in view of the new dimensions of the work, either on his own or at the suggestion of the Ph. D. Committee, he/she may apply to the Registrar before the presentation of the pre-submission seminar, along with the supervisor's approval. The Ph.D. Committee may permit such a change, provided that no scholar be entitled to change the title of the work (registered title) without written permission from the Registrar.

## **13. SUBMISSION OF THE THESIS**

- 13.1** On receipt of the permission from the Registrar after Pre-submission seminar, the candidate shall submit his/her thesis for adjudication within a period of one year from the date of pre-submission seminar. Before submission of his/her thesis the candidate shall apply to the Registrar together with (a) Supervisor's certificate, wherever applicable and (b) the letter containing the permission. The Registrar shall give permission within seven days, if the candidate complies with the Ph. D. Regulations.
- 13.2** The candidate shall submit five copies of the thesis (with two soft copies before the viva-voce in MS Word/Latex), six copies in case of joint supervision, together with six copies of synopsis. The Supervisor's certificate has to be submitted with the thesis. The scholar shall submit the synopsis (6 copies) consisting of 250-300 words on the summary and findings of the work and stating how the work contributes to the general advancement of knowledge.
- 13.3** The thesis shall be in typed or printed form and bound with a cover page inscribing only the title of the thesis, the name of the Researcher, Department, University and the year of submission.

**13.4** The candidate shall tender the prescribed submission fee as decided by the University authorities at the time of submission of the thesis.

**13.5** The candidate shall not be allowed to submit the thesis earlier than three years from the date of registration.

**13.6** The candidate cannot submit any work as his thesis for which a Degree / Diploma / other academic award has been conferred on him / her by this University or any other University or Institute. The candidate must make a declaration to this effect in his/her thesis.

**13.7** The Registrar shall communicate with the adjudicators for their consent within fifteen (15) days after receiving their name. The Registrar shall dispatch the thesis to the adjudicators within fifteen (15) days from the date of receiving the consent of the adjudicators. It shall be the responsibility of the Registrar to keep the names and addresses of the adjudicators confidential.

**13.8** Ph.D. scholars must publish at least one (1) research paper in refereed journal and make two paper presentations in conferences/seminars before the submission of the dissertation/thesis for adjudication, and produce evidence for the same in the form of presentation certificates and/or reprints.

**13.9** While submitting for evaluation, the dissertation/thesis shall have an undertaking from the research scholar and a certificate from the Research Supervisor attesting to the originality of the work, vouching that there is no plagiarism and that the work has not been submitted for the award of any other degree/diploma of the same Institution where the work was carried out, or to any other Institution.

**13.10** The thesis shall be an original contribution to knowledge and must therefore bear evidence that the scholar has carried out individual investigations in her / his chosen field.

**13.11** The University shall have the liberty to revoke any Ph.D. degree conferred duly, if subsequently charged with plagiarism.

**13.12** At the time of submission of thesis, the Ph.D. scholar will give his / her written consent for uploading the thesis on the website of Vidyasagar University / UGC / AIU etc. after the receipt of Ph.D. degree.

(i) In case of electronic communication – initially 15 days will be given for receiving consent from the adjudicators; after that period a reminder will be issued; after one week from issuing reminder, if response is not received, the adjudicators will be changed.

(ii) in case of postal communication – initially one month will be given for receiving consent from the adjudicators; reminder will be given on the 3<sup>rd</sup> week; if there is no response by the 6<sup>th</sup> week, the adjudicators will be changed.

(iii) The lists of research scholars who obtained Ph.D. degree provisionally will be uploaded on university website quarterly and the lists will be sent to the UGC & AIU for information.

**13.13** The Guidelines as prescribed by Modern Language Association be followed during the preparation of Ph.D. thesis.

**13.14** The size of the Ph.D. thesis and Font size will be as follows :

Size – A4, Font size – 12, Font – Times New Roman, Line spacing – 2.0

#### **14. LANGUAGE OF THE THESIS**

The thesis should generally be written in English, except language subjects other than English. If any candidate desires to submit thesis in any other language, he / she should take prior approval from the Vice-Chancellor. The Ph.D thesis written in language other than English should have copies of synopsis or abstract in English. However, the candidate may submit copies of synopsis or abstract of thesis written in any one additional nationally recognized / International language.

## **15. ADJUDICATORS**

**15.1** For the purpose of adjudicating the thesis, a panel of adjudicators (not below the rank of Associate Professor) prepared by the Supervisor(s) shall be considered and recommended by the Ph.D. Committee which shall consist of:

- (i) The supervisor(s) as specified in Regulation 4.1.
- ii) Six names, two from West Bengal, two from inside India (outside West Bengal) and two from abroad.

**15.2** The panel shall be prepared at the same meeting of the Ph.D. Committee in which the pre-submission seminar is organized.

**15.3** The Adjudicators shall be finally selected by the Vice-Chancellor and shall comprise the Supervisor/Supervisors, one examiner from outside the university and another from outside the State. It shall be up to the Vice-Chancellor to have one examiner from outside the country on grounds of academic reasons.

**15.4** Electronic media (computer, internet etc) shall be used for communication with the adjudicators, experts and candidates by the Registrar's Office in order to expedite the process of adjudication for which the scholar may be asked to reimburse the actual expenses, if necessary.

## **16. ADJUDICATION REPORT**

**16.1** An adjudicator on evaluation of the thesis shall furnish a report confidentially to the Registrar stating therein *inter-alia*, the following:

- (i) Whether the award of the Ph.D. degree to the candidate is recommended, and whether the thesis is fit for publication by the candidate in the form in which it was presented or with modification(s), if any or whether the thesis is considered to be of outstanding merit so that it would be advisable for the university to get it published at its own cost, provided the candidate agrees or;
- (ii) Whether the thesis though not acceptable in the present form for the award of the Ph.D. degree is likely to be acceptable after revision along with the lines as indicated in the report or;
- (iii) Whether the thesis is lacking in merit so as to render it liable to be rejected.

**16.2** If the thesis is revised in the light of the recommendations of the adjudicators, the adjudicators concerned shall thereafter furnish report either of the type mentioned in clause (i) or the type mentioned in clause (iii) of Regulation 14.1.

**16.3** If the thesis is adjudicated by more than one internal adjudicators, a joint report is to be submitted by them.

**16.4** The office shall make necessary efforts to dispatch thesis for adjudication within two months from the date of receipt of the thesis. However, awarding of the degree / completion of evaluation should be ensured within six months from the date of submission of the thesis.

**16.5** The adjudicator will submit the report within two months from the date of receipt of the thesis.

## **17. APPRAISAL OF THE ADJUDICATION REPORT**

**17.1** The adjudication reports shall be placed before the Vice-Chancellor immediately. If all the reports fulfill the conditions mentioned in Regulation 14.1 (i), the Registrar shall fix up a date for viva-voce in consultation with the Supervisor(s).

**17.2** In the event of two of the examiners recommending the award of the degree and the third recommending rejection of the thesis, the thesis shall be referred to a fourth examiner selected by the Vice-Chancellor from the original panel of examiners. The fourth examiner so appointed

shall not be informed of the recommendations of the other three examiners. The recommendation of the fourth examiner shall be final.

**17.3** In case of any ambiguity in the said reports, the entire matter be placed before the Board of Research Studies for appropriate decision within a period of two months.

**17.4** If two of the examiners, other than the Supervisor(s), recommend the rejection of the thesis, the thesis shall be rejected by the Vice-Chancellor and the Supervisor(s) be informed accordingly.

**17.5** If the thesis of the candidate is rejected, the registration of the candidate shall stand *ip so facto* cancelled.

## **18. VIVA-VOCE**

**18.1** If the adjudicators recommend the thesis for the award of the degree as specified in Regulations here above, the candidate shall be asked to appear for the viva-voce, which shall be openly defended by the candidate. The *viva-voce* examination shall be open to be attended by Members of the Ph. D. Committee, all faculty members of the Department, other research scholars and other interested experts/ researchers.

**18.2** The Supervisor (s) and the expert preferably out of the panel prepared under Regulation 13.1 shall be appointed by the Vice-Chancellor to act as Oral Examiners at the open viva-Voce. In case of non-availability of an expert for viva-voce from the panel, the Vice-Chancellor shall nominate an expert from a panel of three experts suggested by the Supervisor.

**18.3** Viva-Voce examination for Ph.D. may be held normally at the university with information to the Secretary, Ph.D. committee concerned.

**18.4** If the oral examiners are satisfied with the performance of the candidate at the viva-voce and submit a written report to that effect, the Vice-Chancellor shall recommend the award of the Degree to the candidate in the next Convocation and shall report to the Executive Council about the award of such degree. A Provisional Certificate shall be issued to the candidate to that effect within seven days after the viva-Voce examination. In the provisional certificate the university shall also certify that the Degree has been awarded in accordance with the provisions of the Regulation, 2016 of the UGC. This declaration shall also be incorporated in the Degree (final certificate) in an appropriate manner.

**18.5** If the candidate fails to satisfy the examiners in the open viva-voce, he/she shall be given two more chances to defend his / her thesis within one year from the date of such meeting. If the candidate fails to satisfy both the viva examiners on all the occasions, his/her thesis shall be rejected and his/her registration shall stand cancelled. In an eventuality that the thesis is rejected at the viva-voce finally, the examiners shall give specific reasons in writing on the basis of which the examiner(s) recommends rejection of the thesis provided (i) that the viva-voce examination has been conducted by the same examiners again unless his / her services were not available (ii) that in case of rejection as above, the matter be reported to the Board of Research Studies to recommend further action in the matter on the merit of the case.

**18.6** In the event of a scholar proceeding /staying abroad after the submission of his/her thesis, a competent expert in the field abroad may be appointed by the Vice-Chancellor as a special case on the recommendation of the Supervisor(s) from a panel of three foreign experts submitted by the Supervisor(s), if video conferencing is not possible. The scholar shall have to pay an additional fee as decided by the university authorities each time, if he / she is directed to appear again at the viva-voce examination after the original one.

## **19. RESUBMISSION**

**19.1** If a candidate is required to re-submit the thesis vide Regulation 15.2, the candidate may submit the revised thesis after a period of three months but not later than one year from the date of communication issued by the Registrar on payment of prescribed fee as decided by the University authorities.

**19.2** If the candidate fails to resubmit the thesis within one year as stated above, his / her registration shall be cancelled.

## **20. AWARD OF THE DEGREE**

(i) The Degree of Ph.D. will be awarded from the date on which Hon'ble Vice-Chancellor approves the degree after viva-voce of Ph.D.

(ii) The award of the Ph.D. Degree shall be given at the Convocation of the university, which is a meeting of the Court, if all the procedures as stated hereinbefore are fulfilled.

## **21. PRESERVATION OF THE THESIS**

**21.1** After the degree of Ph.D. is awarded, a soft copy of the thesis shall be submitted to the UGC within 30 days for hosting the same in INFLIBNET.

**21.2** The thesis may also be preserved in the following manner:

(i) One copy at the Central Library, both hard copy and in electronic form.

(ii) One copy at the Departmental Library, and if there is no Departmental Library, with the Ph.D. Section of the university.

## **22. INTERPRETATION / MODIFICATION OF RULES**

The powers of interpretation and modification of the Regulations here above are vested in the Executive Council of the University. Provided that any of the powers mentioned above (excluding those relating to modifications or changes in Rules) may be delegated to the Vice-Chancellor by a specific resolution of the Executive Council and subsequent notification and inclusion in CSR Notification to give effect to the changes.

## **23. Academic, administrative and infrastructure requirement to be fulfilled by colleges for getting recognition for offering Ph.D. programmes:**

**23.1** Colleges may be considered eligible to offer Ph.D programmes only if they satisfy the availability of eligible Research Supervisors, required infrastructure and supporting administrative and research promotion facilities as per these Regulations.

**23.2** Post-graduate departments of colleges, Research laboratories of Government of India/State Government with at least two Ph.D. qualified teachers/scientists/other academic staff in the Department concerned along with required infrastructure, supporting administrative and research promotion facilities as per these Regulations, stipulated under sub-clause 10.3, shall be considered eligible to offer M. Phil./Ph.D. programmes. Colleges should additionally have the necessary recognition by the Institution under which they operate to offer M. Phil/Ph.D. programme.

23.3 Colleges with adequate facilities for research as mentioned below alone shall offer M. Phil./ Ph. D. programmes:

23.3.1 In case of science and technology disciplines, exclusive research laboratories with sophisticated equipment as specified by the Institution concerned with provision for adequate space per research scholar along with computer facilities and essential software, and uninterrupted power and water supply;

23.3.2 Earmarked library resources including latest books, Indian and International journals, e-journals, extended working hours for all disciplines, adequate space for research scholars in the Department/ library for reading, writing and storing study and research materials.

The facilities provided by the college for the above purpose may be considered by the university after proper verification by the expert committee duly constituted by the university.

24. Treatment of Ph.D / M.Phil. through Distance Mode/Part-time:

24.1 The University shall not conduct M.Phil. and Ph.D. Programmes through distance education mode.

24.2 The university will allow Part-time Ph. D. provided all the conditions mentioned in the extant Ph. D. Regulations are met.





Office of the Registrar  
VIDYASAGAR UNIVERSITY

Midnapore - 721 102.

Dated : 03.09.2019.

NOTIFICATION

Amendment in the Ph.D. Regulations, 2016 of Vidyasagar University vide Clause 7.3.

This is to notify for general information that as approved by the Hon'ble Vice-Chancellor, the following amendment has been made in the Ph.D. Regulations, 2016 of Vidyasagar University vide Clause 7.3 regarding the tenure for submission of the progress report by the Research Scholars. Other portions of the said Clause will remain unchanged.

Amendment in Clause 7.3 : " *The Progress Report of the research work should be submitted to the Supervisor(s) by the Research Scholar(s) at an interval of Three Months (Quarterly).* "

In terms of the aforesaid amendment made by the University, all the Research Scholars of Vidyasagar University are hereby requested to submit their progress report of the research work quarterly to their respective guide/Supervisor(s) as per the revised format attached herewith, prescribed by the University for this purpose and the copy of the same to be submitted to the office of the undersigned forwarded by the concerned Supervisors as per the said provision of Ph.D. Regulations and countersigned by the Dean of the faculty concerned as per the prescribed format.

This Notification is issued with the approval of the competent authority.

Sd/-  
Registrar

Memo No.: VU/R/Noti./C0394 /2019 dated 03.09.2019.

Copy forwarded for information and necessary action to :

- (1) the Deans of the faculty concerned.
- (2) the Head of all academic departments.
- (3) the Secretary, Ph.D. Committee of all academic departments.
- (4) the Director of all Centres pursuing the Ph.D. Programme.
- (5) the Principal/Teachers-in-Charge of affiliated colleges who have run the Research Centres.
- (6) Information Scientist for uploading the notification on the University website.
- (7) the Office Supdt., Registrar's office.
- (8) the Secretary to the Vice-Chancellor for kind information to the Hon'ble Vice-Chancellor.
- (9) the Ph.D. Cell.

*[Signature]*  
Registrar 03/09/19



## QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore – 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in .....  
For the period from ..... to .....

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar :
2. Name of Supervisor(s) :
3. Date of Registration for Ph.D. Degree :
4. Title of Research Work .....
5. Details in respect of Research work carried out during the above mentioned period:  
.....  
.....

Yours Sincerely,

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty
<div>1. General intelligence &amp; keenness to learn: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>2. Initiative, Drive and Resourcefulness: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>3. Quality of Research Work: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>4. Willingness to shoulder additional responsibility and put in extra efforts: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>5. Punctuality in attendance: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>6. Amenability to discipline: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>7. Relations with colleagues and teachers (willingness to co-operate and collaborate): Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>8. Overall Grading: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>Any other comment of the Supervisor(s):  ..... <div style="text-align: center;">Signature of the Supervisor (s)</div> ..... <div style="text-align: center;">Counter signed by the Dean of the concerned Faculty</div></div>

### Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature



# VIDYASAGAR UNIVERSITY

P.O. : Vidyasagar University, Midnapore - 721 102, Dist.: Paschim Medinipur,  
West Bengal, INDIA.

Dated : 21.08.2023

## NOTIFICATION

This is to notify for general information of all concerned that the Hon'ble Vice-Chancellor is pleased to re-constitute the **Plagiarism Committee** consisting of the following members:

1. Prof. Tapan Kumar De, Dean(Actg.), Faculty of Arts and Commerce- **Chairman**
2. Prof. Madhumangal Pal, Director, IQAC
3. Prof. Ajay Kumar Misra, Director, USIC and Research & Development Cell,
4. Dr. Prabhash Kumar Singh, Assistant Controller of Examinations,
5. Shri Biplab Chakraborty, Senior Information Scientist - Convener

The concerned members of the Committee are being informed accordingly and requested to kindly do the needful in this regard.

This is issued with the approval of the competent authority.


Sd/-  
Registrar

Memo No. VU/R/Noti./1060/2023 Dated: 21.08.2023

Copy forwarded for information and necessary action to:

1. Concerned members of the Committee,
2. The Secretary to the Vice Chancellor for kind information to the Hon'ble Vice Chancellor,
3. The Office Supdt., Office of the Registrar,
- ✓ 4. The Information Scientist(Officiating) for uploading on the University website,
5. Ph.D. Cell
6. The Establishment Section
7. Relevant File,
8. Guard file



  
(Dr. J. K. Nandi)

Registrar  
Registrar  
VIDYASAGAR UNIVERSITY  
Midnapore - 721102, W.B.



*Office of the Registrar*  
**VIDYASAGAR UNIVERSITY**

Midnapore - 721 102.

Dated : 22.04.2022.

**NOTIFICATION**

It is hereby notified for the general information that as desired by the Internal Quality Assurance Cell (IQAC) of Vidyasagar University, all heads of the academic departments of Vidyasagar University are requested to kindly arrange to complete the meeting of the Research Advisory Committee (RAC) of all the research scholars of the departments positively by June, 2022. The Departments concerned who have already completed such meeting, kindly ignore this notification.

All Heads of the academic departments are being informed accordingly and requested to kindly do the needful in this regard as required by the IQAC. The Deans of the faculties are also being informed accordingly.

This notification is issued with the approval of the competent authority and please treat this notification as MOST URGENT & IMPORTANT.

Sd/-  
Dr. J.K. Nandi  
Registrar.

Memo No. : VU/R/Noti./C0173/2022 dated 22.04.2022.

*Copy forwarded for information and necessary action to :*

- (1) the Deans of the faculty concerned ;
- (2) the Heads of all academic departments ;
- (3) the Director (Officiating), CDOE ;
- (4) the Director, Internal Quality Assurance Cell (IQAC) ;
- (5) the Senior Information Scientist for uploading the same on the University website ;
- (6) the Secretary to the Vice-Chancellor for kind information of the Hon'ble Vice-Chancellor ;
- (7) the office of the Senior Superintendent, Registrar's Office ;
- (8) the Ph.D. Cell ;
- (9) relevant file.

*[Signature]*  
22/04/22  
Registrar.

Registrar  
Vidyasagar University  
Midnapore-721102.



**VIDYASAGAR UNIVERSITY**  
**Midnapore**

REGULATIONS  
Relating to  
THE DEGREE OF DOCTOR OF PHILOSOPHY(Ph. D.)  
IN ARTS, COMMERCE AND SCIENCE

(as per UGC Regulations, 2016)

**Introduction**

The Ph.D. (Doctor of Philosophy) Programme of the university is intended towards the achievement of new insights, new findings, conclusions and new methods of analysis of relationships. The Ph.D. degree shall be awarded to a candidate on the basis of original contributions incorporated in his/her thesis, adjudicated and recommended by a Board of Experts and successfully defended by the candidate in a Viva-Voce.

**1. TITLE AND COMMENCEMENT**

- 1.1 These Regulations may be called 'Regulations Relating to the Degree of Doctor of Philosophy (Ph.D.) in Arts, Commerce and Science, 2016' or the 'Ph.D. Regulations, 2016.'
- 1.2 These Regulations shall come into effect from the date of CSR Notification issued by the university and shall apply to all such cases coming under the purview of Vidyasagar University and covered by these Regulations, 2016.
- 1.3 'Research Scholar' shall mean and also be known as a student or a candidate engaged in research with or without scholarship and registered as such by the appropriate authority under these Regulations.
- 1.4 Notwithstanding anything contained in these Regulations, modifications and regulations received from the UGC from time to time in this regard shall be applied and incorporated suitably in these Regulations with necessary notifications.

**2. BOARD OF RESEARCH STUDIES**

- 2.1 The Ph.D. Programme of the university shall be monitored by the Executive Council through the Board of Research Studies constituted for a period of four years in each of the faculties.
- 2.2 The Board of Research Studies (BRS) in each of the faculties shall consist of:
  - (i) The Vice-Chancellor – Chairman
  - (ii) The Dean of the Faculty concerned – Vice-Chairman
  - (iii) Two Senior Professors of the Faculty concerned to be nominated by the Executive Council
  - (iv) Two outside experts (not below the rank of Professor) to be nominated by the Vice-Chancellor.
  - (v) The Registrar – Secretary
  - (vi) The Secretary, Faculty Councils for P.G. Studies – Joint Secretary
- 2.3: Under the overall supervision and guidance of the Vice-Chancellor, a joint meeting of the Board of Research Studies shall be held at least thrice a year to make policy decisions for planning, promoting, coordinating and monitoring research activities at the university. Each of the Board of Research Studies shall meet at least twice in a year to review the progress and execute the plans and programmes for realizing the objectives. The programme for organizing Course Work and related matters thereof shall be decided at such joint meetings of the Board of Research Studies.

**2.4** Without prejudice to the following regulations, Acts, Ordinances and Statutes, the respective Board of Research Studies shall discharge the following functions for smooth and effective implementation of the Ph.D. Programme of the University:

- (i) Review the progress of research activities of the research scholars at the university on the basis of reports submitted by the respective Ph.D. Committee at an interval of six months;
- (ii) Consider names of institutions or research organizations and recommend to the Executive Council for their recognition by the university;
- (iii) Consider the prayer for re-registration and make necessary recommendations;
- (iv) Consider reports of examination/adjudication and make suitable recommendations to the Vice-Chancellor in case of rejection of a thesis as mentioned herein under; and,
- (v) Deal with all such matters as may be referred to it by the Vice-Chancellor for advice and /or by the Ph.D. Committees for direction from time to time.

### **3. Ph. D. COMMITTEE**

**3.1** There shall be a Ph.D. Committee in each of the Post-graduate Departments of the university to implement the programme, which shall include:

- (i) The Vice-Chancellor-Chairman
- (ii) The Dean of the Faculty to which the Post-Graduate Department belongs – Vice-Chairman
- (iii) The Head of the concerned Post-Graduate Department
- (iv) Three teachers of the concerned department / concerned Faculty not below the rank of Associate Professor (to be decided by the concerned Departmental Committee)
- (v) Two experts, not below the rank of Professor of a university or institute of higher learning or scholar of eminence from outside the Vidyasagar University to be nominated by the Vice-Chancellor out of a panel of five experts recommended by the Departmental Committee.

**3.2** The Head of the Post-Graduate Department concerned shall act as the Secretary of the Ph.D. Committee. The Supervisor(s) concerned shall be invited to participate as invitee member(s) without voting right in connection with the supervision work of the scholar(s) concerned.

A Ph.D. Committee shall function for a term of four years from the date of its constitution. In case of any vacancy in the position(s) referred to in sub-clause (v) of Rule 3.1, the same procedure as specified here above shall be adopted to fill in the vacancy within a period of three months.

The presence of 50% of the members in a meeting of the Ph. D. Committee including at least one external expert but excluding the supervisor(s), invitee members, shall constitute the quorum.

Provided that the presence of external members in a meeting shall not be mandatory for consideration of routine matters like determination of number of available positions /seats in a year, scrutiny of application forms, organizing Entrance Test, finalization of panel including merit list, and preparation of list of paper setters, moderators and examiners for Entrance Test and Semester (end) Examinations.

- (ii) In absence of the Vice-Chancellor, the Dean of the Faculty concerned shall chair the meeting. In absence of both the Vice Chancellor and the Dean, the members shall select a Chairman not below the rank of a Professor from amongst themselves.
- (iii) The Ph. D. Committee shall meet at quarterly intervals in a year or more frequently, if necessary.

### **3.3 The functions of the Ph.D. Committee shall be:**

- (i) To recommend the number of seats available in the department for Ph.D. Programme under (a) University Research Scholarships/Fellowships, (b) without Fellowships in a year before the commencement of an academic session to the respective Board of Research Studies for publication of notification in the university website and in national dailies;
- (ii) To consider the applications for admission to the Ph.D. Programmes after proper scrutiny and prepare a list of eligible candidates and to organize the written Entrance Test and Interview thereafter for admission to the programme as announced at the time of determining the number of available positions for doing Ph.D. in a year;
- (iii) To decide the allocation of a Supervisor for a selected student in consideration of the proposed topic for research and the available specialization in a department concerned.
- (iv) To prepare a panel including merit list after the Entrance Test and Interview of the candidates and to recommend such names to the Registrar for admission into the programme;
- (v) To recommend the change of supervisor in case of death of the Supervisor or for other reasons, if it is satisfied that the change is necessary only on academic ground;
- (vi) To prepare and recommend a list of adjudicators for adjudication of the thesis to the Vice-Chancellor;
- (vii) To discharge such functions and responsibilities as may be entrusted to it by the Vice-Chancellor or the Board of Research Studies from time to time.
- (viii) To consider the applications of the college teachers affiliated to Vidyasagar University who are willing to act as supervisors. For consideration of such applications, the PhD committee must evaluate the previous research activities that will be supported by proven research publications.

### **4. ALLOCATION OF SUPERVISOR**

#### **4.1 The Supervisor can be allocated from :**

- (i) Any regular Professor of Vidyasagar University with at least five research publications in refereed journals and any regular Associate/Assistant Professor of the university with a Ph.D. degree and at least two research publications in refereed journals may be recognized as Research Supervisor.

Provided that in areas/disciplines where there is no or only a limited number of refereed journals, the Board of Research Studies, on recommendation of the concerned Ph. D. committee, may relax the above condition for recognition of a person as Research Supervisor with reasons recorded in writing.

- (ii) Only a full time regular teacher of Vidyasagar University can act as a supervisor. The external supervisors are not allowed. However, Co-Supervisor can be allowed in inter-disciplinary areas from other departments of the same institute or from other related institutions with the approval of the Board of Research Studies

- (iii) The allocation of Research Supervisor for a selected research scholar shall be decided by the Ph.D. Committee concerned depending on the number of scholars per Research Supervisor, the available specialization among the Supervisors and research interests of the scholars as indicated by them at the time of interview/*viva voce*.

- (iv) In case of topics which are of inter-disciplinary and / or specialized in nature where the Department concerned feels that the expertise in the Department has to be supplemented from outside, the Department may appoint a Research Supervisor from the Department itself, who shall be known as the Research Supervisor, and a Co-Supervisor from outside the Department/



Faculty/College/Institution on such terms and conditions as may be specified and agreed upon by the consenting Institutions/Colleges.

(v) A Research Supervisor/Co-supervisor who is a Professor or Associate Professor, at any given point of time, cannot guide more than 8 (eight) Ph.D. scholars. An Assistant Professor as Research Supervisor can guide up to a maximum of 4 (four) Ph.D. scholars.

The maximum limit of intake stated above includes the registered students of other university/institute (if any) under concerned supervisor.

(vi) In case of relocation of an Ph.D. woman scholar due to marriage or otherwise, the research data shall be allowed to be transferred to the University to which the scholar intends to relocate provided all the other conditions in these regulations are followed in letter and spirit and the research work does not pertain to the project secured by the parent institution/ supervisor from any funding agency. The scholar will however give due credit to the parent guide and the institution for the part of research already done.

(vii) A teacher of a college, affiliated to Vidyasagar University, may also act as a supervisor, if he/she fulfils the following criteria : (1) he / she must be a permanent teacher of the college, (2) he / she must have doctoral degree, (3) he / she must have at least three years experience in teaching as a permanent teacher, (4) continuous research activities for the last three years with proven publications (at least three publications in journal with peer review system or ISSN number, book with ISBN number, report, patent, etc.).

viii) A permanent teacher holding full time substantive position for at least 3 years of an affiliated college under Vidyasagar University may supervise not more than two scholars at a time. The matter will be decided by the concerned Ph. D. Committee and the Board of Research Studies.

(ix) After successful pre-submission seminar given by a candidate registered under a supervisor, one position for registration will be treated as vacant under the same supervisor.

**4.2** One who has enrolled himself / herself as a scholar for doing Ph.D. work at this university or elsewhere, shall not be eligible to act as a Supervisor.

**4.3** The allocation of Supervisor for a selected student shall be decided by the Ph.D. Committee in a meeting in consideration of the proposed topic for research vis-à-vis the available specialization among the eligible faculties.

**4.4** While deciding the allocation of the Supervisor for a candidate, due emphasis shall be given to the research interests and preferences as indicated during interview by the candidate.

## **5. ELIGIBILITY FOR ADMISSION**

**5.1** An application for admission to the Ph.D. Programme of the university shall be made to the Registrar within the stipulated date in the prescribed form along with two copies of photographs and self attested copies of testimonials of the candidate.

**5.2** A person who has obtained Master's Degree or a degree deemed equivalent from any university or institution recognized by this university or such other degree as may be considered sufficient for this purpose shall also be eligible for admission, if obtained at least 55% (General Category), or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed), 50% (for SC, ST, OBC-A, OBC-B, Differently able Categories) marks or its equivalent grade

Provided that –

- (i) a candidate who has completed at least a total of 5 years in UG and PG study in a recognized institution or university;
- (ii) the candidate is not currently admitted as a student in any full-time course of studies or registered for doing Ph.D. in any university;
- (iii) a candidate who has regular M.Phil./ M.Tech./ or a degree deemed to be equivalent by the Board of Research Studies (on the recommendation of the Ph.D. Committee concerned) shall be exempted from appearing at the Written Admission Test for this purpose and will have to appear only at an interview to be conducted by the Ph.D. Committee;
- (iv) Candidates qualified at the NET / GATE / SET / UGC (JRF) / CSIR (JRF) or any other examinations that considered equivalent by the BRS shall also be exempted from appearing at the Written Admission Test and will have to appear at an interview.
- (v) In all other cases, the candidates will have to appear at the Written Admission Test and if qualified, have to appear at an interview to be conducted by the respective Ph.D. Committee. Provided that the candidates obtaining 50% marks at the Written Admission Test shall be eligible to appear at the interview.
- (vi) Final semester PG students are eligible to apply for the Ph.D Programme provided that they fulfill the above requirements during admission.

**5.3** The Written Admission Test shall be conducted for 100 marks. The syllabus of the Entrance Test shall consist of 20% of research methodology and 80% shall be subject specific. The Interview shall be held for 50 marks and the merit list shall be prepared taking into consideration only the scores at the interview.

**5.4** During interview / viva-voce the candidates are required to discuss their research interest/area before the departmental Ph. D. Committee. The committee shall consider whether a) the candidate possesses the competence for the proposed research, b) the research work can be suitably undertaken at the Institution and c) the proposed area of research can contribute to new/additional knowledge

**5.5** The reservation policy of the Government with regard to admission into Post-graduate Courses shall be followed in admitting the students into Ph.D. Programmes.

**5.6** Those candidates who qualify at the Admission Test and or Interview (as the case may be) shall be eligible for admission against available seats / positions within one year from the date of publication of the Merit List after which the validity of the merit list shall be deemed to have expired.

**5.7** The Written Admission Test will be conducted by the respective departments following the academic calendar (see **5.12**). The information for PhD admission will be available from the office of the respective Departments or the University website.

**5.8** The result of the Written Admission Test shall remain valid for two years and the qualified candidates shall be required to appear at the interview only, if they desire admission.

**5.9** In case of any dispute relating to the conduct of Admission Test, Interview and publication of merit list thereof, the decisions of the Vice-Chancellor shall be final and binding on all concerned.



**5.10** Candidates who have cleared the M.Phil. course work with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) and successfully completing the M. Phil. Degree shall be eligible to proceed to do research work leading to the Ph. D. Degree in the same Institution in an integrated programme. A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/OBC- A / OBC-B /differently-able person..

**5.11** A person whose M.Phil. dissertation has been evaluated and the viva voce is pending may be admitted to the Ph.D. programme of the same Institution.

### **5.12 Academic Calendar**

Every department should arrange for the admission of the Research Scholars once a year (1<sup>st</sup> session as shown in the table below). Especially for funded research (like, Rajib Gandhi Fellowship, Moulana Azad Fellowship, INSPIRE Fellowship etc) the Departments may arrange an admission for 2<sup>nd</sup> time in the same year. The admission for special cases stated above should be held in the second session as shown in the table below. The academic calendar for the admission of Research Scholars is given below.

Items	1 <sup>st</sup> session	2 <sup>nd</sup> Session
Advertisement	April 3 <sup>rd</sup> week	October 3 <sup>rd</sup> week
Last Date of Application	May 3 <sup>rd</sup> week	November 3 <sup>rd</sup> week
Publication of Eligible Applicants List	May 4 <sup>th</sup> week	November 3 <sup>rd</sup> week - December 1 <sup>st</sup> week
Entrance Test and Merit List for Interview	June 3 <sup>rd</sup> week – July 4 <sup>th</sup> week	December 3 <sup>rd</sup> - 4 <sup>th</sup> week
Interview and publication final merit list	July 1 <sup>st</sup> week - August 1 <sup>st</sup> week	January 1 <sup>st</sup> - 2 <sup>nd</sup> week
Admission , Submission of Ph.D. proposal , Pre-registration seminar, commencement of course work	July 2 <sup>nd</sup> week - September 1 <sup>st</sup> week	January 3 <sup>rd</sup> – 4 <sup>th</sup> week

**5.13** Candidates selected for the Ph.D. Programme shall be required to pay a non-refundable Admission Fee as decided by the university authorities. The admitted students will be eligible for attending the Ph.D. Course Work (see Regulation 8)

### **6.0 Duration of the Programme:**

- Ph.D. programme shall be for a minimum duration of three years, including course work and a maximum of six years. The candidates can apply for early submission (before three years after registration) to the Vice-Chancellor, if required, through the Supervisor(s).
- Extension beyond the above limits will be governed by the BRS / Vice-Chancellor. The scholar may apply for the extension through the supervisor with reasons.

- iii. The women candidates and Persons with Disability (more than 40% disability) may be allowed a relaxation of one year for M.Phil and two years for Ph.D. in the maximum duration. In addition, the women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of M.Phil/Ph.D. for up to 240 days.

## 7. REGISTRATION

**7.1** The selected candidate shall apply to the Registrar in the prescribed proforma.

- (i) Every such application must include (a) bio-data of the candidate along with supporting documents and (b) After application for registration each scholar will get one 'Enrolment Certificate' and after submission of the proposal (Plan of work) consisting of around 1000 words within one year, he /she will get the Provisional Registration Certificate, (c) consent of the supervisor is must for the PhD proposal.
- (ii) All candidates will have to give an undertaking in the QUERY FORM answering the following:  
QUERY FORM:

1.

- a) Was the applicant registered earlier for Ph.D. programme in Vidyasagar University?

Yes /No

- b) If yes, provide the details of the registration

Date of Registration:

Title:

Supervisor:

2. a) Was the applicant registered for Ph.D. program in any other University / Institution?

Yes /No

- b) If yes, provide the details of that registration

Date of Registration:

Title:

Supervisor:

University / Institute:

- c) What is the status of the Ph.D. research?

.....  
.....  
.....

I hereby declare that the above statements are true.

.....

Signature

- (iii) Each application submitted to the Registrar shall be sent to the Secretary of the Ph.D. Committee within ten days by the Registrar for consideration of the Ph.D. Committee and for organizing a seminar for approval of the plan of work;

- (iv) All applications in connection with Ph.D. should be placed before the Ph.D. Committee within two months from the date of receipt by the Secretary, Ph.D. Committee.

- (v) A candidate shall deliver one lecture on his / her Ph. D. proposal in a Seminar within three months from the date of submission of application for registration before the members of the Ph.D. Committee and other faculty members of the department (s) concerned to benefit himself / herself from the collective wisdom. The participants of such seminar may give suggestions to the candidate. The candidate may incorporate the suggestions in his/her Ph. D. proposal and a revised proposal may be submitted to the Secretary, Ph.D. Committee. The scholar shall not be required to deliver the seminar again, but will have to produce a certificate from the supervisor for submission to the Registrar through the Secretary of the Ph.D. Committee, stating that necessary suggestions have been included in the revised proposal. The Secretary of the Ph.D. Committee shall submit a report to the Registrar informing the decision of the Ph.D. Committee on the proposal (plan of work) within one month from the date of the seminar. The presence of supervisor at the seminar is compulsory.
- (vi) The Registrar shall issue a Certificate of Provisional Registration within 30 days from the date of receiving the recommendation of the Ph. D. Committee. The Registration shall remain valid initially for a period of six years from the date of Pre- Registration seminar.

If the candidate fails to complete the work within the initial period of registration, the period may be extended on recommendation of the Ph.D. Committee by a period of one year on payment of a fee of Rs.2,000/- (Rupees two thousand) only and on request of the candidate duly forwarded by the supervisor. If the candidate fails to complete the work within the extended period, he/she may, however, apply for re-registration. Completion of work means submission of the thesis.

**7.2** The Ph.D Registration of any candidate may be cancelled on the expiry of the registration period or if the Ph.D. Committee is of the opinion as per the report of the Supervisor that the candidate's progress is not satisfactory.

**7.3** The candidate shall work under the guidance of the Supervisor(s) and shall submit the progress report on his / her research to the Supervisor(s) at an interval of every six months and the copy of the same to be submitted to the office of the Registrar forwarded by the concerned Supervisor(s).

**7.4** The Ph. D. Cell of the Registrar department shall maintain the list of all the Ph.D. registered students on its website on year-wise basis. The list shall include the name of the registered candidate, topic of his/her research, name of his/her supervisor/co-supervisor, date of enrolment/registration

## **8. ATTENDANCE OF FULL-TIME Ph.D. SCHOLARS**

A scholar who enjoys research fellowship shall be treated as full-time scholar and must attend the department concerned on all working days unless his / her absence is justified for reasons of research and other exigencies and duly permitted by his / her supervisor(s) to that effect.

## **9. COURSE WORK**

**9.1** All Research scholars must successfully complete a "Semester System Course Work" (comprising 16 credits) consisting of 4 courses (Course I, II, III & IV) of 4 credits each within a period of two years from the date of provisional registration, as a part of the Ph.D. Programme.

**9.2** The student in consultation with the Research Supervisor can opt for either Credit or Audit of the course work, he / she attends in any Department of the University. The students must

complete Credit of 3 such courses (Course I, II & III). The students should credit at least two courses from the above mentioned courses of 4 credits each from the Department concerned, and he/she will have wide ranging choice for the 3<sup>rd</sup> course to opt for Choice Based Credit System (CBCS) from any Department / Center of the University.

**9.3** Each Department or centre (or Group of departments) shall prepare the syllabus of the courses of I, II and III (in which advanced topic of the subject, general research methodology research methodology which could cover areas such as quantitative methods, computer applications, research ethics,, research methodology related to the subject may be included). The syllabus for the courses, I to III, should be given in the university website. An individual faculty member may offer a course in a semester with prior approval of the departmental committee. The information of such course timings and other details will be available from the office of the concerned department and/or the university website.

**9.4** Course IV will consist of special topics related to the Core Areas of Research = 50 marks (04 Credits). This course may include review of literature / investigation / seminar / collection and analysis of data relevant to the area of research on the recommendation of the supervisor(s) concerned. The performance of the course IV will be evaluated by the departmental committee on the basis of the recommendation of supervisor.

**9.5** The Course Work for Course- I,II & III will be organized by the respective departmental committee. After the completion of the Course Work, examinations will be conducted by the Controller of Examinations with necessary and active assistance from the departmental committee. The departmental committees are authorized to take all necessary steps relating to paper setting, moderation, evaluation, and tabulation of results in their respective areas pertaining to the Course Work. However, the preparation of schedules for examination, holding of examinations and the publication of results thereof will be decided by the Controller of Examinations in consultation with the departmental committees.

**9.6** The Joint-Secretary of the Board of Research Studies (Secretary, Faculty Councils for Post Graduate Studies) will act as the link between the Controller of Examinations on the one hand and the Board of Research Studies and the Departmental Committees on the other hand in respect of matters included in Regulation 8.5.

**9.7** The Cumulative Grade Point Average (CGPA) system will be followed for evaluation of performance of any student.

Performance: Letter Grade	Grade Point Value per Credit	Corresponding Range of Numerical Marks in percentage
Excellent: A	10	85-100%
Very Good: B	8	75% - below 85%
Good: C	6	65% - below 75%
Satisfactory: D	4	55% - below 65%
Unsatisfactory: F	2	Below 55%

Letter Grade “D” is the minimum qualifying grade

Grade “F” means fails to qualify

- 9.8 After successful completion of course work (16 credits), the Controller of Examinations will issue mark sheets and the Registrar will issue a certificate to the research scholar confirming his/her registration for Ph.D. Programme.
- 9.9 A candidate can complete the Course Work in other recognized university or institute. However, the completion of the Course Work will be accepted after evaluating the equivalence of the courses offered by those universities / institutes by the BRS or an equivalent committee constituted by BRS.
- 9.10 Fees for the course work (the amount of fees decided by the University authority) will be paid by the student.
- 9.11 Candidates already holding M. Phil. degree and admitted to the Ph.D. programme, or those who have already completed the course work in M.Phil. and have been permitted to proceed to the Ph.D. in integrated course, may be exempted by the Department from the Ph.D. course work. All other candidates admitted to the Ph.D. programme shall be required to complete the Ph.D. course work prescribed by the Department.

## **10 Research Advisory Committee (RAC)**

There shall be a Research Advisory Committee for each Ph.D. scholar. The composition of the RAC shall be as follows:

- a) Research Supervisor of the scholar
- b) Secretary of the Ph. D. committee and one member of the Ph. D. committee
- c) Two subject experts in the concerned / allied field of research of the candidate

The Research Supervisor of the scholar shall be the Convener of this Committee.

This Committee shall have the following responsibilities:

- i. To review the research proposal and finalize the topic of research;
- ii. To guide the research scholar to develop the study design and methodology of research and identify the course(s) that he/she may have to do.
- iii. To periodically review and assist in the progress of the research work of the research scholar.

10.1 A research scholar shall appear before the Research Advisory Committee once in six months to make a presentation of the progress of his/her work for evaluation and further guidance. The six monthly progress reports shall be submitted by the Research Advisory Committee to the Institution/College with a copy to the research scholar.

10.2 In case the progress of the research scholar is unsatisfactory, the Research Advisory Committee shall record the reasons for the same and suggest corrective measures. If the research scholar fails to implement these corrective measures, the Research Advisory Committee may recommend to the Institution/College with specific reasons for cancellation of the registration of the research scholar.

## **11. PRE-SUBMISSION SEMINAR**

- 11.1** A Research Scholar shall deliver one lecture on his / her Ph.D. work in a seminar before the members of the Ph. D. Committee and other faculty members of the department(s) concerned prior to the submission of the thesis. The application submitted by the candidate to the Registrar for pre-submission seminar must include ten copies of the synopsis on the work, i.e., the summary of work comprising of around 5000 words.
- 11.2** On receipt of such an application from the candidate, duly forwarded by the supervisor, the Registrar shall forward the application to the Secretary, Ph.D. Committee immediately who shall arrange the pre-submission seminar within one month from the date of receipt of application from the Registrar.
- 11.3** The participants of such seminar may give suggestions to the candidate. The candidate may incorporate such suggestions in his/her Ph.D. thesis. The candidate shall submit a report on the proposals of inclusion of such suggestions to the Secretary, Ph.D. Committee through the supervisor concerned. If the candidate disagrees to incorporate such suggestions, he/she will have to explain his / her points to the supervisor whose considered views shall be binding on the candidate and the matter shall be reported to the Secretary, Ph. D. Committee for record.
- 11.4** The Secretary, Ph. D. Committee shall send the report of the pre-submission seminar within 15 days to the Registrar who shall issue a certificate within a fortnight on the pre-submission seminar, if approved. The presence of at least one external member and supervisor is compulsory in the pre-submission seminar.
- 11.5** The pre-submission seminar cannot be permitted before one and half years from the date of registration.

## **12. CHANGE OF TITLE OF THE THESIS**

If the candidate thinks it necessary to change the title of the thesis in view of the new dimensions of the work, either on his own or at the suggestion of the Ph. D. Committee, he/she may apply to the Registrar before the presentation of the pre-submission seminar, along with the supervisor's approval. The Ph.D. Committee may permit such a change, provided that no scholar be entitled to change the title of the work (registered title) without written permission from the Registrar.

## **13. SUBMISSION OF THE THESIS**

- 13.1** On receipt of the permission from the Registrar after Pre-submission seminar, the candidate shall submit his/her thesis for adjudication within a period of one year from the date of pre-submission seminar. Before submission of his/her thesis the candidate shall apply to the Registrar together with (a) Supervisor's certificate, wherever applicable and (b) the letter containing the permission. The Registrar shall give permission within seven days, if the candidate complies with the Ph. D. Regulations.
- 13.2** The candidate shall submit five copies of the thesis (with two soft copies before the viva-voce in MS Word/Latex), six copies in case of joint supervision, together with six copies of synopsis. The Supervisor's certificate has to be submitted with the thesis. The scholar shall submit the synopsis (6 copies) consisting of 250-300 words on the summary and findings of the work and stating how the work contributes to the general advancement of knowledge.
- 13.3** The thesis shall be in typed or printed form and bound with a cover page inscribing only the title of the thesis, the name of the Researcher, Department, University and the year of submission.



**13.4** The candidate shall tender the prescribed submission fee as decided by the University authorities at the time of submission of the thesis.

**13.5** The candidate shall not be allowed to submit the thesis earlier than three years from the date of registration.

**13.6** The candidate cannot submit any work as his thesis for which a Degree / Diploma / other academic award has been conferred on him / her by this University or any other University or Institute. The candidate must make a declaration to this effect in his/her thesis.

**13.7** The Registrar shall communicate with the adjudicators for their consent within fifteen (15) days after receiving their name. The Registrar shall dispatch the thesis to the adjudicators within fifteen (15) days from the date of receiving the consent of the adjudicators. It shall be the responsibility of the Registrar to keep the names and addresses of the adjudicators confidential.

**13.8** Ph.D. scholars must publish at least one (1) research paper in refereed journal and make two paper presentations in conferences/seminars before the submission of the dissertation/thesis for adjudication, and produce evidence for the same in the form of presentation certificates and/or reprints.

**13.9** While submitting for evaluation, the dissertation/thesis shall have an undertaking from the research scholar and a certificate from the Research Supervisor attesting to the originality of the work, vouching that there is no plagiarism and that the work has not been submitted for the award of any other degree/diploma of the same Institution where the work was carried out, or to any other Institution.

**13.10** The thesis shall be an original contribution to knowledge and must therefore bear evidence that the scholar has carried out individual investigations in her / his chosen field.

**13.11** The University shall have the liberty to revoke any Ph.D. degree conferred duly, if subsequently charged with plagiarism.

**13.12** At the time of submission of thesis, the Ph.D. scholar will give his / her written consent for uploading the thesis on the website of Vidyasagar University / UGC / AIU etc. after the receipt of Ph.D. degree.

(i) In case of electronic communication – initially 15 days will be given for receiving consent from the adjudicators; after that period a reminder will be issued; after one week from issuing reminder, if response is not received, the adjudicators will be changed.

(ii) in case of postal communication – initially one month will be given for receiving consent from the adjudicators; reminder will be given on the 3<sup>rd</sup> week; if there is no response by the 6<sup>th</sup> week, the adjudicators will be changed.

(iii) The lists of research scholars who obtained Ph.D. degree provisionally will be uploaded on university website quarterly and the lists will be sent to the UGC & AIU for information.

**13.13** The Guidelines as prescribed by Modern Language Association be followed during the preparation of Ph.D. thesis.

**13.14** The size of the Ph.D. thesis and Font size will be as follows :

Size – A4, Font size – 12, Font – Times New Roman, Line spacing – 2.0

#### **14. LANGUAGE OF THE THESIS**

The thesis should generally be written in English, except language subjects other than English. If any candidate desires to submit thesis in any other language, he / she should take prior approval from the Vice-Chancellor. The Ph.D thesis written in language other than English should have copies of synopsis or abstract in English. However, the candidate may submit copies of synopsis or abstract of thesis written in any one additional nationally recognized / International language.

## **15. ADJUDICATORS**

**15.1** For the purpose of adjudicating the thesis, a panel of adjudicators (not below the rank of Associate Professor) prepared by the Supervisor(s) shall be considered and recommended by the Ph.D. Committee which shall consist of:

- (i) The supervisor(s) as specified in Regulation 4.1.
- ii) Six names, two from West Bengal, two from inside India (outside West Bengal) and two from abroad.

**15.2** The panel shall be prepared at the same meeting of the Ph.D. Committee in which the pre-submission seminar is organized.

**15.3** The Adjudicators shall be finally selected by the Vice-Chancellor and shall comprise the Supervisor/Supervisors, one examiner from outside the university and another from outside the State. It shall be up to the Vice-Chancellor to have one examiner from outside the country on grounds of academic reasons.

**15.4** Electronic media (computer, internet etc) shall be used for communication with the adjudicators, experts and candidates by the Registrar's Office in order to expedite the process of adjudication for which the scholar may be asked to reimburse the actual expenses, if necessary.

## **16. ADJUDICATION REPORT**

**16.1** An adjudicator on evaluation of the thesis shall furnish a report confidentially to the Registrar stating therein *inter-alia*, the following:

- (i) Whether the award of the Ph.D. degree to the candidate is recommended, and whether the thesis is fit for publication by the candidate in the form in which it was presented or with modification(s), if any or whether the thesis is considered to be of outstanding merit so that it would be advisable for the university to get it published at its own cost, provided the candidate agrees or;
- (ii) Whether the thesis though not acceptable in the present form for the award of the Ph.D. degree is likely to be acceptable after revision along with the lines as indicated in the report or;
- (iii) Whether the thesis is lacking in merit so as to render it liable to be rejected.

**16.2** If the thesis is revised in the light of the recommendations of the adjudicators, the adjudicators concerned shall thereafter furnish report either of the type mentioned in clause (i) or the type mentioned in clause (iii) of Regulation 14.1.

**16.3** If the thesis is adjudicated by more than one internal adjudicators, a joint report is to be submitted by them.

**16.4** The office shall make necessary efforts to dispatch thesis for adjudication within two months from the date of receipt of the thesis. However, awarding of the degree / completion of evaluation should be ensured within six months from the date of submission of the thesis.

**16.5** The adjudicator will submit the report within two months from the date of receipt of the thesis.

## **17. APPRAISAL OF THE ADJUDICATION REPORT**

**17.1** The adjudication reports shall be placed before the Vice-Chancellor immediately. If all the reports fulfill the conditions mentioned in Regulation 14.1 (i), the Registrar shall fix up a date for viva-voce in consultation with the Supervisor(s).

**17.2** In the event of two of the examiners recommending the award of the degree and the third recommending rejection of the thesis, the thesis shall be referred to a fourth examiner selected by the Vice-Chancellor from the original panel of examiners. The fourth examiner so appointed



shall not be informed of the recommendations of the other three examiners. The recommendation of the fourth examiner shall be final.

**17.3** In case of any ambiguity in the said reports, the entire matter be placed before the Board of Research Studies for appropriate decision within a period of two months.

**17.4** If two of the examiners, other than the Supervisor(s), recommend the rejection of the thesis, the thesis shall be rejected by the Vice-Chancellor and the Supervisor(s) be informed accordingly.

**17.5** If the thesis of the candidate is rejected, the registration of the candidate shall stand *ip so facto* cancelled.

## **18. VIVA-VOCE**

**18.1** If the adjudicators recommend the thesis for the award of the degree as specified in Regulations here above, the candidate shall be asked to appear for the viva-voce, which shall be openly defended by the candidate. The *viva-voce* examination shall be open to be attended by Members of the Ph. D. Committee, all faculty members of the Department, other research scholars and other interested experts/ researchers.

**18.2** The Supervisor (s) and the expert preferably out of the panel prepared under Regulation 13.1 shall be appointed by the Vice-Chancellor to act as Oral Examiners at the open viva-Voce. In case of non-availability of an expert for viva-voce from the panel, the Vice-Chancellor shall nominate an expert from a panel of three experts suggested by the Supervisor.

**18.3** Viva-Voce examination for Ph.D. may be held normally at the university with information to the Secretary, Ph.D. committee concerned.

**18.4** If the oral examiners are satisfied with the performance of the candidate at the viva-voce and submit a written report to that effect, the Vice-Chancellor shall recommend the award of the Degree to the candidate in the next Convocation and shall report to the Executive Council about the award of such degree. A Provisional Certificate shall be issued to the candidate to that effect within seven days after the viva-Voce examination. In the provisional certificate the university shall also certify that the Degree has been awarded in accordance with the provisions of the Regulation, 2016 of the UGC. This declaration shall also be incorporated in the Degree (final certificate) in an appropriate manner.

**18.5** If the candidate fails to satisfy the examiners in the open viva-voce, he/she shall be given two more chances to defend his / her thesis within one year from the date of such meeting. If the candidate fails to satisfy both the viva examiners on all the occasions, his/her thesis shall be rejected and his/her registration shall stand cancelled. In an eventuality that the thesis is rejected at the viva-voce finally, the examiners shall give specific reasons in writing on the basis of which the examiner(s) recommends rejection of the thesis provided (i) that the viva-voce examination has been conducted by the same examiners again unless his / her services were not available (ii) that in case of rejection as above, the matter be reported to the Board of Research Studies to recommend further action in the matter on the merit of the case.

**18.6** In the event of a scholar proceeding /staying abroad after the submission of his/her thesis, a competent expert in the field abroad may be appointed by the Vice-Chancellor as a special case on the recommendation of the Supervisor(s) from a panel of three foreign experts submitted by the Supervisor(s), if video conferencing is not possible. The scholar shall have to pay an additional fee as decided by the university authorities each time, if he / she is directed to appear again at the viva-voce examination after the original one.

## **19. RESUBMISSION**

**19.1** If a candidate is required to re-submit the thesis vide Regulation 15.2, the candidate may submit the revised thesis after a period of three months but not later than one year from the date of communication issued by the Registrar on payment of prescribed fee as decided by the University authorities.

**19.2** If the candidate fails to resubmit the thesis within one year as stated above, his / her registration shall be cancelled.

## **20. AWARD OF THE DEGREE**

(i) The Degree of Ph.D. will be awarded from the date on which Hon'ble Vice-Chancellor approves the degree after viva-voce of Ph.D.

(ii) The award of the Ph.D. Degree shall be given at the Convocation of the university, which is a meeting of the Court, if all the procedures as stated hereinbefore are fulfilled.

## **21. PRESERVATION OF THE THESIS**

**21.1** After the degree of Ph.D. is awarded, a soft copy of the thesis shall be submitted to the UGC within 30 days for hosting the same in INFLIBNET.

**21.2** The thesis may also be preserved in the following manner:

(i) One copy at the Central Library, both hard copy and in electronic form.

(ii) One copy at the Departmental Library, and if there is no Departmental Library, with the Ph.D. Section of the university.

## **22. INTERPRETATION / MODIFICATION OF RULES**

The powers of interpretation and modification of the Regulations here above are vested in the Executive Council of the University. Provided that any of the powers mentioned above (excluding those relating to modifications or changes in Rules) may be delegated to the Vice-Chancellor by a specific resolution of the Executive Council and subsequent notification and inclusion in CSR Notification to give effect to the changes.

## **23. Academic, administrative and infrastructure requirement to be fulfilled by colleges for getting recognition for offering Ph.D. programmes:**

**23.1** Colleges may be considered eligible to offer Ph.D programmes only if they satisfy the availability of eligible Research Supervisors, required infrastructure and supporting administrative and research promotion facilities as per these Regulations.

**23.2** Post-graduate departments of colleges, Research laboratories of Government of India/State Government with at least two Ph.D. qualified teachers/scientists/other academic staff in the Department concerned along with required infrastructure, supporting administrative and research promotion facilities as per these Regulations, stipulated under sub-clause 10.3, shall be considered eligible to offer M. Phil./Ph.D. programmes. Colleges should additionally have the necessary recognition by the Institution under which they operate to offer M. Phil/Ph.D. programme.

23.3 Colleges with adequate facilities for research as mentioned below alone shall offer M. Phil./ Ph. D. programmes:

23.3.1 In case of science and technology disciplines, exclusive research laboratories with sophisticated equipment as specified by the Institution concerned with provision for adequate space per research scholar along with computer facilities and essential software, and uninterrupted power and water supply;

23.3.2 Earmarked library resources including latest books, Indian and International journals, e-journals, extended working hours for all disciplines, adequate space for research scholars in the Department/ library for reading, writing and storing study and research materials.

The facilities provided by the college for the above purpose may be considered by the university after proper verification by the expert committee duly constituted by the university.

24. Treatment of Ph.D / M.Phil. through Distance Mode/Part-time:

24.1 The University shall not conduct M.Phil. and Ph.D. Programmes through distance education mode.

24.2 The university will allow Part-time Ph. D. provided all the conditions mentioned in the extant Ph. D. Regulations are met.



Office of the Registrar  
VIDYASAGAR UNIVERSITY

Midnapore - 721 102.

Dated : 03.09.2019.

NOTIFICATION

Amendment in the Ph.D. Regulations, 2016 of Vidyasagar University vide Clause 7.3.

This is to notify for general information that as approved by the Hon'ble Vice-Chancellor, the following amendment has been made in the Ph.D. Regulations, 2016 of Vidyasagar University vide Clause 7.3 regarding the tenure for submission of the progress report by the Research Scholars. Other portions of the said Clause will remain unchanged.

Amendment in Clause 7.3 : " *The Progress Report of the research work should be submitted to the Supervisor(s) by the Research Scholar(s) at an interval of Three Months (Quarterly).* "

In terms of the aforesaid amendment made by the University, all the Research Scholars of Vidyasagar University are hereby requested to submit their progress report of the research work quarterly to their respective guide/Supervisor(s) as per the revised format attached herewith, prescribed by the University for this purpose and the copy of the same to be submitted to the office of the undersigned forwarded by the concerned Supervisors as per the said provision of Ph.D. Regulations and countersigned by the Dean of the faculty concerned as per the prescribed format.

This Notification is issued with the approval of the competent authority.

Sd/-  
Registrar

Memo No.: VU/R/Noti./C0394 /2019 dated 03.09.2019.

Copy forwarded for information and necessary action to :

- (1) the Deans of the faculty concerned.
- (2) the Head of all academic departments.
- (3) the Secretary, Ph.D. Committee of all academic departments.
- (4) the Director of all Centres pursuing the Ph.D. Programme.
- (5) the Principal/Teachers-in-Charge of affiliated colleges who have run the Research Centres.
- (6) Information Scientist for uploading the notification on the University website.
- (7) the Office Supdt., Registrar's office.
- (8) the Secretary to the Vice-Chancellor for kind information to the Hon'ble Vice-Chancellor.
- (9) the Ph.D. Cell.

*[Signature]*  
Registrar 03/09/19

## QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore – 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in .....  
For the period from ..... to .....

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : .....
2. Name of Supervisor(s) : .....
3. Date of Registration for Ph.D. Degree : .....
4. Title of Research Work : .....
5. Details in respect of Research work carried out during the above mentioned period:  
.....  
.....

Yours Sincerely,

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty
<div>1. General intelligence &amp; keenness to learn: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>2. Initiative, Drive and Resourcefulness: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>3. Quality of Research Work: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>4. Willingness to shoulder additional responsibility and put in extra efforts: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>5. Punctuality in attendance: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>6. Amenability to discipline: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>7. Relations with colleagues and teachers (willingness to co-operate and collaborate): Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>8. Overall Grading: Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/></div> <div>Any other comment of the Supervisor(s):  ..... <div style="text-align: right;">Signature of the Supervisor (s)</div> ..... <div style="text-align: right;">Counter signed by the Dean of the concerned Faculty</div></div>

### Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

Date: 07/12/2023

To

The Secretary PhD Committee

Department of Geography, VU


**Sub: Research Advisory Committee members**

Dear Ma'am,

I would like to share the potential members of the Research Advisory Committee (RAC) for Mr. Avijit Ghorai, PhD candidate in the department on the topic: **"Assessing the Resilience of Water Infrastructures and Challenges of Water Allocations Under the Changing Climate and Rising Demand in the Kangsabati River Basin and Command Areas"**. Please do the necessary to form the RAC as per the rules of the PhD guidelines of the University and let me know further process if any.

Please see the names of the members. Need to mention that I have already taken consent of these potential members.

Yours sincerely

  
07/12/23

Kausik Ghosh

DR. KAUSIK GHOSH  
Assistant Professor  
Department of Geography  
VIDYASAGAR UNIVERSITY

**1) Dr. Meetpal S. Kukal, Ph.D.**

Designation: Assistant Research Professor

Department: Department of Agricultural and Biological Engineering

Institute: The Pennsylvania State University, 224 Agricultural Engineering Building

Shortlidge Road University Park, PA 16802

Email: [msk5779@psu.edu](mailto:msk5779@psu.edu)

Ph: (402)-219-3969

**2) Dr. Bhabagrahi Sahoo**

Designation: Associate professor

Department: School of Water Resources

Institute: Indian Institute of Technology (IIT) Kharagpur

Email: [bsahoo@swr.iitkgp.ac.in](mailto:bsahoo@swr.iitkgp.ac.in) ; [bsahoo2003@yahoo.com](mailto:bsahoo2003@yahoo.com)

Tel: 91-3222-281884 (Office)

Ph: 91-9434040967

Forwarded for RAC  
07/12/23

07/12/2023  
A. P. Paul  
07/12/2023



Date: 07/12/2023

To

The Secretary PhD Committee  
Department of Geography, VU

**Sub: Research Advisory Committee members**

Dear Ma'am,

I would like to share the potential members of the Research Advisory Committee (RAC) for Mr. Bidyut Barik, PhD candidate in the department on the topic: **"Investigating Groundwater Resources for Sustainable Irrigation Practices in the Kangsabati Command Area, West Bengal"**. Please do the necessary to form the RAC as per the rules of the PhD guidelines of the University and let me know further process if any.

Please see the names of the members. Need to mention that I have already taken consent of these potential members.

Yours sincerely

**1. Prof. Pennan Chinnasamy**

Associate Professor,  
IIT Mumbai  
Email- [p.chinnasamy@iitb.ac.in](mailto:p.chinnasamy@iitb.ac.in)  
Office phone no. - (022)-2576-7297

**2. Dr. Bramha Dutt Vishwakarma**

Assistant Professor  
Indian Institute of Science, Bangalore  
Email- [bramha@iisc.ac.in](mailto:bramha@iisc.ac.in)  
Contact no. +91-80-2293-2870/

**3) Francisco Munoz-Arriola, PhD (Optional)**

Associate Professor  
School of Natural Resources, Chase Hall (CHA) 246  
Lincoln NE 68583-0726, Phone: 402-472-0850  
[fmunoz@unl.edu](mailto:fmunoz@unl.edu)

DR. P. CHINNASAMY  
Assistant Professor  
Department of Geography  
VIT Vellore UNIVERSITY  
M. 2576-7297

Approved for RAC. pls.  
07/12/2023

07/12/2023  
07-12-2023

## Proposed List of subject Experts for PhD.RAC

Jaykumar Sahoo  Date of Admission: 14/07/2022	Supervisor Dr. Nilanjana Das Chatterjee Professor, Dept of Geography, VU	Title: Hydrological and Morphological Responses to Sand-mining Pits : A Study in Select Reaches of Kangsabati River, West Bengal, India	Prof. Ashis Kumar Paul, Department of Geography, Vidyasagar University.	Dr. Merry Biswas Department of Geography, Presidency University, Kolkata <a href="mailto:mery.geog@presiuniv.ac.in">mery.geog@presiuniv.ac.in</a>
Sudip Debnath  Date of Admission: 11/10/2022	Supervisor Dr. Nilanjana Das Chatterjee Professor, Dept of Geography, VU	Title: Assessment of Mangrove Habitat Restoration Practices in Indian Sundarbans.	Dr. Prasenjit Acharya Assistant Professor Vidyasagar University	Dr. Avijit Mitra Techno India University & former Head, Department of Marine Science, University of Calcutta. Email- <a href="mailto:abhijit_mitra@hotmail.com">abhijit_mitra@hotmail.com</a>

*[Signature]*  
08.12.2023

*[Signature]*  
7.12.2023

*[Signature]*  
08.12.2023

*[Signature]*  
08/12/2023

**DR. NILANJANA DAS CHATTERJEE**  
Professor & Head  
Department of Geography  
VIDYASAGAR UNIVERSITY  
Midnapore- 721102, W.B.





**Department of Geography**  
**Vidyasagar University**  
**Midnapore, Paschim Medinipur, West Bengal**  
**PIN – 721102**

Ref. No.

Date: 16-09-2023

**RAC Ph.D. REPORT**

**Name of the Candidate: BISWAJIT MAITY**

**Title of the Thesis: Local climate analysis of Haldia industrial town in West Bengal**

**Registration No. with date: 278/Ph.D. (Science) of 10.04.2019**

**Name of the Supervisor: Dr. Somnath Rudra**

**Date of RAC meeting: 16/09/2023**

**Report for the Period: 01/07/2022 to 16/09/2023**

**Members Present in the Meeting:**

- 1. External Experts:** a) Prof. Suman Paul, Dept of Geography, Sidho-Kanho-Birsha University  
b) Prof. Ramkrishna Maity, Dept of Geography, Vidyasagar University
- 2. Secretary, Ph.D. Committee:** Prof. Ashis Kr. Paul, Department of Geography, VU
- 3. RAC Convenor (Supervisor):** Dr. Somnath Rudra, Department of Geography, VU

**Research objectives:**

1. To analyze the spatio-temporal dynamics of urban landscape
2. To extract the land surface temperature in relation to changes in LULC
3. To assess and predict the carbon sequestration level
4. To evaluate the urban ecological sensitivity
5. To identify the suitable site for urban green space development

## PRECISE REPORT OF THE RESEARCH WORK DONE DURING THE PERIOD:

Research objectives	Research Progress	Remarks
To analyze the spatio-temporal dynamics of urban landscape	<ol style="list-style-type: none"> <li>1. LULC has been detected during 1991-2020.</li> <li>2. The land transformation, directional expansion of built-up area, and land use pattern in four municipalities have been analyzed.</li> <li>3. Finally, the built-up area for 2030 based on CA-Markov model and the model has been validated based on ROC-AUC curve.</li> </ol>	Works complete
To extract the land surface temperature in relation to changes in LULC	<ol style="list-style-type: none"> <li>1. The day time LST and UHI have been quantified.</li> <li>2. The correlation between LULC and UHI have been prepared.</li> <li>3. Night-time data has been analysis for UHs and UTFVI assessment.</li> </ol>	Works complete
To asses and predict the carbon sequestration level	<ol style="list-style-type: none"> <li>1. Carbon sequestration level and total carbon have been estimated.</li> <li>2. The sequestration level has been predicted for the year 2030.</li> <li>3. The valuation of carbon has been estimated based on price of carbon, annual market discount, and annual price change.</li> </ol>	Works complete
To evaluate the urban ecological sensitivity	<ol style="list-style-type: none"> <li>1. Urban ecological sensitivity (UES) has been assessed using integrated DEMATEL-VWC framework.</li> <li>2. Ward wise UES has assessed for sustainable urban planning.</li> </ol>	Works complete
To identify the suitable site for urban green space development	<ol style="list-style-type: none"> <li>1. Importance of urban green space on thermal cooling efficiency has been analyzed.</li> <li>2. The suitable sites for green space development for future sustainable urban development based on Random Forest model.</li> <li>3. The outcome of the model has been validated through ROC curve.</li> </ol>	Works complete

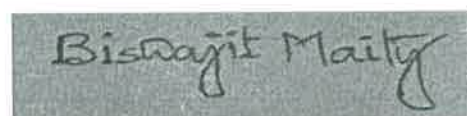
### Publications:

1. Maity, B., Mallick, S.K., & Rudra, S. (2020). Spatiotemporal dynamics of urban landscape in Asansol municipal corporation, West Bengal, India: a geospatial analysis. *Geojournal*. <https://doi.org/10.1007/s10708-020-10315-z>
2. Maity, B., Mallick, S.K., Das, P & Rudra, S. (2022). Comparative analysis of groundwater potentiality zone using fuzzy AHP, frequency ratio and Bayesian weights of evidence methods. *Applied Water Science*, 12:63. <https://doi.org/10.1007/s13201-022-01591-w>

### Future Plan (Sept. 2023- Oct. 2023)

First, I do express my sincere gratitude to the members of RAC for their valuable comments to improve my research work. Accordingly, I wish to complete my work before 31<sup>st</sup> Oct. 2023 based on the committee's recommendation. During this period the work will be on -

Research objectives	Future Plan
To analyze the spatio-temporal dynamics of urban landscape	1. Works complete. No need to further modification
To extract the land surface temperature relation to changes in LULC	1. Modification required for LST map of 2001 and 2011
To asses and predict the carbon sequestration level	1. Works complete. No need to further modification
To evaluate the urban ecological sensitivity	1. Use direction mark for D+R diagraph 2. Prepared UES map for the year 2011 3. Identify the changing patches
To identify the suitable site for urban green space development	1. Incorporate municipal ward boundary on UGS maps 2. Identify and suggest GS for the urban area




Signature of the Candidate

Date: 16-09-2023

### Remarks of RAC

Suggested Title of the thesis-

**Landscape dynamics in Asansol Urban Agglomeration: an ecological approach**




16-09-2023

SUMAN PAUL  
PROFESSOR OF GEOGRAPHY  
SIDHO-KANHO-BIRSHA UNIVERSITY  
PURULIA, W.B.

Signature of  
External Expert

Signature of Secretary  
(Ph.D. Committee)



DR. SOMNATH RUDRA  
Assistant Professor  
Dept. of Geography & EM  
VIDYASAGAR UNIVERSITY  
Nagore-721102, W. B.

Signature of RAC  
Convenor (Supervisor)



Office of the Department of Geography  
Vidyasagar University, Midnapore  
West Bengal, India, 721102  
Telephone: Office: (03222) 276554. Extension 447

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Ref. No.

Date: 18/03/2024

### **PhD Research Advisory Committee Report**

**Name of the scholar:** Avijit Ghorai

**PhD topic title:**

“Assessing the resilience of water infrastructures and challenges of water allocations under the changing climate and rising demand in the Kangsabati River basin and command areas”

**Date of enrollment:** 13/10/2022

**Registration No. with date:** 1210/Ph.D. (Sc.) Date: 06/12/2023

**Name of the Supervisor:** Dr. Kausik Ghosh

**Date of 1<sup>st</sup> RAC meeting:** 18/03/2024

**Report for the Period:** 13/10/2022 to 18/03/2024

#### **Research Advisory Committee (RAC) members:**

Member 1

**Meetpal S. Kukal, Ph.D.** (he/him)

Designation: Assistant Research Professor

Department: Department of Agricultural and Biological Engineering

Institute: The Pennsylvania State University, 224 Agricultural Engineering Building  
Shortlidge Road University Park, PA 16802

Member 2

**Dr. Bhabagrahi Sahoo**

Designation: Associate professor

Department: School of Water Resources

Institute: Indian Institute of Technology (IIT) Kharagpur

#### **Secretary, Ph.D. Committee:**

Dr. Nilanjana Das Chatterjee

Professor, JIOD

Department of Geography, Vidyasagar University

**RAC Convener (Supervisor):**

Dr. Kausik Ghosh  
Assistant professor,  
Department of Geography, Vidyasagar University

**PRECISE REPORT OF THE RESEARCH WORK DONE DURING THE PERIOD:**

**October 2022 to December 2023**

- 1) Selection of the research topic
- 2) Literature review
- 3) Selection of the study area
- 4) Identifying research objectives
- 5) Selection of methods and technique
- 6) Paper writing for publication
- 7) PhD registration

**January 2024 to March 2024**

- 1) Published a research paper in the CATENA journal

*Ghorai, A., & Ghosh, K. (2024). Enhanced river regulation following dam reoperation: Impacts on flow regime, sediment transport, and planform adjustment in a plateau river basin in the lower Ganga plains. Catena, 237, 107834.*

- 2) River hydrological data sets were collected from the Irrigation and Waterways Department.
- 3) Conducted 1<sup>st</sup> Research Advisory Committee Meeting.

**Coming six-month work plan (March 2024 to September 2024)**

- 1) Will address all the comments and suggestions provided by the RAC members.
- 2) Try to complete the 1<sup>st</sup> objective: "To explore the impact of climate change and societal demand on reservoir storage, canals, and barrages/anicut using hydro-climate data"

**Signature of the Candidate:**

*Avijit Ghorai*

**Date** *18/03/2024*

## Remarks of 1<sup>st</sup> RAC meeting:

### **Suggestions given by Dr. Bhabagrahi Sahoo**

1. The research title is too lengthy so it should be concise and more specific (river basin can be dropped as it does not cover entire river basin. focus should be on command areas).
2. Need to work in details objective-specific methodologies.
3. Need to specify the data for future scenario analysis, and consider the Socioeconomic pathways (SSPs) for analyzing future socioeconomic changes.
4. Specify the data and methodology for calculating the impact of climate change and societal demand on reservoir storage.
5. Explore the methods for calculating effective rainfall.
6. Explore the reservoir evaporation estimation method.
7. Consider how agricultural land has changed over the decades, and also take into account the crop diversification in this region.

### **Suggestions given by Dr. Meeta S. Kukal**

1. Need to explore the local crop coefficient data for crop water demand estimation.
2. The study area is drought-prone so therefore it is important to consider the soil moisture status for crop water demand estimation.
3. Need to explore the spatial resolution of climate data for crop water demand estimation.
4. Need to explore the locally measured soil properties for evapotranspiration estimation.
5. Need to explore the runoff model for effective rainfall estimation because the FAO ignored runoff with more generalization of study area.

1. Signature of RAC member 1: ..... 

2. Signature of RAC member 2: ..... 

2. Signature of Secretary, Ph.D. Committee: ..... 

DR. NILANJANA DAS CHATTERJEE  
Professor  
Department of Geography  
VIDYASAGAR UNIVERSITY  
Midnapore - 721102, W.B.

4. Signature of RAC Convener (Supervisor): ..... 

DR. KAUSIK GHOSH  
Assistant Professor  
Department of Geography  
VIDYASAGAR UNIVERSITY  
Midnapore - 721102, W.B.



Vidyasagar University

Medinipur 721102

Telephone: (03222) 275297 / 276554 / 276555 / 276557 / 276558 Extension 438

Fax: (03222) 275329 • E-mail: vidya295@sancharnet.in

**ATTENDANCE RECORD**

**RAC Meeting  
Centre for Environmental Studies (CES)  
Vidyasagar University**

**Supervisor:** Dr. Sumahan Bandyopadhyay  
Professor  
Department of Anthropology

(Approval vide No.: VC/ 1438/2024 dated 04.04.2024)

Date of Meeting: 07.05.2024

Sl. No.	Name of the Scholar	Registration No.	Signature
1.	Nityananda Shit	702/Ph.D/ SC.	Nityananda Shit 07.05.24
2.	Atanu Sen	298/Ph.D./ (SC.)	Atanu Sen. 07.05.2024



**VIDYASAGAR UNIVERSITY**  
**MEDINIPUR 721102**

Telephone: (03222) 275297 / 276554 / 276555 / 276557 / 276558 Extension 438  
Fax: (03222) 275329 • E-mail: VIDYA295@SANCHARNET.IN

Office of the Vice-Chancellor  
VIDYASAGAR UNIVERSITY

Date: 4/4/24  
Time: 2:30 PM

Signature

Date- 04/04/24

To  
The Hon'ble Vice-Chancellor  
Vidyasagar University  
Midnapore

(Through Director, CES, V.U)

**Sub: Kind Approval for the Meeting of RAC**

Respected Sir,

I have the honour to intimate you that I would like to organize the meeting of the RAC for my Ph.D. Research Scholars in Centre for Environmental Studies with the following members subject on your kind approval for the committee and for the dates and times as mentioned in the table below. I have also contacted the expert Dr. Pradip Kr. Bhowmick, Former Assoc. professor, Rural Development Centre, IIT, Kharagpur and Internal members of the RACs and obtained their consent.

Sl. No.	Name of the Scholar	Name of the Members	Date & Time
1	Nityananda Shit	Supervisor- Prof. Sumahan Bandyopadhyay External Member- Dr. Pradip Kr. Bhowmick, Former Assoc. professor, Rural Development Centre, IIT, Kharagpur Internal Member- Dr. Joydev Maity, Department of Fishery Sciences, V.U Secretary, Ph.D. Comm.,- Dr. Jatisankar Bandyopadhyay, Director, CES, VU	07.05.2024 & 11.30am
2	Atanu Sen	Supervisor- Prof. Sumahan Bandyopadhyay External Member- Dr. Pradip Kr. Bhowmick, Former Assoc. professor, Rural Development Centre, IIT, Kharagpur Internal Member- Professor Ramkrishna Maity, Dept. of Geography, V.U Secretary, Ph.D. Comm.,- Dr. Jatisankar Bandyopadhyay, Director, CES, VU	07.05.2024 & 12.00

I would earnestly request your honour for the kind approval for the committee and holding the meeting and oblige.

With best regards,

Prof. Bandyopadhyay  
Approved  
04/04/2024

Yours Sincerely,

(Dr. Sumahan Bandyopadhyay)

Professor

Department of Anthropology, Vidyasagar University &

Convener

RACs for Nityananda Shit and Atanu Sen

Forwarded  
for kind consideration

04/04/24

DR. JATISANKAR BANDYOPADHYAY  
Director  
Centre for Environmental Studies (CES)  
Vidyasagar University  
Midnapore - 721102, West Bengal



## **Ph.D. Research Progress Report for RAC**

Name of Research Scholar: Nityananda Shit

Name of Department: Centre for Environmental Studies (CES)

Name of Supervisor: Dr. Sumahan Bandyopadhyay

Designation of Supervisor: Professor, Department of Anthropology, Vidyasagar University

Ph.D. Registration No: 702/ Ph.D./ Sc.

Date of Ph.D. Registration: 30.03.2022

University Registration No: 070453 of 2011-2012

Date of 2<sup>nd</sup> RAC: 7<sup>th</sup> May, 2024

Title: "Increasing brackish water shrimp farming and its impact of agricultural land and surrounding environment: A case study of Bhagwanpur-I block, Purba Medinipur, West Bengal, India".

Work done for Ph.D. research work till 1<sup>st</sup> RAC is mentioned below:

1. My Ph.D. course registered on 30.03.2022
2. My coursework was completed successfully in 2022.
3. literature review relevant to the present study has been done.
4. Pilot survey has been conducted.
5. I have prepared the questionnaire and survey schedule.
6. Field data collected starting from Gurgram Gram Panchayet areas such as Gurgram, Purba Gurgram, and Garbhera villages.

Work done for Ph.D. research work till 2<sup>nd</sup> RAC is mentioned below:

1. I have reviewed 4 books and several articles relevant to the present research using the JSTOR archive.
2. Out of these three villages, two villages namely Gurgram and Buraburi area were surveyed and data collection was done.
3. I have visited of Purba Medinipur district Fishery Dept. and collected some information related to the guidelines for regulating coastal aquaculture, production, and block-wise status report of brackish water area registered with CAA.
4. I participated in the three-day skill development training program at CSIR-CMERI in Durgapur: Analytical techniques and instrumentation for water quality assessment.

5. The write-up on chapters I and II has been done.

Work plan for the next six months:

1. To do data collection and data entry.
2. To start data analysis and interpretation.

Work done for Ph.D. research work till date is mentioned below in the following heading.

### **1. Review of Literature:**

An extensive review of books, journals, and other relevant articles has been made thoroughly. The list of these studied literature is as follows:

#### **a. Books:**

- i. Badapanda, K.C. (2012). Fishery Economics and Administration. Narendra Publishing House, New Delhi.
- ii. Flaherty, M., Sasmal, K., Pradhan, D., & Ray, S. (2009). Coastal Aquaculture in India: Poverty, Environment and Rural Livelihood. Concept Publishing Company. New Delhi.
- iii. Hambrey, J., Phillips, M., Chowdhury, K., & Shivappa, R. (1999). Composite Guidelines for the Environmental Assessment of Coastal Aquaculture Development. East Africa Coastal Area management, Bangkok.
- iv. Jena, J.K., Gopalakrishnan, A., Pandey, A.K. (2006). Handbook of Fisheries and Aquaculture. Indian Council of Agricultural Research, New Delhi.

#### **Research articles & Reports:**

- i. Akteruzzaman, M. (2005). Shifting rice farming to fish culture in some selected areas of Mymensingh, Bangladesh: the process, conflicts, and impacts. Bangladesh Journal of Fisheries Research, 9 (1), 97-99, pp
- ii. Bera, T.K., Patra, B.C., & Rana, G.C. (2015). Socio-economic aspects on paddy alternate fish culture at Moyna block, Purba Medinipur District, West Bengal, India. International Journal of Current Research. 7(8), 18929-18935.
- iii. Census of India, 2011
- iv. Das, G.K. (2018). A Geo-Spatial analysis and assessment of groundwater potential zones by using Remote Sensing and GIS technique-A micro level study of Bhagwanpur -1 CD block in Purba Medinipur. International Journal of Experimental Review. 14, 9-19
- v. Das, R., & Mondal, M. (2021). Huge and Hasty Growth of Shrimp Culture and Distress to Society and Environment of Fluvio-Coastal Khejuri over Rasulpur Basin in West Bengal. JETIR. 8 (5), 409-430.

- vi. District survey Handbook of Purba Medinipur, 2013-2014.
- vii. Indian Metrological Report, 2008.
- viii. Kumar, A.K., Ottinger, M., Wei, C., Leinenkugel, P. (2019). Assessment of Coastal Aquaculture for India from Sentinel-1 SAR Time Series. MDPI.11(3):357
- ix. Mondal, S. and Roy, T. (2020). A case study of Rural Settlement with aspects of socio-economic movement and GIS in Bhagwanpur-1 CD block. Studies in Indian Places Names. 40(50). 1650-1669.
- x. National Bureau of Soil Survey Report.

## **2. Library work:**

I have visited the Central Library, Vidyasagar University, Midnapore and Midnapore District Library studied more relevant books, and journals, and published documents on Inland fishery, Shrimp culture, and associated activities.

## **3. Field work:**

First, Field work has been conducted after a pilot survey in the villages of Gurgram, Buraburi, and Garbhera under the Bhagwanpur -1 block. Then, the information obtained from the Vennamei farmers and agricultural farmers was collected in the Gurgram Grampranchayet of this block. Out of these three villages, two villages namely Gurgram and Buraburi area were surveyed from 150 households, those who leased the land and those who did not lease land. Data was collected from 50 fish farmers and about 150 farmers' families in this block. Also, I have visited of Purba Medinipur District Fisheries Department and collected some information.

## **4. Chapter writing:**

As per my chapterization, I have completed writing the first two chapters. These include the Introduction and study area (physical and socio-economic features).

Nityananda  
7/05/24  
shut

## Report of the meeting of R A C

1. Name of the Candidate : NITYANANDA SHIT
2. Name of the Department : centre for Environmental Studies (CES), V. U.
3. Title of the Thesis : Increasing brackish water shrimp farming and its impact on agricultural land and surrounding environment : A case of Bhogwanpur-I block, Purba Medinipur, West Bengal, India
4. Registration No With date & year: 702/Ph.D./Se., Dt. - 30.03.2022
5. Name of the Supervisor(s) : Sumahan Bandyopadhyay
6. Date of meeting of R A C : 07-05-2024
7. Progress of Research Work : 13-09-23 to 07-5-24  
(With specific Date/ tenure)
8. Comments of the members of RAC: The members of the RAC are of opinion that the scholar has completed fieldwork in one village and has been doing fieldwork in another village. He visited the office of the Fisheries Deptt. in the district to collect necessary information. Chapters one and two have been written.
9. Specific suggestions, if any : The scholar is advised to complete the fieldwork. He is advised to find the reason why a large amount of bheri has not been used for farming in recent time. He is required to inquire into the factors influencing the leasing out of the agricultural lands and the background of the lessee and investors.
10. Remarks : The progress of work is satisfactory.

(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee

Signature of the External Expert

Signature of the Member

Signature of the Supervisor

*Bandyopadhyay* 07/5/24  
*Pradip Ghosh* 7.5.2024  
*Jaydev Maity* 7/5/24  
*Sumahan Bandyopadhyay* 7/5/24

## Ph.D. Research Progress Report for RAC

**Name of Research Scholar:** Atanu Sen

**Name of Supervisor:** Dr. Sumahan Bandyopadhyay

**Designation of Supervisor:** Professor, Department of Anthropology, Vidyasagar University

**Ph.D. Registration No.:** 298 / Ph.D. (Sc.)

**Date of Ph.D. Registration:** 21.01.2021

**University Registration No.:** R170040 of the year 2020-2021

**Date of 3<sup>rd</sup> RAC-** 07.05.2024.

**Title:** “Selected Folk Crafts in Relation to environment economy and culture in Jangalmahal region of West Bengal.”

Works done for Ph.D. research work till date are mentioned below in following heading:

### 1. Review of Literature:

An extensive review of previous books, journals and other relevant articles has been made thoroughly. The list of these studied literatures is as follows

#### a. Books:

Bandopadhyaya, A. (2017). *Banglar Terracotta*. Bhasapath.

Biswas, S, S. (2023). *Terracotta Art of Bengal*, Delhi, *Agam Kala Prakashan*.

Dandapat, G., Chatterjee, K. (2024). *Chou: Shilpider Mukhomukhi*. Parchment.

Ghosh, C, F. (2022). *Jangalmahaler Loksamaj Loksahitya o Loksanskriti*. Kabitika.

Pal, S. (2017). *Banglar Terracotta*. Asian Publication.

Sen, S. (2017). *Muksohshilpo. Loksanskriti o Adivasi Sanskriti Kendra*.

Soni, L., Kulkarni, F. (2009). *Crafts and Craftsmanship (Studies in Traditional Knowledge in India (Volume-1)*. Anthropological Survey of India, Kolkata.

#### **b. Research articles:**

Ghosh, K, B. (2014). Economics of Eco-friendly Terracotta Products in Bankura District of West Bengal. *Journal of Economics and Development Studies*. 2(2). 233-245.

Satpathi, K, M. (2011).Terracotta Craft of Panchmura: Problems and Possibilities. *Chitrolekha International Magazine on Art and Design*. 1(2). 61-74.

Rahman, T., Kumar, D. (2018). Problems and Prospects of Cottage Industry in Khulna Division of Bangladesh: An Empirical Assessment. *Journal of Business and Management*. 20(6). 45-52.

Bhattacharjee, P. (2021). A Contemporary Case Study on Terracotta Craft and Its Worker in Panchmura: West Bengal. *Universe International Journal of Interdisciplinary Research*. 1(11). 171-178.

Aich, S. (2019). The Light of Panchmura Terracotta: A Path-Breaking Creativity. *Infokara Research*. 8(11). 1277-1292

Pal, B., Pal, M. (2015). Panchmura-‘The Heart of Bengal Terracotta Pottery’ Problems and Prospects. *Journal of International Academic Research for Multidisciplinary*. 3(11). 117-122.

Sahoo, M, P., Joddar, P., Biswas, S., Srakar, B. (2016). The Significance of Terracotta Cottage Industry in the Socio-Economic Livelihood of People- A Case Study of Bankura Terracotta Craft Hub. *International Journal of Current Research*. 8(1). 25800-25806.

#### **2. Library work:**

I have visited the Central Library, Vidyasagar University, Midnapore along with District Library, National Library and studied more relevant books, journals and published documents on Folk crafts.

#### **3. Field work:**

The initial field visit has been conducted in Charida village of Purulia, which is popular as ‘Mukhosh Gram’. In the month of December, 2021 I have completed my field survey in said village. Later on in the month of November, 2022, I have

completed our field survey in Panchmura village which is famous for making Terracotta crafts. Finally in the month of December 2022 and January, 2023 I have completed my field survey in Susunia village which is famous for making Stone crafts. The entire field work have successfully completed within stipulated timeframe.

#### **4. Collection of Primary and Secondary database:**

- i. The field survey has been conducted in Charida, Panchmura and Susunia village and collected primary database to analyze how the geographical factors are responsible for concentration of Chau craft, Terracotta and stone craft sector, in respective craft villages. In addition the socio-cultural and demographic database of artisans have also been collected.
- ii. The collection of Secondary database regarding demographic, socio-economic profile of Charida, Panchmura and Susunia village has been started.
- iii. The field data has been collected on economic profile of artisans, organization and participation in craft fairs and festivals, craft marketing and business strategies.
- iv. The in depth tourists interview has been taken to gather tourist's information, tourist's perception regarding utility value of selected craft items.
- v. The perception of local resident artisans has been recorded regarding environmental concern, opinionaries regarding impact of craft production on concurrent environment and vis-à-vis to analyze how much the craft practice acts as a sustainable rural economy.
- vi. The primary database has been collected on major problems and prospects of the craft sector in selected craft villages.

#### **5. Chapter Writing:**

The following chapters have been prepared based on collected raw data from the said craft villages.

- i. Chapter -1 :Introduction
- ii. Chapter-2: Geographic al distribution and factors for craft concentration.
- iii. Chapter -3: Selected Folk Craft products and their techniques of productions.
- iv. Chapter: 4: Environmental concerns of Folk Craft production:
- v. Chapter-5: The socioeconomic profile of craftsman community in selected craft villages.
- vi. Chapter-6: Contemporary marketing strategies of folk crafts.

## 6. Publications and presenting paper in Seminar/Conference:

### a. Seminar/conference Paper presentation:

Sen. A. (2023). "Art and Craft Tourism as a Direction of Regional Sustainable Tourism Development: A case study of Bishnupur town". Centre for the Study of Regional Development. School of Social Sciences. National Seminar on "Locational Perspective of Evolution of Culture, Knowledge and Wisdom in India". November 3-4, 2023 at Jawaharlal Nehru University (JNU), New Delhi.

### b. Article in Journal:

- i. Sen, A. (2024). Measuring Labour Efficiency - A Case Study in the Terracotta Craft Village of Bankura, West Bengal, India. *Indian Journal of Spatial Science*. 15(1).51-62. ISSN: 2249 – 3921. <https://doi.org/10.5281/zenodo.10911984>

## Research Progress made after the Last RAC

Different Works done	Work done as on 1 <sup>st</sup> RAC	Work done as on 2 <sup>nd</sup> RAC	Work done as on 3 <sup>rd</sup> RAC
Data Collection from different government offices	Nil	Full	Full
Library work and Literature Review	Around 3 books accessed from Vidyasagar University Central Library and also from other sources and 12 papers from different sources have been studied and reviewed thoroughly	Theses from Infilbnet relevant to the present work have been critically studied and also around 2 books have been studied. I have also tried to explore the similar works done in last 20 years from Reserachgate and N-List portal.	Theses from Infilbnet relevant to the present work have been critically studied and also around 2 books have been studied collected from Kolkata International Book Fair.



Collection of Data about StudyArea	Only Charida village of Purulia district is covered for data collection.	Data collected from Panchmura and Susunia village of Bankura district.	All database have been collected, sorted and tabulated
Preparation of Questionnaire Schedule	Have been prepared and finalized by testing through Fieldwork and Schedules have employed in the field survey conducted at Charida village, Purulia, for the collection of data	Have been prepared and finalized by testing through Fieldwork and Schedules have employed in the field survey conducted at Panchmura and Susunia village, Bankura, for the collection of data	After administering questionnaire survey the collected data have been analyzed item wise.
Data collection from the field area	Around 50 artisans and 50 tourist's have been surveyed through fieldwork in Charida village, Purulia.	Around 50 artisans and 50 tourist's have been surveyed through fieldwork in both Panchmura and Susunia village of Bankura district.	Data collection from selected craft villages have been completed.
Paper Presented in Seminar(s)	Yes	Yes	Yes
Publication(s)	Yes	Yes	Yes
Write up	Drafting and write up on i. Introduction, ii. Geographical Distribution and factors for craft concentration.	Drafting and write up on iii. Selected Folk Craft products and their techniques of productions. iv. Environmental concerns of Folk Craft production.	Drafting and write up on vi. Contemporary marketing strategies of folk crafts. viii. Conclusion (in progress)

		v. The socioeconomic profile of craftsman community in selected craft villages. (Writing in progress)	
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## **Ph.D. Research Progress Report for RAC**

**Name of Research Scholar:** Atanu Sen

**Name of Supervisor:** Dr. Sumahan Bandyopadhyay

**Designation of Supervisor:** Professor, Department of Anthropology, Vidyasagar University

**Ph.D. Registration No.:** 298 / Ph.D. (Sc.)

**Date of Ph.D. Registration:** 21.01.2021

**University Registration No.:** R170040 of the year 2020-2021

**Date of 3<sup>rd</sup> RAC-** 07.05.2024.

**Title:** “Selected Folk Crafts in Relation to environment economy and culture in Jangalmahal region of West Bengal.”

Works done for Ph.D. research work till date are mentioned below in following heading:

### **1. Review of Literature:**

An extensive review of previous books, journals and other relevant articles has been made thoroughly. The list of these studied literatures is as follows

#### **a. Books:**

Bandopadhyaya, A. (2017). *Banglar Terracotta*. Bhasapath.

Biswas, S, S. (2023). *Terracotta Art of Bengal*, Delhi, *Agam Kala Prakashan*.

Dandapat, G., Chatterjee, K. (2024). *Chou: Shilpider Mukhomukhi*. Parchment.

Ghosh, C, F. (2022). *Jangalmahaler Loksamaj Loksahitya o Loksanskriti*. Kabitika.

Pal, S. (2017). *Banglar Terracotta*. Asian Publication.

Sen, S. (2017). *Muksohshilpo*. Loksanskriti o Adivasi Sanskriti Kendra.

Soni, L., Kulkarni, F. (2009). *Crafts and Craftsmanship (Studies in Traditional Knowledge in India (Volume-1)*. Anthropological Survey of India, Kolkata.

completed our field survey in Panchmura village which is famous for making Terracotta crafts. Finally in the month of December 2022 and January, 2023 I have completed my field survey in Susunia village which is famous for making Stone crafts. The entire field work have successfully completed within stipulated timeframe.

#### **4. Collection of Primary and Secondary database:**

- i. The field survey has been conducted in Charida, Panchmura and Susunia village and collected primary database to analyze how the geographical factors are responsible for concentration of Chau craft, Terracotta and stone craft sector, in respective craft villages. In addition the socio-cultural and demographic database of artisans have also been collected.
- ii. The collection of Secondary database regarding demographic, socio-economic profile of Charida, Panchmura and Susunia village has been started.
- iii. The field data has been collected on economic profile of artisans, organization and participation in craft fairs and festivals, craft marketing and business strategies.
- iv. The in depth tourists interview has been taken to gather tourist's information, tourist's perception regarding utility value of selected craft items.
- v. The perception of local resident artisans has been recorded regarding environmental concern, opinionaries regarding impact of craft production on concurrent environment and vis-à-vis to analyze how much the craft practice acts as a sustainable rural economy.
- vi. The primary database has been collected on major problems and prospects of the craft sector in selected craft villages.

#### **5. Chapter Writing:**

The following chapters have been prepared based on collected raw data from the said craft villages.

- i. Chapter -1 :Introduction
- ii. Chapter-2: Geographic al distribution and factors for craft concentration.
- iii. Chapter -3: Selected Folk Craft products and their techniques of productions.
- iv. Chapter: 4: Environmental concerns of Folk Craft production:
- v. Chapter-5: The socioeconomic profile of craftsman community in selected craft villages.
- vi. Chapter-6: Contemporary marketing strategies of folk crafts.

Collection of Data about Study Area	Only Charida village of Purulia district is covered for data collection.	Data collected from Panchmura and Susunia village of Bankura district.	All database have been collected, sorted and tabulated
Preparation of Questionnaire Schedule	Have been prepared and finalized by testing through Fieldwork and Schedules have employed in the field survey conducted at Charida village, Purulia, for the collection of data	Have been prepared and finalized by testing through Fieldwork and Schedules have employed in the field survey conducted at Panchmura and Susunia village, Bankura, for the collection of data	After administering questionnaire survey the collected data have been analyzed item wise.
Data collection from the field area	Around 50 artisans and 50 tourist's have been surveyed through fieldwork in Charida village, Purulia.	Around 50 artisans and 50 tourist's have been surveyed through fieldwork in both Panchmura and Susunia village of Bankura district.	Data collection from selected craft villages have been completed.
Paper Presented in Seminar(s)	Yes	Yes	Yes
Publication(s)	Yes	Yes	Yes
Write up	Drafting and write up on  i. Introduction, ii. Geographical Distribution and factors for craft concentration.	Drafting and write up on  iii. Selected Folk Craft products and their techniques of productions. iv. Environmental concerns of Folk Craft production.	Drafting and write up on  vi. Contemporary marketing strategies of folk crafts.  viii. Conclusion (in progress)

## Report of the meeting of R A C

1. Name of the Candidate : ATANU SEN
2. Name of the Department : Centre for Environmental Studies (CES), V. U.
3. Title of the Thesis : Selected Folk Crafts in Relation to environment, economy and culture in Tangal Mahal region of West Bengal
4. Registration No With date & year: 298/Ph.D. (Sc.) , Dt. 21.01.2021
5. Name of the Supervisor(s) : Sumahan Bandyopadhyay
6. Date of meeting of R A C : 07-05-2024
7. Progress of Research Work : 13-9-23 to 07.5.24  
(With specific Date/ tenure)
8. Comments of the members of R A C: The members of the RAC are of opinion that the scholar has completed fieldwork and drafted all but one chapter. He has also made publications and presented paper in seminar.
9. Specific suggestions, if any : The Scholar is advised to prepare for pre-submission.
10. Remarks : The progress of work is satisfactory

(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee

Signature of the External Expert

Signature of the Member

Signature of the Supervisor

*Bandyopadhyay*

07/05/2024  
Pradip Ghosh

*Ranjana Kanti Ghosh*

Sumahan Bandyopadhyay  
7/5/24

PROGRESS REPORT OF THE RESEARCH SCHOLAR

To

The Registrar

Vidyasagar University

Midnapore – 721102

West Bengal, India

Sub: RAC report for the Ph.D. Programme in Microbiology for the period from 01.07.2022 to 09.02.2024.

Sir,

I submit herewith the attached report for RAC assessment of my Ph.D. research work for your kind information.

1. Name of Research Scholar: Kalyanbrata Pal.
2. Name of Supervisor(s): Dr. Suman Kumar Halder
3. Date of Registration for Ph.D. Degree: 29.04.2021
4. Title of Research Work: **“Evaluation of Microbially Decomposed Crustacean Shell Waste as Potential Fertilizer”**
5. Details in respect of Research work carried out during the above mentioned periods: As attachment.

Yours Sincerely,

*Kalyanbrata Pal*

09.02.2024

[Signature of the Candidate with Date]

# VIDYASAGAR UNIVERSITY

## Department of Microbiology

### RAC REPORT OF PHD RESEARCH WORK

Name of the Candidate	Kalyanbrata Pal
Name of the Supervisor	Dr. Suman Kumar Halder
Name of the Co Supervisor (if any)	-----
Subject of Research	Microbiology
Registration No. with Date	Registration No: 415/PhD. (Sc). with date 29.04.2021
Title of the PhD Thesis	<b>“Evaluation of Microbially Decomposed Crustacean Shell Waste as Potential Fertilizer”.</b>
Aim & Objectives of PhD Work	<i>Aim:</i> Evaluation of fertilizing potential of microbially decomposed crustacean shell waste. <i>Objectives:</i> <ul style="list-style-type: none"><li>• Isolation and screening of microorganisms capable to decompose crustacean shell waste.</li><li>• Optimization of the process of partial decomposition of crustacean shells by the selected microorganism(s).</li><li>• Analysis of physico-chemical composition of both native and decomposed shell waste.</li><li>• Comparative analysis of the fertilizing potential of native (untreated) and decomposed crustacean shell waste.</li></ul>
Report for the Period	01.07.2022 - 09.02.2024
Date of Earlier Report	30.06.2022

Precise report of the research work done during the above period	
1	Collection and Preparation of crustacean shell powder.
2	Isolation and screening of chitino-proteolytic microorganism and identification of the potent isolate.
3	Fermentative decomposition of crustacean shell and process optimization.



# VIDYASAGAR UNIVERSITY

## Department of Microbiology

4	Assay of enzymes and enzymolytic products.
5	Evaluation of fertilizer potential of microbially decomposition crustacean shell.
6	Physico-chemical and microbial analysis of tested soil.
8.	Evaluation of morpho-physiological parameters of plant.
9	Literature review on the next objective of the research work and designing of the experiment. Sub-culturing of the experimental micro-organisms for their revival and study of the potentiality (Chitinase and protease).

Signature of the Candidate:

*Kalyanbrata Pal*

Date & Place:

30.06.2022, Midnapore

Observations of Supervisor(s):

*The fellow completed all the objectives of his PhD proposal. He can be permitted for PhD-submission if RAC approve the same.*

*Shadr 9/2/24*

[Signature of the Supervisor(s)]

Remarks of RAC:

Candidate Name: Kalyanbrata Pal

*Recommendation of RAC:*

*The work done by Mr Kalyanbrata Pal is impressive. He has completed all the objectives of his Ph.D. proposal. Therefore, the RAC recommended for submission of his Ph.D thesis*

*Rita Ghosh*  
09-02-2024

Signature of External Expert:

*Prof Dr. Rita Ghosh.*  
Retd. Professor,  
Dept. of Biochemistry &  
Biophysics,  
University of Kalyani,  
Kalyani.

Signature of Internal Expert:..

Signature of Secretary, Ph.D. Committee/HoD:

*Shadr 9/2/24*  
Signature of RAC Convenor (Supervisor):

To

The Registrar

Vidyasagar University

Midnapore – 721102

West Bengal, India

Sub: RAC report for the Ph.D. Programme in Microbiology for the period from  
01.07.2022 to 08.02.2024

Sir,

I submit herewith the attached report for RAC assessment of my Ph.D. research work for  
your kind information.

1. Name of Research Scholar: Subham Rakshit.
2. Name of Supervisor(s): Dr. Suman Kumar Halder
3. Date of Registration for Ph.D. Degree: 10.10.2018
4. Title of Research Work: "Enzymatic Extraction of Chitosan from Crustacean Shells  
and Evaluation of its Bioactive Potential"

*Subham Rakshit.*, 09.02.2024

[Signature of the Candidate with Date]

**VIDYASAGAR UNIVERSITY**  
Department of Microbiology

**RAC REPORT OF PHD RESEARCH WORK**

Name of the Candidate	Subham Rakshit
Name of the Supervisor	Dr. Suman Kumar Halder
Name of the Co Supervisor (if any)	
Subject of Research	Microbiology
Registration No. with Date	Registration no. 091/Ph.D/Sc. Registration effect from: 10.10.2018
Title of the PhD Thesis	Enzymatic Extraction of Chitosan from Crustacean Shells and Evaluation of its Bioactive Potential
Aim & Objectives of PhD Work	<ul style="list-style-type: none"><li>• Extraction of chitin and chitosan from crustacean shells using microbial enzymes.</li><li>• Optimization of chitin and chitosan extraction process.</li><li>• Study of bioactive potential of the extracted chitosan like anti-gastritis and hypocholesterolemic activity.</li></ul>
Report for the Period	From: 01.07.2022 To: 08.02.2024
Date of Earlier Report	30.06.2022

Precise report of the research work done during the above period	
1	Characterization of extracted chitosan and compare with the commercial one.
2	Evaluation of anti-ulcer potentiality of extracted chitosan in in-vivo model of experimental mice.
3	Evaluation of anti-obese potentiality of extracted chitosan in in-vivo model of experimental mice.

Signature of the Candidate:

*Subham Rakshit*

Date & Place: 09.02.2024, Midnapore

**VIDYASAGAR UNIVERSITY**  
Department of Microbiology

**Observations of Supervisor(s):**

The fellow completed all the objectives of his PhD proposal.  
He can be permitted for PhD pre-submission if approved by  
RAC committee.

*Subham 9/2/24*

[Signature of the Supervisor(s)]

**Remarks of RAC:**

**Candidate Name:** Subham Rakshit

Recommendation of RAC:  
The work done by Mr Subham  
Rakshit is impressive. He  
completed all the objectives  
of his PhD proposal. Therefore  
the RAC recommended for  
submission of his Ph.D. thesis.

*Dr. Anil Kumar Banik*  
9/2/24  
Asst. Prof., Dept. of  
Chemical Engg. Biotechnical  
Engg. Division, Calcutta  
University

**Signature of External Expert:**

*[Signature]*  
Signature of Internal Expert:

*[Signature]*  
Signature of Secretary, Ph.D. Committee/HoD:

*Subham 9/2/24*

Signature of RAC Convenor (Supervisor):

# VIDYASAGAR UNIVERSITY

## Application of RAC

To

The Registrar

Vidyasagar University

Midnapore – 721102

West Bengal, India

Sub: RAC report for the Ph.D. Programme in for the period from 30.06.2022 To 09.02.2024

Sir,

I submit herewith the attached report for RAC assessment of my Ph.D. research work for your kind information.

1. Name of Research Scholar: Debabrata Goswami
2. Name of Supervisor(s): Prof. Keshab Chandra Mondal
3. Date of Registration for Ph.D. Degree: 10/10/2018
4. Title of Research Work: Characterization of probiotics from high altitude fermented food and their efficacy against hypoxia induced gastrointestinal disorder

Debabrata Goswami (09.02.2024)

.....  
[Signature of the Candidate with Date]

### RAC REPORT OF PHD RESEARCH WORK

Name of the Candidate	Debabrata Goswami
Name of the Supervisor	Prof Keshab Chandra Mondal
Subject of Research	Microbiology
Registration No. with Date	(073/Ph.D/Sc.)-10/10/2018 Date-3/11/2018
Title of the PhD Thesis	Characterization of probiotics from high altitude fermented food and their efficacy against hypoxia induced gastrointestinal disorder
Aim & Objectives of PhD Work	<input type="checkbox"/> Isolation and characterization of probiotics from traditional fermented foods at high altitude. <input type="checkbox"/> Testing of the efficacy of the probiotics in simulated hypoxia induced animal model with respect to alteration of gut flora and biochemical changes.
Report for the Period	From: 30.06.2022 To 09.02.2024
Date of Earlier Report	: 25.12.2019 To 30.06.2022

Precise report of the research work done during the above period	
1.	Bioprospecting of probiotic bacteria from traditional food of high-altitude Himalayan region
2.	Production, optimization and probiotic characterization of potential lactic acid bacteria producing siderophores
3.	LAB Associated Organism Ameliorates Oxidative Damage and Gastrointestinal Infections of Large Intestine under Simulated Hypobaric Hypoxic Condition

Signature of the Candidate:

Date & Place: 09.02.2024 (Midnapore)

Observations of Supervisor(s):

The Fellow completed all the objective as stated in Ph.D. proposal, therefore, he may presented the Pre-submission seminar.

  
 [Signature of the Supervisor(s)]

Resolution of research advisory committee (RAC) meeting

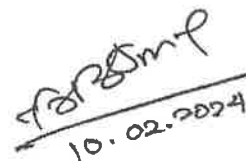
Recommendation/Remarks of RAC:

Candidate Name:-Debabrata Goswami

Recommendation of the RAC,  
Vedavyasa University

The work done by Sri Debabrata Goswami is impressive, exhaustive and conclusive. He has completed all the objectives of his Ph.D. proposal in a much satisfying manner. Therefore the RAC recommended for submission of his ~~Ph.D.~~ thesis leading to Ph.D. degree. He has also good publications.

Signature of External Expert: ...

  
10.02.2024

(B. B. Mishra)  
Former Prof & Head,  
P. & T. Dept of Microbiology  
SV AT, BBSR, Odisha.

Presently

President,  
Odisha Bioprocess Academy  
B/2 Sahew Nagar,  
Bhubaneswar,  
Odisha  
9437178128

  
Signature of Secretary, Ph.D. Committee:

  
Signature of Internal Expert:

  
Signature of RAC Convenor (Supervisor):



**Department of Microbiology**  
**Vidyasagar University**  
Midnapore-721102, West Bengal, India

Phone: 03222 298413  
Fax: 03222 275329/275297/263206  
e-mail: Vidya295@mail.vidyasagar.ac.in  
website: <http://www.vidyasagar.ac.in>

Ref No - VU/R/Micro/845/24

Office of the Registrar  
Vidyasagar University  
Received by \_\_\_\_\_  
Diary No. 976  
Time 16:25  
12/02/24  
Sella

date: 12.02.2024

To

The Registrar

Vidyasagar University

*Sub: Submission of RAC reports with recommendations of research scholars of Microbiology Department*

Sir

Please find attached herewith the RAC reports with recommendations of the following research scholars of Microbiology Department. The meeting was held on 09/02/2024 & 10/02/2024.

Mr. Debabrata Goswami (Registration no. 073/Ph.D/Sc.) [Supervisor: Prof. K.C. Mondal]

Mr. Subham Rakshit (Registration no. 091/Ph.D/Sc.) [Supervisor: Dr. S.K. Halder]

Mr. Kalyanbrata Pal (Registration No: 415/PhD./Sc.) [Supervisor: Dr. S.K. Halder]

With regards and thanks

Prof. Keshab Chandra Mondal

HoD & Secretary of PhD committee

**Head**  
Department of Microbiology  
VIDYASAGAR UNIVERSITY  
Midnapore - 721102, W.B.

① SKG  
12/02/24





**VIDYASAGAR UNIVERSITY**  
**DEPARTMENT OF BOTANY AND FORESTRY**  
MIDNAPORE-721102: WEST BENGAL

**Research Advisory Committee**

1. Name of the Research Scholar : Tumpa Paikera
2. Name of the Department : Botany & Forestry
3. Title of the thesis : "Studies in the pollen flora of Bankura District, West Bengal with notes on pollen dispersal mechanism".
4. Ph.D. registration no. with date : 1008/Ph.D.(Sc.) Date.12.06.2023 [w.e.f. 11.04.2023]
5. Name of the supervisor : Prof. Prakash Karmakar
6. Date of RAC meeting : 10/10/2023
7. Progress of research work (with specific date/tenure) : April 2023 — September 2023  
Comments of members of RAC: Satisfactory some
8. Specific suggestions, if any : Conversion of old plant names to new names are suggested
9. Remarks : Very good presentation

Signature of the members of RAC

10.10.23

Signature of the Secretary, PhD committee : Ananda 10.10.23

Signature of the External Expert : 10.10.23

Signature of the member : 10/10/23

Signature of the Supervisor : Prakash Karmakar  
10/10/2023



**VIDYASAGAR UNIVERSITY**  
**DEPARTMENT OF BOTANY AND FORESTRY**  
MIDNAPORE-721102: WEST BENGAL

**Research Advisory Committee**

1. Name of the Research Scholar : Suman Kumar De
2. Name of the Department : Botany & Forestry
3. Title of the thesis : "Studies in the foraging ecology of honey bee and stingless bee in forest dominated areas of Bankura District, West Bengal".
4. Ph.D. registration no. with date: 1007/Ph.D.(Sc.) Date. 12.06.2023 [w.e.f.11.04.2023]
5. Name of the supervisor : Prof. Prakash Karmakar
6. Date of RAC meeting : 10/10/2023
7. Progress of research work : April 2023 – September 2023  
(with specific date/tenure)  
Comments of members of RAC: Satisfactory
8. Specific suggestions, if any :
9. Remarks : Impressive presentation

*[Signature]*  
10.10.23

**Signature of the members of RAC**

- Signature of the Secretary, PhD committee : *[Signature]* 10.10.23
- Signature of the External Expert : *[Signature]* 10.10.23
- Signature of the member : *[Signature]* 10/10/23
- Signature of the Supervisor : *[Signature]*  
10/10/2023



**VIDYASAGAR UNIVERSITY**  
**DEPARTMENT OF BOTANY AND FORESTRY**  
MIDNAPORE-721102; WEST BENGAL

**Research Advisory Committee**

1. Name of the Research Scholar : Chhandam Chanda
2. Name of the Department : Botany & Forestry
3. Title of the thesis : "Study of diversity of fern and fern-allies of Dihang-Dibang biosphere reserve of Arunachal Pradesh"
4. Ph.D. registration no. with date : 622/Ph.D.(Sc.) Date. 25.02.2022 [w.e.f. 09.04.2021]
5. Name of the supervisor : Prof. Prakash Karmakar
6. Date of RAC meeting : 10/10/2023
7. Progress of research work (with specific date/tenure) : June 2022 - June 2023  
Comments of members of RAC: Satisfactory
8. Specific suggestions, if any : Conversion of few old plant names to new names are suggested
9. Remarks : Presentation satisfactory

Signature of the members of RAC

Signature of the Secretary, PhD committee : *Ar. N. A.*, 10.10.23

Signature of the External Expert :

Signature of the member :

Signature of the Supervisor :

*B. S. M.*  
10/10/23

*R. Karmakar*  
10/10/2023

## Report of the meeting of R A C

1. Name of the Candidate : MAMTAJ KHATUN
2. Name of the Department : department of Botany & Forestry
3. Title of the Thesis : Distribution, characterization, and ultrastructural study of seeds of the selected three families (Myrsinaceae, Guttiferaceae and Sapotaceae) based on numerical analysis: A systematic approach
4. Registration No With date & year: 29.08.2017 040/Ph.D/SG.
5. Name of the Supervisor(s) : Prof. Amal Kumar Mondal
6. Date of meeting of R A C : 10.10.2023
7. Progress of Research Work : Annexure - I (2022 - 2023)  
(With specific Date/ tenure)
8. Comments of the members of R A C : Satisfactory
9. Specific suggestions, if any : N.
10. Remarks : Average presentation  
10.10.23
- (Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee

: *[Signature]*, 10.10.23

Signature of the External Expert

: *[Signature]*  
10.10.23

Signature of the Member

: *[Signature]*  
10/10/23

Signature of the Supervisor

*[Signature]*  
17/10/23  
Prof. Amal Kumar Mondal  
Professor of Botany  
UGC-DRS-SAP Department  
Department of Botany & Forestry  
Vidyasagar University  
Bidhanagar - 721102

## Report of the meeting of R A C

1. Name of the Candidate : Dheeman Mondal
2. Name of the Department : Department of Botany & Forestry
3. Title of the Thesis : Cytotaxonomical studies of the two Hemiparasitic family Loranthaceae & Viscaceae of South West Bengal, India
4. Registration No With date & year: 120/Ph.D (Se.) - 20/12/2018
5. Name of the Supervisor(s) : Professor Amal Kumar Mondal
6. Date of meeting of R A C : 10/10/2023
7. Progress of Research Work : Annexure - I (2022-2023)  
(With specific Date/ tenure)
8. Comments of the members of R A C : Satisfactory
9. Specific suggestions, if any :  
Appl of them life:  
① Title minor change  
② Objective minor change as per title concern.
10. Remarks : Presentation very good.  
10.10.23

(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee

: Ar. Xanda, 10.10.2023


Signature of the External Expert

: 10.10.23

Signature of the Member

: 10/10/23

Signature of the Supervisor

  
Prof. Amal Kumar Mondal  
Professor of Botany  
UGC-DRS-SAP Department  
Department of Botany & Forestry  
Vidyasagar University  
Midnapore - 721102

## Report of the meeting of R A C

1. Name of the Candidate : SANTANU DASH
2. Name of the Department : Department of Botany & Forestry
3. Title of the Thesis : Systematic Analysis of some economically viable members under the family - Piperaceae in South West Bengal, India based on morphology, micromorphology, anatomy and secondary metabolites
4. Registration No With date & year: 036/Ph.D/Sc. Date - 29.08.2017
5. Name of the Supervisor(s) : PROF. AMAL KUMAR MONDAL
6. Date of meeting of R A C : 10/10/2023
7. Progress of Research Work : ANNEXTURE - I  
(With specific Date/ tenure) (2022-2023)
8. Comments of the members of R A C : Satisfactory
9. Specific suggestions, if any : Minor change of title and objective of work as per title concern.
10. Remarks : Excellent presentation
- (Separate sheets may be used if necessary.)

Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee : *[Signature]* 10.10.2023.

Signature of the External Expert

Signature of the Member

Signature of the Supervisor

*[Signature]*  
Prof. Amal Kumar Mondal  
Professor of Botany  
UGC-UKSAP Department  
Department of Botany & Forestry  
Vidyasagar University  
Midnapore - 721102

*[Signature]* 10.10.23

*[Signature]* 10/10/23

## Report of the meeting of R A C

1. Name of the Candidate : SK. Residul Islam
2. Name of the Department : Department of Botany & Forestry
3. Title of the Thesis : Studies on the Bryoflora of South West Bengal, India: A systematic approach
4. Registration No With date & year: 03. 10. 2018 063/ Ph.D/ SC.
5. Name of the Supervisor(s) : Prof. Anmol Kumar Mondal
6. Date of meeting of R A C : 10. 10. 2023
7. Progress of Research Work : Annexure - I (2022 - 2023)  
(With specific Date/ tenure)
8. Comments of the members of R A C : Satisfactory
9. Specific suggestions, if any : N.A.
10. Remarks : Moderate presentation. Missed up of language. 10.10.23
- (Separate sheets may be used if necessary.)

Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee : AK Mondal, 10/10/23

Signature of the External Expert : [Signature] 10.10.23

Signature of the Member : [Signature] 10/10/23

Signature of the Supervisor : [Signature]

Prof. Anmol Kumar Mondal  
Professor of Botany  
UGC-DAB-SAP Department  
Department of Botany & Forestry  
Vidyasagar University  
Midnapore - 721152

## Report of the meeting of R A C

1. Name of the Candidate : BANGIAMOTI HANSDA
2. Name of the Department : BOTANY & FORESTRY
3. Title of the Thesis : "Exploration and Phytochemical Analysis of Ethnomedicinal Plants of Jorhat Meghalaya"
4. Registration No With date & year: Regn No: 039/Ph. D. Sc. & Date: 29.08.2017
5. Name of the Supervisor(s) : Dr. Nilanjana Banerjee
6. Date of meeting of R A C : 10.10.2023
7. Progress of Research Work : Total phenol, total flavonoid, DPPH activity and (With specific Date/tenure) total carbohydrate content was measured in both the plants part of *A. racemosa* and *S. macrophylla*. Statistical data analysis such as UV, ECR and FLY, was analysed by using survey data.
8. Comments of the members of R A C: Almost completed satisfactorily
9. Specific suggestions, if any : Superb presentation  
By  
10.10.23
10. Remarks : Almost completed her thesis work.

(Separate sheets may be used if necessary.)

Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee : Ar. H. H. 10.10.2023

Signature of the External Expert : By 10.10.23

Signature of the Member : Ramana 16.10.23

Signature of the Supervisor : By 10.10.23



## Report of the meeting of R A C

1. Name of the Candidate : SUTAPA MAITI
2. Name of the Department : BOTANY & FORESTRY
3. Title of the Thesis : Green synthesis of silver nanoparticles from selected ethnomedicinal plants and in vitro assessment of antioxidant and antibacterial activity.
4. Registration No With date & year: 1023/Ph.D./Sc. 11.04.2023
5. Name of the Supervisor(s) : Dr. Nilanjana Banerjee
6. Date of meeting of R A C : 10.10.2023
7. Progress of Research Work : After conducting literature review & collection, extract preparation and preliminary phytochemical screening of 4 plants were performed.  
(With specific Date/ tenure)
8. Comments of the members of R A C : Satisfactory.
9. Specific suggestions, if any : Will need much more time to complete her research
10. Remarks : Average presentation
- (Separate sheets may be used if necessary.)

Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee

Signature of the External Expert

Signature of the Member

Signature of the Supervisor

Ar. D. 10/10/23

10.10.23

Ramman

10/10/23

Banerjee

10.10.23

## Report of the meeting of R A C

1. Name of the Candidate : ARNAB BERA
2. Name of the Department : BOTANY & FORESTRY
3. Title of the Thesis : phytochemical analysis and antibacterial screening of selected invasive weeds of Asteraceae in Paschim Medinipur.
4. Registration No With date & year: 20.12.2018/143/Ph.D. (SC.)
5. Name of the Supervisor(s) : DR. NILANJANA BANERJEE.
6. Date of meeting of R A C : 21.09.2023.
7. Progress of Research Work : LC-MS study of phenol & flavonoids (With specific Date/ tenure) was carried out. Two herbal ointments were formulated using active extract & their physicochemical characters were evaluated.
8. Comments of the members of R A C: Progress is satisfactory & he has successfully defended his presentation. He has published two papers and one is communicated.
9. Specific suggestions, if any :
10. Remarks :

(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee

Signature of the External Expert

Signature of the Member

Signature of the Supervisor

: Arnab

Chanda Sengupta 21.9.23

Quins 21/9/23

she was present online  
Arnab,  
21.9.23

## Report of the meeting of R A C

1. Name of the Candidate : Sani Sen
2. Name of the Department : BOTANY & FORESTRY
3. Title of the Thesis : "Production and characterisation of L- asparaginase from endophytic micro-organisms"
4. Registration No With date & year: 097/PhD (Sc.) dt 21.12.2018
5. Name of the Supervisor(s) : Prof Debdulal Banerjee
6. Date of meeting of R A C : 21.09.2023
7. Progress of Research Work : 2018-2023  
(With specific Date/ tenure)
8. Comments of the members of R A C: After 4 years and 8 months of registration the candidate is unable to publish a paper. Progress of work is not satisfactory.
9. Specific suggestions, if any : The candidate is suggested to improve regularity of his PhD work and complete the work in due time. Should give emphasis to publication.
10. Remarks

(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee

Akshay A. 21.9.2023

Signature of the External Expert :

Chandan Sengupta 21.9.2023

Signature of the Member :

Signature of the Supervisor :

Binas 21/9/23  
21.09.2023

## Report of the meeting of R A C

1. Name of the Candidate : Sudip Mondal
2. Name of the Department : Botany and Forestry
3. Title of the Thesis : studies on nutritional and medicinal properties of pycnopus spp.
4. Registration No With date & year: 130/Ph.D. (SC.), 27-12-2019
5. Name of the Supervisor(s) : Dr. Gunjan Bhowal
6. Date of meeting of R A C : 21.9.23
7. Progress of Research Work : Evaluation of nutritional properties of  
(With specific Date/ tenure) three different species of pycnopus, antioxidant activity of pycnopus sanguineus and antibacterial effect of pycnopus species. (Sep. 2022 - Aug 2023)
8. Comments of the members of R A C : Progress is satisfactory and he has successfully defended his presentation in front of the committee. One paper has been accepted & one communicated.
9. Specific suggestions, if any :

### 10. Remarks

(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee :

Signature of the External Expert

Signature of the Member

Signature of the Supervisor

Arundha 21.9.2023

Chanda Sengupta 21.9.2023

Arundha 21.9.2023

Gunjan  
21/9/23

## Report of the meeting of R A C

1. Name of the Candidate **BIJOY MAL**
2. Name of the Department **BOTANY AND FORESTRY**
3. Title of the Thesis : **ANALYSIS OF FOOD VALUE AND FREE RADICAL  
SCAVENGING ACTIVITY OF SOME NON-CONVENTIONAL  
FRUITS OF LATERITIC WEST BENGAL**

4. Registration No With date & year: **119/Ph.D.(SC.) of 2018 (20.12.2018)**

5. Name of the Supervisor(s) : **DR. GUNJAN BISWAS**

6. Date of meeting of R A C : **21.09.2023**

7. Progress of Research Work : **Field Survey, Sample Collection, Analysis of food  
(With specific Date/ tenure) value, Estimation of phytochemicals - Antioxidant  
activity, Antimicrobial activity. (Sep 2022 - August  
2023,**

8. Comments of the members of R A C : **Progress is satisfactory and he  
has successfully defended his  
presentation in front of the committee.  
He has communicated papers for publication**

9. Specific suggestions, if any :

10. Remarks :

(Separate sheets may be used if necessary.)

Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee

**Akshaya 21.09.2023**

Signature of the External Expert

**Chand - Sengupta 21.9.2023**

Signature of the Member

**Arora 21.09.2023**

Signature of the Supervisor

**Gurus 21/9/23**



## Report of the meeting of R A C

1. Name of the Candidate : SUJAY CHANDRA

2. Name of the Department : BOTANY & FORESTRY

3. Title of the Thesis : "Study of some sacred groves and sacred trees of Midnapore Sadar Block and adjoining areas of Paschim Medinipur district, West Bengal."

4. Registration No. with date & year : 756 / Ph.D (Sc.) - 26.10.2021

5. Name of the Supervisor(s) : Dr. Adid Kumar Nandi, Associate Professor and H.O.D. Dept. of Botany and Forestry, V.U.

6. Date of meeting of R A C : 21.09.2023

7. Progress of Research work : Study of socio-cultural importance, disturbances, present status, of some sacred groves and sacred trees was done by me throughout the last 9-12 months. Documentation of plant diversity, totem, threats was also done by me in regard to the study of several sacred groves and sacred trees from 29.6.22 up to date.

8. Comments of the members of R A C :

Average performance

9. Specific suggestions, if any

The candidate will require to review his works for further rectification of some shortcomings in his approach in execution of the research work. He will need to carry out the necessary data collection and their analyses in proper scientific way.

10. Remarks

(Separate sheets may be used if necessary.)

Signature of the Member of R A C

Signature of the Secretary, Ph.D. Committee

Ananda 21.09.2023

Signature of External Expert

Chandrasekhar 21.9.2023

Signature of the Member Signature of the Supervisor(s)

21.9.2023

Rammanan  
21/9/2023

Ananda 21.09.2023

**VIDYASAGAR UNIVERSITY  
MIDNAPORE**

**Department of English**

**Report of the meeting of the R.A.C.**

1. Name of the Candidate/Scholar: Rakhi Mahata
2. Name of the Department: Women's Studies Centre
3. Title of the Thesis: From Indentured Labourers to Emancipated Individuals:

Representation of Indo-Caribbean Women in Selected Novels

4. Registration No. with date and year: Registration number -543, Registration date- 29/10/2021
5. Name(s) of the supervisor(s): Prof. Monanjali Bandyopadhyay
6. Date of meeting of R.A.C.: 19/01/2024
7. Progress of Research Work:  
(with specific date / tenure)

8. Comments of the members of R.A.C.: The scholar has presented her research work in the form of a lucid manner. Though I didn't read such novels which were mentioned in the RAC by the scholar but it creates me some interest to read some novels.

9. Specific suggestions, if any:

10. Remarks:  
(separate sheets may be used if necessary)

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D Committee:

  
Director  
Women's Studies Centre  
Vidyasagar University  
Midnapore - 721102

Signature of the External Expert:

*Samar Kumar Mondal*

Signature of the Member:

*Pratibha Acharya*

Signature(s) of the Supervisor(s):

*Monanjali Bandyopadhyay*

**Documents Required for Submission with R.A.C. Report:**

1. Official notification

2. Attendance of the candidate/Scholar:

3. Relevant document (Research paper / patent / Publications, if any)

*Rakhi Mahata*

**Signature of the**

**Scholar**



VIDYASAGAR UNIVERSITY

MIDNAPORE

Women's Studies Centre

Report of the meeting of the R.A.C.

1. Name of the Candidate/Scholar: Krishna Saha
2. Name of the Department: Women's Studies Centre
3. Title of the Thesis: Possibilities and Challenges of Empowerment of Dalit Women:

Study on Selected Blocks of Purulia District [Recommended title by the RAC II is

"Possibilities and Challenges of Empowerment of Dalit Women: A Study on Selected  
Blocks of Purulia District]

4. Registration No. with date and year: 00048 of 2021-2022 (*w.e.f* 09.10.2021)
5. Name(s) of the supervisor(s): Dr. Monanjali Bandyopadhyay (Prof.)
6. Date of meeting of R.A.C.: 19.01.2024
1. Progress of Research Work:

8. Comments of the members of R.A.C II.: As per the scholar's presentation I am agreed that the scholars progress is in right track and the collection of primary data was well furnished.

(b) Recommended to clarify the concept of 'Scheduled Tribes' and 'Adivasi'.

9. Specific suggestions, if any: NA

10. Remarks: NA

(separate sheets may be used if necessary)

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D Committee:

Director  
Women's Studies Centre  
Vidyasagar University  
Midnapore - 721102

Signature of the External Expert:

Samar Kumar Mondal

Signature of the Member:

Pratibha Achary

Signature(s) of the Supervisor(s):

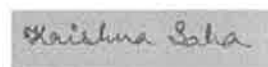
Mananjali Bandyopadhyay

**Documents Required for Submission with R.A.C. Report:**

1. Official notification

2. Attendance of the candidate/Scholar:

3. Relevant document (Research paper / patent / Publications, if any):

A rectangular box containing a handwritten signature in cursive script, which appears to read "Kaishna Saha".

**Signature of the Scholar**

## Report of the meeting of R A C

1. Name of the Candidate : ARINDAM DAS
2. Name of the Department : CHEMISTRY
3. Title of the Thesis : INTERACTION AND INHIBITORY INFLUENCE OF BERBERINE, PALMATINE AND CORALYNE ON LYSOZYME AMYLOID FIBRILLATION
4. Registration No With date & year: 923/Ph.D./Sc. dated 24.01.2023
5. Name of the Supervisor(s) : DR. ANIRBAN BASU
6. Date of meeting of R A C : 03.10.2023
7. Progress of Research Work : 01.01.2023 to 30.06.2023  
(With specific Date/ tenure)
8. Comments of the members of R A C : The research scholar demonstrated his work by powerpoint presentation and answered all the questions asked to him successfully.
9. Specific suggestions, if any :
10. Remarks : The progress of the candidate is satisfactory.

(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee

Signature of the External Expert

Signature of the Member

Signature of the Supervisor

Sumita Roy 03.10.2023  
S. Mukhopadhyay 3/10/23  
Subrata Mukhopadhyay  
Professor of Chemistry  
Jadavpur University  
Kolkata -700032  
Jalw 3/10/23  
Anirban Basu  
3/10/23  
DR. ANIRBAN BASU  
Assistant Professor  
Dept. of Chemistry  
Vidyasagar University  
Midnapore-721102

## Report of the meeting of RAC

1. Name of the Candidate : Manas Kr Mahish
2. Name of the Department : Chemistry
3. Title of the Thesis : Multidentate ligand based Ni(II) coordination compounds : Syntheses, crystal structures and molecular properties.
4. Registration No. With date & year : 238/Ph.D./Science 24.12.2020
5. Name of the Supervisor (s) : Prof. Subal Chandra Manna
6. Date of meeting of RAC : 01.08.2023
7. Progress of Research Work : 01.04.2023 - 31.07.2023
8. (With specific Date/ tenure)
9. Comments of the member of RAC : Research scholar demonstrated his work by power point presentation and answered all queries successfully

10. Specific Suggestion, if any :

11. Remarks

: The progress of the research scholar is satisfactory

Signature of the Member of RAC

*Subrata Mukhopadhyay* 1/8/23

Dr. Subrata Mukhopadhyay  
Professor of Chemistry  
Jadavpur University  
Kolkata - 700032

*Sumita Ray* 01.08.23

Signature of the Secretary, Ph.D committee

Signature of the External Expert

*Dr. Subal Chandra Manna*

Head  
Department of Chemistry  
Vidyasagar University  
Midnapore - 721102, W.B.

*Dr. Sudipta Dalai* 1-8-23

Signature of the member, Ph.D. Committee

Dr. Sudipta Dalai  
Professor  
Department of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore 721102, W.B., INDIA

*Subal Chandra Manna* 1/8/23

Dr. Subal Chandra Manna  
Professor  
Dept. of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore - 721102, W.B, India

Signature of the Supervisor

*Approved*  
*Subrata Mukhopadhyay* 7/12/23  
7/12/23



বিদ্যাসাগর বিশ্ববিদ্যালয়  
**VIDYASAGAR UNIVERSITY**  
**Department of Chemistry**

Dr. Subal Chandra Manna  
Professor  
Dept. of Chemistry  
Vidyasagar University  
Midnapore 721102

August 01, 2023

**Proceedings of the Research Advisory Committee (RAC) meeting of  
Manas Kr Mahish held on 01.08.2023**

**1) Members Present:**

**Supervisor and Convenor of RAC:** Prof. Subal Chandra Manna

**Secretary of the Ph.D. Committee:** Prof. Sumita Roy

**Member of the Ph.D. Committee  
and Internal Expert Member:** Prof. Sudipta Dalai

**External Expert Member:** Prof. Subrata Mukhopadhyay

*Sumi Chandra Manna 1/8/23*  
*Sumita Roy 01.08.23*

*S. Dalai 1/8/23*  
*Subrata Mukhopadhyay 1/8/23*

**2) Agenda:**

RAC committee meeting of Manas Kr Mahish held on 01.08.2023

**Resolution:**

The RAC meeting of Manas Kr Mahish has been conducted. The scholar presented his work (for the period 01.04.2023 - 31.07.2023) before the committee. The members unanimously opined the progress of the scholar was satisfactory.

The meeting ended with vote of thanks to everybody.



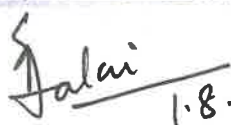
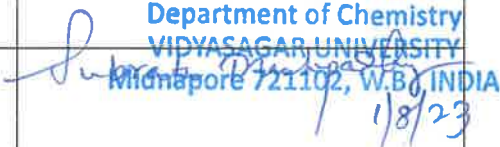
*Sumi Chandra Manna 1/8/23*  
**Dr. Subal Chandra Manna**  
Professor  
Dept. of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore - 721102, W.B. India



**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721102, WEST BENGAL, INDIA  
Fax: (91) 03222-262329

**DEPARTMENT OF CHEMISTRY**

**Name of the Supervisor:** Dr. Subal Chandra Manna  
Professor  
Dept. of Chemistry, VU.  
**Name of the department:** Department of Chemistry

<b>Name of the registered scholar:</b> Manas Kr Mahish  <b>Reg. No. – 238/Ph.D (Sc.)</b> <b>Date of Registration:</b> 24.12.2020  <b>Title of thesis:</b> Multidentate ligand based Ni(II) coordination compounds: syntheses crystal structures and molecular properties	<b>Member Present</b>	<b>Signature</b>
	<b>Supervisor, Convenor of RAC:</b>  Prof. Subal Chandra Manna Dept. of Chemistry, VU.	 <b>Dr. Subal Chandra Manna</b> Professor Dept. of Chemistry VIDYASAGAR UNIVERSITY Midnapore -721102. W.B, India
	<b>Secretary of the Ph.D Committee:</b>  Prof. Sumita Roy Dept. of Chemistry, VU.	 <b>Sumita Roy</b> Head Department of Chemistry Vidyasagar University Midnapore - 721102, W.B.
	<b>Member of the Ph.D Committee, and Internal Expert Member:</b>  Prof. Sudipta Dalai Dept. of Chemistry, VU.	 <b>Dr. Sudipta Dalai</b> Professor Department of Chemistry VIDYASAGAR UNIVERSITY Midnapore 721102, W.B, INDIA
	<b>External Expert Member :</b>  Prof. Subrata Mukhopadhyay Dept. of Chemistry Jadavpur University	 <b>Dr. Subrata Mukhopadhyay</b> Professor of Chemistry Jadavpur University Kolkata - 700032



**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721102, WEST BENGAL, INDIA  
Phone: 03222-276554/276555 Extn.: 437  
Fax: (91) 03222-262329  
**DEPARTMENT OF CHEMISTRY**

Ref. No. VU / CHEM. / / /

**Name of the Supervisor(s):** Dr. Sumita Roy

**Name of the department:** Department of Chemistry and Chemical Technology

<b>Name of the registered Scholar</b> AninditaSingha	<b>Proposed RAC</b>
<b>Enrollment. No. VUPHD2110169</b>  <b>Title of thesis:</b> Synthesis and Self-assembly Studies of Novel Cholesterol Based Amphiphiles: A Potential Candidate for Drug Delivery and Sensing Agent	<b>Supervisor(s):</b> Prof. Sumita Roy
	<b>Convenor of RAC: Supervisor(s)</b> Prof. Sumita Roy
	<b>Secretary of the Ph.D. Committee:</b> Prof. Sumita Roy
	<b>Member of the Ph.D. Committee:</b> Prof. Sudipta Dalai
	<b>External Expert Member:</b> Prof. Dipankar Chattopadhyay
	<b>Internal Expert Member:</b> Dr. Anirban Basu

Signature of External Expert Member

Signature of Internal Expert Member

Signature of Supervisor(s)

Signature of Convenor

*[Handwritten signatures and dates]*

Approved *[Signature]* 7/12/23

*[Signature]* 7/12/23

Approved, *[Signature]* 7/12/23

*[Signature]* 7/12/23





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MIDNAPORE-721102, WEST BENGAL, INDIA  
Phone: 03222-276554/276555 Extn.: 437  
Fax: (91) 03222-262329  
**DEPARTMENT OF CHEMISTRY**

Ref. No. VU / CHEM. / / /

**Name of the Supervisor(s):** Dr. Anirban Basu

**Name of the department:** Department of Chemistry

<b>Name of the registered Scholar:</b> Gouranga Jana	<b>Proposed RAC</b>
<b>Reg. No.</b> 1182/Ph.D./Sc. <b>Date of Registration:</b> 3.10.2023  <b>Title of thesis:</b> INTERACTION OF THE FOOD COLORANT INDIGO CARMINE WITH FUNCTIONAL PROTEINS AND ITS EFFECT ON AMYLOID FIBRILLATION	<b>Supervisor(s):</b> Dr. Anirban Basu
	<b>Convenor of RAC:</b> Dr. Anirban Basu
	<b>Secretary of the Ph.D. Committee:</b> Dr. Subal Chandra Manna
	<b>Member of the Ph.D. Committee:</b> Prof. Sudipta Dalai
	<b>External Expert Member:</b> Prof. Subrata Mukhopadhyay
	<b>Internal Expert Member:</b> Dr. Sumita Roy

Signature of External Expert Member      Signature of Internal Expert Member

Anirban Basu

Signature of Supervisor(s)

Anirban Basu

Signature of Convenor

Approved, 7/12/23

Dalai 7/12/23

Approved, 7/12/23

Sum Chandra Manna 7/12/23



**VIDYASAGAR UNIVERSITY**

MIDNAPORE-721102, WEST BENGAL, INDIA

Phone: 03222-276554/276555 Extn.: 437

Fax: (91) 03222-262329

**DEPARTMENT OF CHEMISTRY**

Ref. No. VU / CHEM. / / /

**Name of the Supervisor:** Dr. Maidul Hossain

**Name of the department:** Department of Chemistry

<b>Name of the registered Scholar</b> Subhajit Barman	<b>Proposed RAC</b>
<b>Reg. No. 1082/Ph.D(Sc.)</b> <b>Date of Registration: 01/08/2023</b>  <b>Title of thesis: "Synthesis of Berberine-coumarine derivatives and their interaction with DNA".</b>	<b>Supervisor:</b> Dr. Maidul Hossain
	<b>Convenor of RAC:</b> Supervisor Dr. Maidul Hossain
	<b>Secretary of the Ph.D. Committee:</b> Dr. Sumita Roy
	<b>Member of the Ph.D. Committee:</b> Prof. Sudipta Dalai
	<b>External Expert Member:</b> Prof. Subrata Mukhopadhyay
	<b>Internal Expert Member:</b> Dr. Anirban Basu

Signature of External Expert Member

Signature of Internal Expert Member

*Maidul Hossain*  
Signature of Supervisor(s)

*D. Mukhopadhyay*

*Maidul Hossain*  
Signature of Convenor

*Approved*  
*[Signature]*  
7/12/23

*[Signature]*  
7/12/23

*Approved*  
*[Signature]*  
7/12/23  
*Sumit Kumar*  
7/12/23

## Report of meeting of RAC

1. Name of the Candidate : DAMA SAREN
  2. Name of the Department : Chemistry
  3. Title of the Thesis : Schiff bases coordinated Zn(II)/Cd(II)/Hg(II) complexes: Syntheses, crystal, molecular properties.
  4. Registration No With date & year : 239/Ph.D(Sc.) 24.12.2022
  5. Name of the Supervisor(s) : Prof. Subal Chandra Manna
  6. Date of meeting of RAC : 01.08.2023
  7. Progress of Research Work (With specific Date/ tenure) : 01.04.2023 -31.07.2023
  8. Comments of the members of RAC: Research scholar demonstrated his work by power point presentation and answered all queries successfully.
  9. Specific suggestions, if any :
  10. Remarks : The progress of the research scholar is satisfactory
- (Separate sheets may be used if necessary)

### Signature of the Member of RAC

*Sumita Roy 01.08.23*  
Signature of the Secretary, Ph.D committee  
Head  
Department of Chemistry  
Vidyasagar University  
Midnapore - 721102, W.B.

*Subrata Mukhopadhyay*  
Dr. Subrata Mukhopadhyay  
Professor of Chemistry  
Jalpaiguri University  
Kolkata - 700032  
1/8/23  
Signature of the External Expert

*Dalal*  
Signature of the member, Ph.D. Committee

Dr. Sudipta Dalai  
Professor  
Department of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore 721102, W.B., INDIA

*Subal Chandra Manna*  
Dr. Subal Chandra Manna  
Professor  
Dept. of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore - 721102, W.B., India  
1/8/23  
Signature of the Supervisor




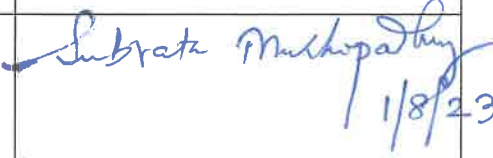
*Subrata Mukhopadhyay*  
7/12/23  
7/12/23



**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721102, WEST BENGAL, INDIA  
Fax: (91) 03222-262329

**DEPARTMENT OF CHEMISTRY**

**Name of the Supervisor:** Dr. Subal Chandra Manna  
Professor  
Dept. of Chemistry, VU.  
**Name of the department:** Department of Chemistry

<b>Name of the registered scholar:</b> DAMA SAREN  <b>Reg. No. – 239/Ph.D (Sc.)</b> <b>Date of Registration : 24.12.2020</b>  <b>Title of thesis:</b> Schiff bases coordinated Zn(II)/Cd(II)/Hg(II) complexes : Syntheses, crystal, molecular properties.	<b>Member Present</b>	<b>Signature</b>
	<b>Supervisor, Convenor of RAC:</b>  Prof. Subal Chandra Manna Dept. of Chemistry, VU.	 <b>Dr. Subal Chandra Manna</b> 1/8/23 Professor Dept. of Chemistry VIDYASAGAR UNIVERSITY Midnapore - 721102, W.B, India
	<b>Secretary of the Ph.D Committee:</b>  Prof. Sumita Roy Dept. of Chemistry, VU.	 Head 01.08.23, Department of Chemistry Vidyasagar University Midnapore - 721102, W.B.
	<b>Member of the Ph.D Committee, and Internal Expert Member:</b>  Prof. Sudipta Dalai Dept. of Chemistry, VU.	 1/8/23 <b>Dr. Sudipta Dalai</b> Professor Department of Chemistry VIDYASAGAR UNIVERSITY Midnapore 721102, W.B., INDIA
	<b>External Expert Member :</b>  Prof. Subrata Mukhopadhyay Dept. of Chemistry Jadavpur University	 1/8/23 <b>Dr. Subrata Mukhopadhyay</b> Professor of Chemistry Jadavpur University Kolkata - 700032



বিদ্যাসাগর বিশ্ববিদ্যালয়  
**VIDYASAGAR UNIVERSITY**  
**Department of Chemistry**

*Dr. Subal Chandra Manna*  
Professor  
Dept. of Chemistry  
Vidyasagar University  
Midnapore 721102

August 01, 2023

**Proceedings of the Research Advisory Committee (RAC) meeting of Dama Saren**  
held on 01.08.2023

**1) Members Present:**

**Supervisor and Convenor of RAC:** Prof. Subal Chandra Manna

**Secretary of the Ph.D.Committee:** Prof. Sumita Roy

**Member of the Ph.D.Committee  
and Internal Expert Member:**

Prof. Sudipta Dalai

**External Expert Member:**

Prof. Subrata Mukhopadhyay

*sum chd man 1/8/23*  
*Sumita Roy 01.08.23*  
*Dalai 1/8/23*  
*Subrata Mukhopadhyay 1/8/23*

**2) Agenda:**

RAC committee meeting of Dama Saren held on 01.08.2023

**Resolution:**

The RAC meeting of Dama Saren has been conducted. The scholar presented his work (for the period 01.04.2023-31.07.2023) before the committee. The members unanimously opined the progress of the scholar was satisfactory.

The meeting ended with vote of thanks to everybody.

*sum chd man 1/8/23*  
**Dr. Subal Chandra Manna**  
Professor  
Dept. of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore - 721102, W.B, India





বিদ্যাসাগর বিশ্ববিদ্যালয়  
**VIDYASAGAR UNIVERSITY**  
**Department of Chemistry**

Date: 31.05.2024

Proceedings of the Research Advisory Committee (RAC) meeting of  
Maitreyee Mitra held on 31.05.2024.

**Members Present:**

Supervisor: Prof. Amiya Kumar Panda

Convenor of RAC: Prof. Amiya Kumar Panda

Secretary of the Ph.D. Committee: Prof. Subal Chandra Manna

Member of the Ph.D. Committee: Prof. Sudipta Dalai

External Expert Member: Prof. Subrata Mukhopadhyay

Internal Expert Member: Prof. Sumita Roy

DR. AMIYA KUMAR PANDA  
Professor  
Department of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore-721102, W.B.

DR. SUMITA ROY  
Professor  
Dept. of Chemistry  
Vidyasagar University  
Midnapore - 721102

**Resolution:**

The RAC meeting of Maitreyee Mitra (Research Scholar of Prof. Amiya Kumar Panda) has been conducted on 31.05.2024. The scholar presented her work (1<sup>st</sup> August 2022 – 30<sup>th</sup> May 2024) before the committee. The members unanimously opined the progress of the scholar was satisfactory/good/excellent.



Dr. Sudipta Dalai  
Professor  
Department of Chemistry  
and Chemical Technology  
Vidyasagar University  
Midnapore - 721102, W.B., India

The meeting ended with vote of thanks to everybody.

Amiya Kumar Panda 31/05/2024

DR. AMIYA KUMAR PANDA  
Professor  
Department of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore-721102, W.B., India

Sumita Roy  
31-05-24

MIDNAPORE – 721 102, WEST BENGAL, INDIA

## Report of the meeting of RAC

1. Name of the Candidate: Maitreyee Mitra
2. Name of the Department: Department of Chemistry
3. Title of the Thesis: "Physicochemical Studies on Amphiphilic Polymers with Special Reference to their Aggregation Behaviour"
4. Registration no: 454/Ph.D/(Sc.)
5. Date of Registration: 27/09/2021
6. Name of the Supervisor: Prof. Amiya Kumar Panda
7. Date of the meeting of RAC: 31/05/2024
8. Progress of Research work: 1st August 2022 – 30<sup>th</sup> May 2024  
(With specific Date/tenure)
9. Comments of the members of RAC:
10. Specific suggestions, if any:
11. Remarks: *Progress of work is good.*

(Separate sheets may be used if necessary).

### Signature of the Member of RAC

Supervisor: Prof. Amiya Kumar Panda

*Amiya Kumar Panda 31/05/2024*

Convenor of RAC: Prof. Amiya Kumar Panda

*Amiya Kumar Panda 31/05/2024*

Secretary of the Ph.D. Committee: Prof. Subal Chandra Manna

*Subal Chandra Manna 31/05/24*

Member of the Ph.D. Committee: Prof. Sudipta Dalai

*Sudipta Dalai 31/5/2024*

External Expert Member: Prof. Subrata Mukhopadhyay

*Subrata Mukhopadhyay 31/5/24*

Internal Expert Member: Prof. Sumita Roy

*Sumita Roy 31.05.24*

*Dr. Subrata Mukhopadhyay*  
Professor of Chemistry  
Jadavpur University  
Midnapore - 700032

**DR. SUMITA ROY**  
Professor  
Dept. of Chemistry  
Vidyasagar University  
Midnapore - 721102



**Dr. Sudipta Dalai**  
Professor  
Department of Chemistry  
and Chemical Technology  
Vidyasagar University  
Midnapore - 721102, W.B., India



বিদ্যাসাগর বিশ্ববিদ্যালয়  
**VIDYASAGAR UNIVERSITY**  
**Department of Chemistry**

Date: 31.05.2024

Proceedings of the Research Advisory Committee (RAC) meeting of  
Subhadip Mandal held on 31.05.2024.

**Members Present:**

**Supervisor:** Prof. Amiya Kumar Panda

**Convenor of RAC:** Prof. Amiya Kumar Panda

**Secretary of the Ph.D. Committee:** Prof. Subal Chandra Manna

**Member of the Ph.D. Committee:** Prof. Sudipta Dalai

**External Expert Member:** Prof. Subrata Mukhopadhyay

**Internal Expert Member:** Prof. Sumita Roy

**Resolution:**

The RAC meeting of Subhadip Mandal (Research Scholar of Prof. Amiya Kumar Panda) has been conducted on 31.05.2024. The scholar presented his work (1<sup>st</sup> August 2022 – 30<sup>th</sup> May 2024) before the committee. The members unanimously opined the progress of the scholar was satisfactory/good/excellent.



**Dr. Sudipta Dalai**  
Professor  
Department of Chemistry  
and Chemical Technology  
Vidyasagar University  
Midnapore - 721102, W.B., India

The meeting ended with vote of thanks to everybody.

*Amiya Kumar Panda 31/05/2024*

**DR. AMIYA KUMAR PANDA**  
Professor  
Department of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore-721 102.

MIDNAPORE – 721 102, WEST BENGAL, INDIA



## Report of the meeting of RAC

1. Name of the Candidate: Subhadip Mandal
2. Name of the Department: Department of Chemistry
3. Title of the Thesis: "Bio-inspired Polymer-lipid Hybrids as Improvised Drug Delivery Systems"
4. Registration no: 496/Ph.D/(Sc.)
5. Date of Registration: 27/09/2021
6. Name of the Supervisor: Prof. Amiya Kumar Panda
7. Date of the meeting of RAC: 31/05/2024
8. Progress of Research work: 1st August 2022 – 30<sup>th</sup> May 2024  
(With specific Date/tenure)
9. Comments of the members of RAC:
10. Specific suggestions, if any:
11. Remarks:

*Progress of the work is good.*

(Separate sheets may be used if necessary).

### Signature of the Member of RAC

Supervisor: Prof. Amiya Kumar Panda

*Amiya Kumar Panda 31/05/2024*  
DR. AMIYA KUMAR PANDA  
Professor  
Department of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore - 721102, W.B., India

Convenor of RAC: Prof. Amiya Kumar Panda

*Amiya Kumar Panda 31/05/2024*

Secretary of the Ph.D. Committee: Prof. Subal Chandra Manna

*Subal Chandra Manna 31/05/24*

Member of the Ph.D. Committee: Prof. Sudipta Dalai

*Sudipta Dalai 31/5/2024*

External Expert Member: Prof. Subrata Mukhopadhyay

*Subrata Mukhopadhyay 31/5/24*

Internal Expert Member: Prof. Sumita Roy

*Sumita Roy 31.05.24*

Dr. Subrata Mukhopadhyay  
Professor of Chemistry  
Jadavpur University  
Kolkata - 700032

DR. SUMITA ROY  
Professor  
Dept. of Chemistry  
Vidysagar University  
Midnapore - 721102



Dr. Sudipta Dalai  
Professor  
Department of Chemistry  
and Chemical Technology  
Vidysagar University  
Midnapore - 721102, W.B., India

## Report of the meeting of R A C

1. Name of the Candidate : ARINDAM DAS
2. Name of the Department : CHEMISTRY
3. Title of the Thesis : INTERACTION AND INHIBITORY INFLUENCE OF BERBERINE, PALMATINE AND CORALYNE ON LYSOZYME AMYLOID FIBRILLATION
4. Registration No With date & year: 923/Ph.D./Sc. dated 24.01.2023
5. Name of the Supervisor(s) : DR. ANIRBAN BASU
6. Date of meeting of R A C : 29.05.2024
7. Progress of Research Work : 01.07.2023 to 31.12.2023  
(With specific Date/ tenure)
8. Comments of the members of R A C : The research scholar demonstrated his work by powerpoint presentation and answered all the questions asked to him successfully.
9. Specific suggestions, if any *These works should be continued.*
10. Remarks : The progress of the candidate is satisfactory. ✓

(Separate sheets may be used if necessary.)

Signature of the Member of R A C

Dept. of Chemistry  
Vidysagar University  
Midnapore - 721102, W.B.

Signature of the Secretary, Ph. D. Committee :

Signature of the External Expert

Signature of the Member

Signature of the Supervisor

*Dr. Subrata Mukhopadhyay*  
Dr. Subrata Mukhopadhyay  
Professor of Chemistry  
Jadavpur University  
Kolkata - 700032  
29/5/24

**DR. SUMITA ROY**  
Professor  
Dept. of Chemistry  
Vidysagar University  
Midnapore - 721102

*Sumita Roy*  
29/5/2024

## Report of the meeting of R A C

1. Name of the Candidate : SHUKDEB SING
2. Name of the Department : CHEMISTRY
3. Title of the Thesis : STUDIES ON THE INTERACTION AND INHIBITORY EFFECT OF BENZOPHENANTHRIDINE ALKALOIDS SANGUINARINE AND CHELERYTHRINE ON FIBRILLOGENESIS IN AMYLOIDOGENIC PROTEINS
4. Registration No With date & year: 482 /PhD/Sc. dated 13.11.2021
5. Name of the Supervisor(s) : DR. ANIRBAN BASU
6. Date of meeting of R A C : 29.05.2024
7. Progress of Research Work : 01.07.2023 to 31.12.2023  
(With specific Date/ tenure)
8. Comments of the members of R A C : The research scholar demonstrated his work by powerpoint presentation and answered all the questions asked to him successfully.
9. Specific suggestions, if any :
10. Remarks : The progress of the candidate is satisfactory.

(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee :

Signature of the External Expert

Signature of the Member

Signature of the Supervisor

*Subrata Mukhopadhyay*  
29/5/2024

*Sumita Ray* 29.05.24  
*Anirban Basu*

DR. SUMITA ROY  
Professor  
Dept. of Chemistry  
Vidyasagar University  
Kolkata - 721102

Dr. Subrata Mukhopadhyay  
Professor of Chemistry  
Jadavpur University  
Kolkata - 700032

## Report of the meeting of R A C

1. Name of the Candidate: Bsudev Shit
2. Name of the Department: Department of Chemistry
3. Title of the Thesis: Synthetic protocols of bactericidal silver nanoparticles using medicinal plants leaf extract and studies of their interaction with human serum albumin.
4. Registration No With date & year: 921/Ph.D(Sc.), Date of Registration: 24/01/2023
5. Name of the Supervisor: Dr. Maidul Hossain
6. Date of meeting of R A C: 07/12/2023
7. Progress of Research Work: 1<sup>st</sup> April 2023 – 30<sup>th</sup> September 2023  
(With specific Date/ tenure)
8. Comments of the members of R A C : The members unanimously opined the progress of the scholar was satisfactory.
9. Specific suggestions, if any:

10. Remarks: *Progress is rather satisfactory.*  
(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Supervisor: Dr. Maidul Hossain

*Maidul Hossain 7/12/23*

Dr. Maidul Hossain  
Asst. Professor  
Dept. Of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore, 721102, W.B

Convenor of RAC: Dr. Maidul Hossain

*Maidul Hossain 7/12/23*

Head  
Department of Chemistry  
Vidyasagar University  
Midnapore - 721102

Secretary of the Ph.D. Committee: Prof. Subal Chandra Manna

Member of the Ph.D. Committee: Prof. Sudipta Dalai

*S. Dalai*

Dr. Sudipta Dalai  
Professor  
Department of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore - 721102

External Expert Member: Prof. Subrata Mukhopadhyay

*Subrata Mukhopadhyay*

Dr. Subrata Mukhopadhyay  
Professor of Chemistry  
Jadavpur University  
Kolkata - 700032

Internal Expert Member: Dr. Anirban Basu

*Basu 7/12/2023*  
DR. ANIRBAN BASU  
Assistant Professor  
Dept. of Chemistry  
Vidyasagar University  
Midnapore-721102

## Report of the meeting of R A C

1. Name of the Candidate: Somenath Kundu
2. Name of the Department: Department of Chemistry
3. Title of the Thesis: "Medicinal plant extract mediated synthesis of silver nanoparticles: characterization and its interaction studies with human serum albumin".
4. Registration No With date & year: 922/Ph.D(Sc.), Date of Registration: 24/01/2023
5. Name of the Supervisor: Dr. Maidul Hossain
6. Date of meeting of R A C: 07/12/2023
7. Progress of Research Work: 1<sup>st</sup> April 2023 – 30<sup>th</sup> September 2023  
(With specific Date/ tenure)
8. Comments of the members of R A C : The members unanimously opined the progress of the scholar was satisfactory.
9. Specific suggestions, if any:
10. Remarks: Progress is well. Carry on.  
(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Supervisor: Dr. Maidul Hossain

Maidul Hossain 7/12/23

Dr. Maidul Hossain  
Asst. Professor  
Dept. Of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore, 721102.W.B

Convenor of RAC: Dr. Maidul Hossain

Maidul Hossain 7/12/23

Head

Department of Chemistry  
Vidyasagar University  
Midnapore - 721102

Secretary of the Ph.D. Committee: Prof. Subal Chandra Manna

Subal C. Manna 08/12/23

Member of the Ph.D. Committee: Prof. Sudipta Dalai

Sudipta Dalai 7/12/23  
Dr. Sudipta Dalai  
Professor  
Department of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore 721102, W.B., INDIA

External Expert Member: Prof. Subrata Mukhopadhyay

Subrata Mukhopadhyay 7/12/23

Internal Expert Member: Dr. Anirban Basu

Anirban Basu 7/12/2023  
DR. ANIRBAN BASU  
Assistant Professor  
Dept. of Chemistry  
Vidyasagar University  
Midnapore-721102

Dr. Subrata Mukhopadhyay  
Professor of Chemistry  
Jadavpur University  
Kolkata - 700032

## Report of the meeting of R A C

1. Name of the Candidate: Samaresh Paria
2. Name of the Department: Department of Chemistry
3. Title of the Thesis: Biophysical interaction study of human serum albumin with silver nanoparticles synthesized using various medicinal plants extract.
4. Registration No With date & year: 919/Ph.D(Sc.), Date of Registration: 24/01/2023
5. Name of the Supervisor: Dr. Maidul Hossain
6. Date of meeting of R A C: 07/12/2023
7. Progress of Research Work: 1<sup>st</sup> April 2023 – 30<sup>th</sup> September 2023  
(With specific Date/ tenure)
8. Comments of the members of R A C : The members unanimously opined the progress of the scholar was satisfactory.
9. Specific suggestions, if any:
10. Remarks: Progress is good. To be continued.  
(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Dr. Maidul Hossain  
Asst. Professor  
Dept. Of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore, 721102, W.B

Supervisor: Dr. Maidul Hossain *Maidul Hossain 7/12/23*

Convenor of RAC: Dr. Maidul Hossain *Maidul Hossain 7/12/23*  
Head  
Department of Chemistry  
Vidyasagar University  
Midnapore - 721102

Secretary of the Ph.D. Committee: Prof. Subal Chandra Manna

Dr. Sudipta Dalai  
Professor

Member of the Ph.D. Committee: Prof. Sudipta Dalai

Dept. of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore, 721102, W.B., INDIA

External Expert Member: Prof. Subrata Mukhopadhyay

*Subrata Mukhopadhyay 7/12/23*

Internal Expert Member: Dr. Anirban Basu

*Basu 7/12/2023*  
DR. ANIRBAN BASU  
Assistant Professor  
Dept. of Chemistry  
Vidyasagar University  
Midnapore-721102

Dr. Subrata Mukhopadhyay  
Professor of Chemistry  
Jadavpur University  
Kolkata - 700032

## Report of the meeting of R A C

1. Name of the Candidate: Subhajit Barman
2. Name of the Department: Department of Chemistry
3. Title of the Thesis: "Synthesis of Berberine-coumarine derivatives and their interaction with DNA".
4. Registration No With date & year: 1082/Ph.D(Sc.), Date of Registration: 01/08/2023
5. Name of the Supervisor: Dr. Maidul Hossain
6. Date of meeting of R A C: 31/05/2024
7. Progress of Research Work: 1<sup>st</sup> October 2023 – 31<sup>st</sup> March 2024  
(With specific Date/ tenure)
8. Comments of the members of RAC: The members unanimously opined the progress of the scholar was satisfactory.
9. Specific suggestions, if any: {
10. Remarks: *Progress is good. To be continued.*  
(Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Supervisor: Dr. Maidul Hossain

*Maidul Hossain*  
31/5/24

Dr. Maidul Hossain  
Asst. Professor  
Dept. Of Chemistry  
VIDYASAGAR UNIVERSITY  
Midnapore, 721102, W.B

Convenor of RAC: Dr. Maidul Hossain

*Maidul Hossain*  
31/5/24

Secretary of the Ph.D. Committee: Prof. Subal Chandra Manna

*Subal Chandra Manna*  
31/5/24  
Head  
Department of Chemistry  
Vidyasagar University  
Midnapore - 721102

Member of the Ph.D. Committee: Prof. Sudipta Dalai

*Sudipta Dalai*  
31/5/2024  
Professor  
Department of Chemistry  
and Chemical Technology  
Vidyasagar University  
Midnapore - 721102, W.B., India

External Expert Member: Prof. Subrata Mukhopadhyay

*Subrata Mukhopadhyay*  
31/5/24

Dr. Subrata Mukhopadhyay  
Professor of Chemistry  
Jadavpur University  
Kolkata - 700032

Internal Expert Member: Dr. Anirban Basu

DR. ANIRBAN BASU  
Assistant Professor  
Dept. of Chemistry  
Vidyasagar University  
Midnapore-721102

*Anirban Basu*  
31/5/24

## Report of the meeting of R A C

1. Name of the Candidate : ANINDITA SINGHA
  2. Name of the Department : Chemistry and Chemical Technology
  3. Title of the Thesis : Synthesis and Self-assembly studies of novel cholesterol based amphiphiles. A potential candidate for drug delivery & sensing agent.
  4. Registration No With date & year: 1183/Ph.D/Sc. Date - 31/10/2023
  5. Name of the Supervisor(s) : Prof. Sumita Roy
  6. Date of meeting of R A C : 31/05/2024
  7. Progress of Research Work :  
(With specific Date/ tenure) 3/10/2023 - 31/05/2024
  8. Comments of the members of R A C: Research scholar demonstrated her work by power point presentation and answered all queries successfully
  9. Specific suggestions, if any :
  10. Remarks : The progress of the research scholar is satisfactory
- (Separate sheets may be used if necessary.)

### Signature of the Member of R A C

Signature of the Secretary, Ph. D. Committee :

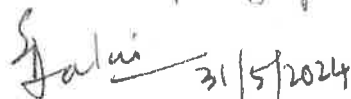
  
31/5/24

Signature of the External Expert



Dr. Dipankur Chattopadhyay  
Professor  
Department of Polymer Science & Technology  
University of Calcutta  
92, A.P.C. Road, Kolkata-700 009

Signature of the Member

  
31/5/2024

Anirban Basu

Signature of the Supervisor

  
Sumita Roy 31.05.2024

31/05/2024



### Report of the meeting of RAC

1. Name of the Candidate : Sukhendu Kar
2. Name of the Department : Department of Chemistry
3. Title of the Thesis : *"Isolation of natural Products and study of its self-assembly Properties and biological activities."*
4. Registration No with date & year : 481/ Ph.D (Sc.), 27.09.2021
5. Name of the Supervisor(s) : Professor Braja Gopal Bag
6. Date of meeting of RAC : 31.05.2024
7. Progress of Research Work : 31.03.2023 – 31.05.2024  
(With specific Date / tenure)
8. Comments of the members of RAC :
9. Specific suggestions, if any :
10. Remarks :

(Separate sheets may be used if necessary)

### Signature of the Member of RAC

Signature of the Secretary, Ph.D. Committee:

 31/05/24

Signature of the External Expert :

 31/5/24

**Dr. Subrata Mukhopadhyay**  
Professor of Chemistry  
Jadavpur University  
Kolkata - 700032

Signature of the Member :

Signature of the Supervisor :

 31/5/24

 31/5/2024



বিদ্যাসাগর বিশ্ববিদ্যালয়  
**VIDYASAGAR UNIVERSITY**  
**Department of Chemistry**

Professor Braja Gopal Bag

May 31, 2024

Proceedings of the Research Advisory Committee (RAC) meeting of Sukhendu  
Kar held on 31.05.2024

**1) Members Present:**

**Supervisor:** Professor Braja Gopal Bag

**Convenor of RAC:** Professor Braja Gopal Bag

**Secretary of the Ph.D. Committee:** Prof. Subal Chandra Manna

**Member of the Ph.D. Committee:** Professor Sudipta Dalai

**External Expert Member:** Professor Subrata Mukherjee, Jadavpur University

**Internal Expert Member:** Professor Sudipta Dalai, VU

**2) Agenda:**

RAC committee meeting of Sukhendu Kar held on 31.05.2024.

**Resolution:**

The work done by the candidate so far,  
is no doubt, excellent. Within the time period  
of <sup>this</sup> RAC, the progress of the scholar is more than  
good. We appreciate these works. ———— 31/5/24

Subrata Mukhopadhyay  
31/5/24

Dr. Subrata Mukhopadhyay  
Professor of Chemistry  
Jadavpur University  
Kolkata - 700032

————— 31/5/24

————— 31/5/24

Dal-  
31/5/2024

RAC presentation  
on  
Vesicular Self-assembly of a Monohydroxy  
Triterpenoid Betulinic acid: Adsorption and  
Removal of Toxic Chemicals

presented by  
Sukhendu Kar

Reg. No. 481/ Ph.D (Sc.)

Date of Registration: 27.09.2021

Under the Supervision  
of  
Professor Braja Gopal Bag

Department of Chemistry  
Vidyasagar University  
Midnapore-721102  
West Bengal, India

*Subrata Mukhopadhyay*  
31/5/24  
Dr. Subrata Mukhopadhyay  
Professor of Chemistry  
Jadavpur University  
Kolkata - 700032

*Ranjan*  
31/5/24

*Sukhendu*  
31/5/2024

*Subrata Mukhopadhyay*  
31/5/24

# Vesicular Self-assembly of a Monohydroxy Triterpenoid Betulinic acid: Adsorption and Removal of Toxic Chemicals

Department of Chemistry and Chemical Technology

Vidyasagar University

Midnapore 721102

West Bengal, India

**Keywords:** Triterpenoid, Betulinic acid, Self-assembly, Vesicles.

**Abstract:** Betulinic acid is a 6-6-6-6-5 pentacyclic monohydroxy triterpenic acid. It is isolated from the bark powder of *Ziziphus jujube* and purified by an improved method developed in our laboratory. Herein, we report the first vesicular self-assembly properties of betulinic acid **1**. We study self-assembly properties of **1** in different neat organic liquids and aqueous-organic binary liquids mixtures. Spontaneous self-assembly of **1** in binary liquid mixture yielded spherical like vesicular structures of nano to micro-meter dimensions. Utilization of the self-assemblies has been demonstrated in the drug delivery and removal of carcinogenic and toxic chemicals.

## 1. Introduction

Terpenoids are natural products containing multiple of isoprene (C5) units. Natural occurring terpenoids are starting from mono- (C10), sesqui- (C15), di- (C20), sester- (C25), tri- (C30) and tetra- (C40) terpenoids. All plant based terpenoids are renewable in nature and have nanometric

lengths and so they are also called

renewable molecular functional

nanos<sup>1</sup>. Betulinic acid 1, is a

monohydroxy 6-6-6-6-5

pentacyclic triterpenic acid,

obtainable from different plants

such as ziziphus jujube, birch,

eucalyptus and plane trees. It has

several biological and

pharmacological properties such as

antibacterial, antiviral, anti-

inflammatory, antidiabetic, anti-HIV,

antitumor and antimalarial effects<sup>2</sup>. Betulinic acid forms mainly gels and partial gels in most of

the different neat organic liquids and aqueous-organic binary liquids mixtures. Hence, betulinic

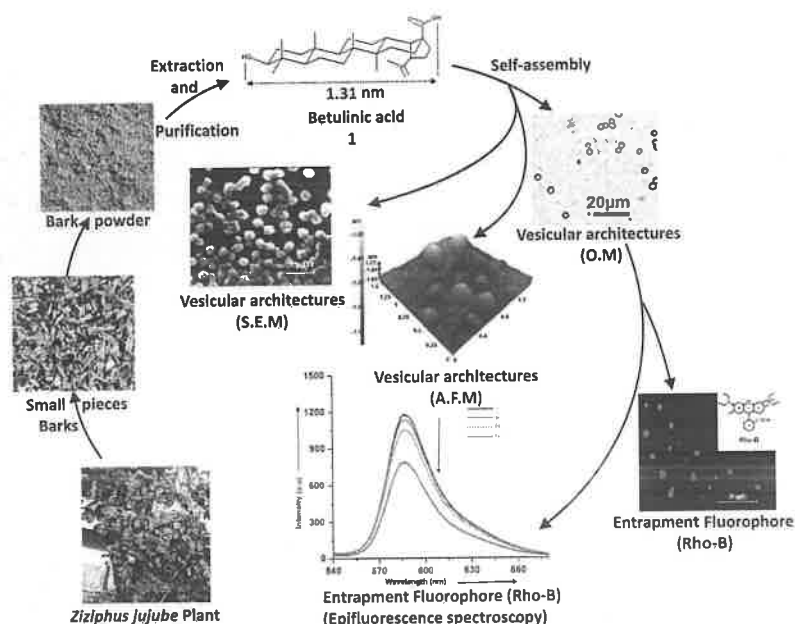
acid 1 is a good gelator reported<sup>3</sup>. Previously, the fibrillar self-assembly properties of Betulinic

acid 1 in different neat organic solvents and aqueous-organic binary liquids mixtures is reported<sup>3</sup>

but herein we first reported vesicular self-assembly properties of Betulinic acid 1 in aqueous-

organic binary liquids mixtures along with their morphological characteristics. However, to our

knowledge, the vesicular self-assembly of the triterpenoids without derivatization has not been



**Figure 1:** Schematic presentation of Self-assemblies of Betulinic acid 1, yielding vesicle like superstructures and application in removal of toxic dyes.

reported so far. The vesicular self-assembly of Betulinic acid in aqueous binary liquid mixtures yielding supramolecular spherical-like superstructures of nano to micro-meter dimensions. Atomic force microscopy (AFM) and scanning electron microscopy (SEM) studies indicated that the vesicular architecture having nano to micro-meter dimensions. The vesicle-like self-assemblies of **1** having spherical surfaces were capable of adsorbing fluorophore molecules. This adsorption property of the self-assemblies was further applied for the removal of toxic dyes such as rhodamine B (Rho- B) from their aqueous solutions.

## **2. Results and discussion**

### **2.1 Isolation of Betulinic acid**

The stem bark of *Ziziphus jujube* was collected from Vesojo Udan of department of chemistry of Vidyasagar University, Midnapore, West Bengal, India. Betulinic acid is a white solid powder, isolated from the bark powder of *Ziziphus jujube* following an optimized procedure developed in our laboratory.

### **2.2 Study of self-assembly properties**

Self-assembly studies of Betulinic acid **1** were carried out in several neat organic liquids as well as binary aqueous liquids (Table 1). Powdered solid of **1** (generally 1 - 4 mg) was weighed in a dry vial and then dissolved in a solvent by heating with magnetic stirring. The hot solution obtained was allowed to cool at room temperature and observed visually after 2-3 h. For studying the self-assembly in binary aqueous solvent mixtures, powdered solid of **1** was first solubilised in the neat organic liquid by heating and then water was added gradually until cloudiness appeared. The resultant mixture was heated with magnetic stirring to obtain a clear solution and then the

solution was allowed to cool at room temperature and observed. Interestingly, gel was obtained in neat organic liquid such as DMSO (56.92 mM), and partial gel in aqueous binary solvents like EtOH-H<sub>2</sub>O (4:1, 41.25 mM), clear solution in EtOH (52.55 mM) and colloidal solution in DMSO - H<sub>2</sub>O (4:1, 43.09 mM).

Entry	Medium (V/V)	Conc (%)	Conc (mM)	State <sup>[a]</sup>
1.	DMSO-H <sub>2</sub> O (4:1)	1.96	43.09	CS
2.	EtOH-H <sub>2</sub> O (4:1)	1.88	41.25	PG
3.	DMSO	2.6	56.92	G
4.	EtOH	2.4	52.55	S

<sup>[a]</sup> CS = colloidal suspension, PG = partial gel, G = gel, S = clear solution.

**Table 1:** Self-assembly studies of Betulinic acid **1** in neat organic liquids and aqueous binary liquids.

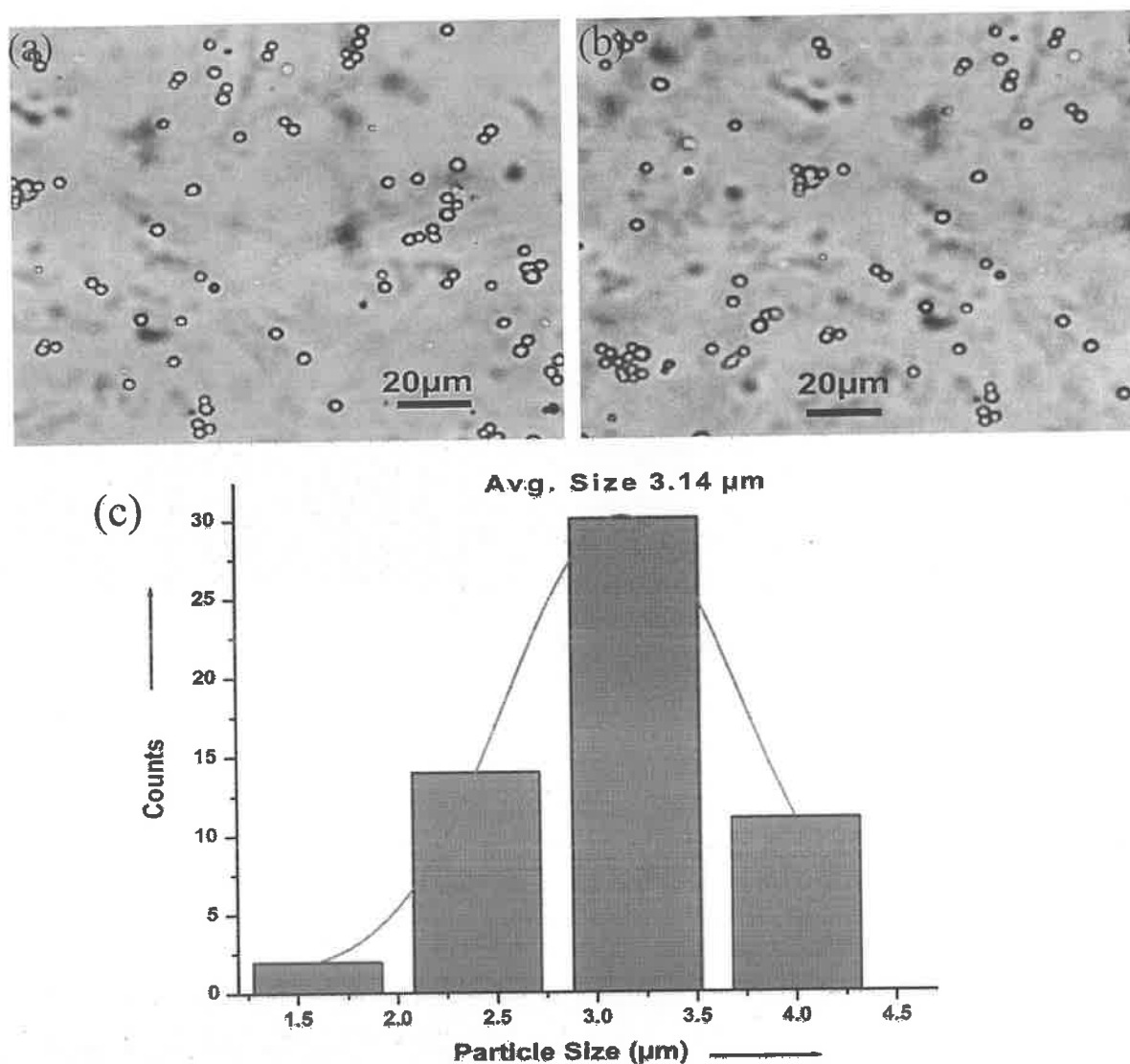
### 2.3 Characterization of morphology of the self-assemblies

Morphologies of the self-assembled Betulinic acid were studied by optical microscope (OM), scanning electron microscopy (SEM), atomic force microscopy (AFM) and Fourier Transform Infrared Spectroscopy (FTIR) studies.

#### 2.3.1 Optical Microscopic Study

To investigate the morphology of the self-assemblies of Betulinic acid **1**, optical microscope studies are carried out by placing the dilute colloidal solution of MeOH, EtOH and in aqueous binary solvent mixtures such as DMSO-H<sub>2</sub>O (4:1, 43.09 mM) in their native state, over glass plates and covering those with cover slips. Vesicle-like spherical objects of micrometer size are observed in aqueous binary solvent mixtures of DMSO-H<sub>2</sub>O (4:1, 43.09 mM) (Figure 2).

Spherical like vesicular objects were observed with average diameter of  $3.14\text{ }\mu\text{m}$  in DMSO- $\text{H}_2\text{O}$  (4:1 v/v). (Figure S4). This is also observed from AFM and SEM experiments.

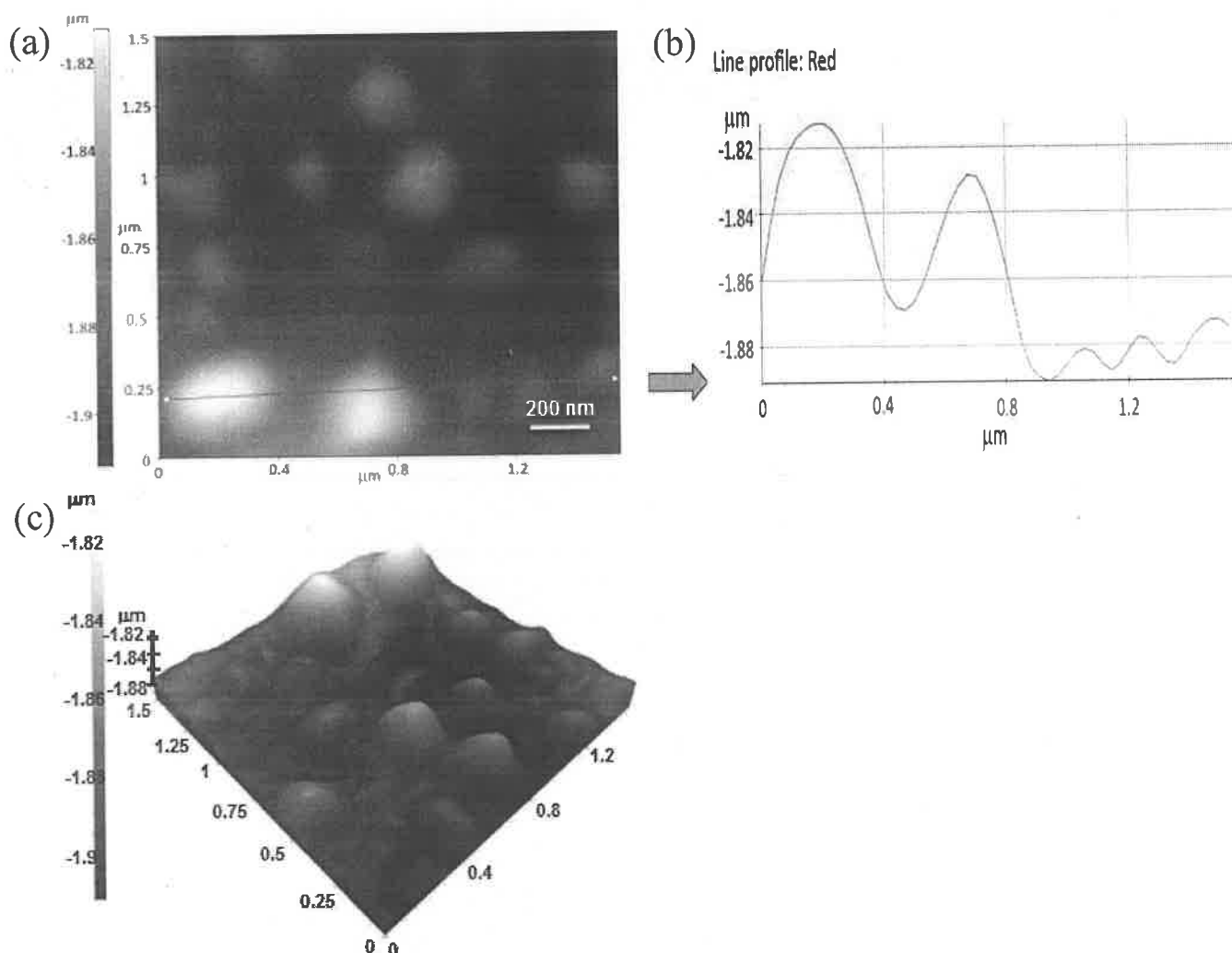


**Figure 2.** OPM images of self-assemblies of **1**: (a,b) in DMSO- $\text{H}_2\text{O}$  (4:1, 43.09 mM) under normal light and (c) the plot of particle(vesicle like spherical objects) size vs counts in DMSO- $\text{H}_2\text{O}$  (4:1), this inform us average diameter of spherical objects ( $3.14\text{ }\mu\text{m}$ ).



### 2.3.2 AFM Studies

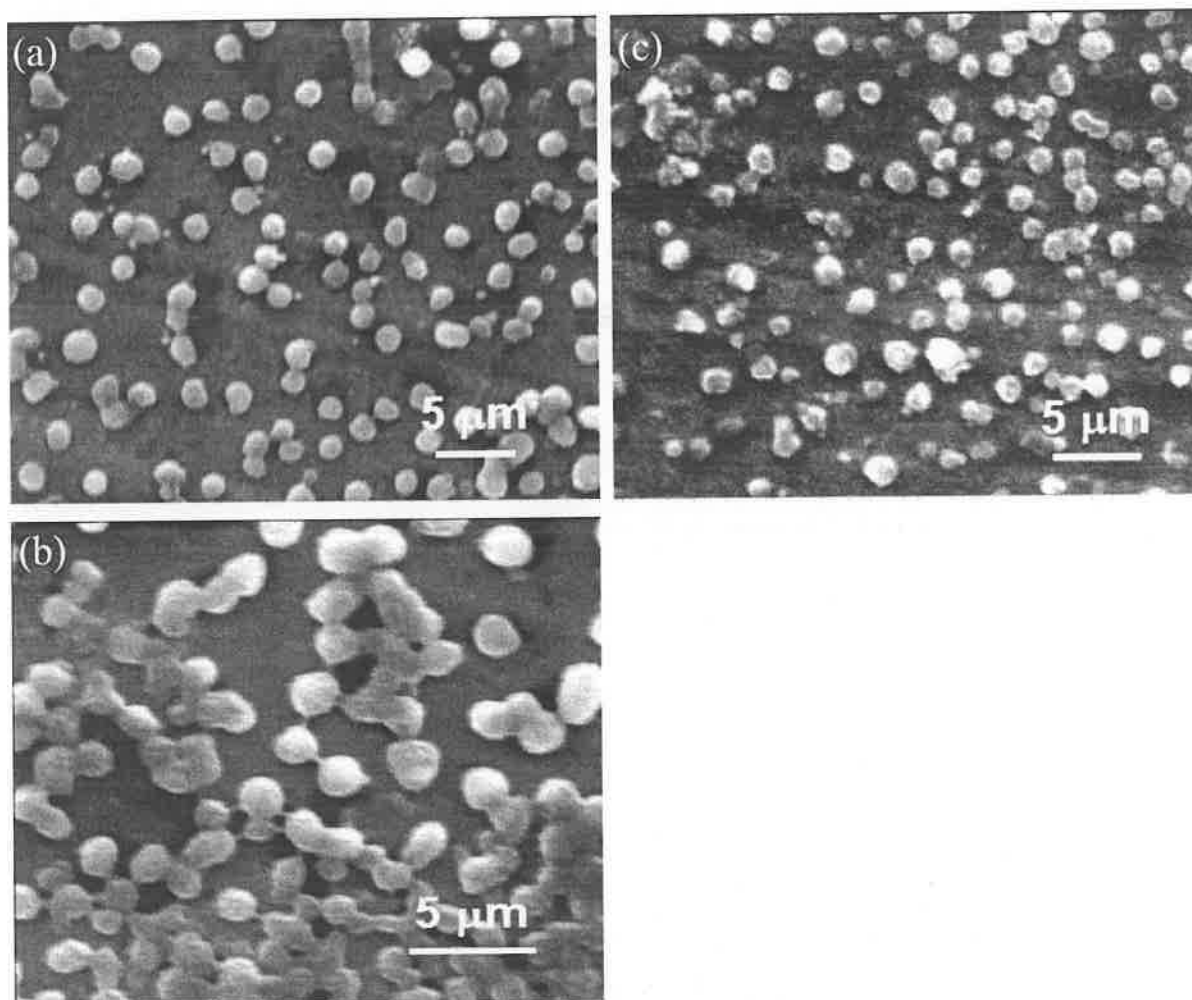
The interesting spherical-like objects observed by the morphology of the self-assemblies of **1** with high resolution 3D topological image by atomic force microscopy. The vesicles like spherical structures of the dried self-assemblies of **1** in the DMSO-H<sub>2</sub>O (4:1, 43.09 mM) were observed with an average diameter of 0.2 to 0.5  $\mu\text{m}$  (Figure 3). This observation indicated that the spherical-like structures were composed of vesicles of 200-500 nm diameter.



**Figure 3.** AFM images of dried self-assemblies of **1** in DMSO-H<sub>2</sub>O (4:1, 43.09 mM) (a) 2D image of vesicular self-assemblies, (c) 3D image of vesicular self-assemblies and (d) line profile of spherical objects drawing by a line in (a).

### 2.3.3 SEM studies

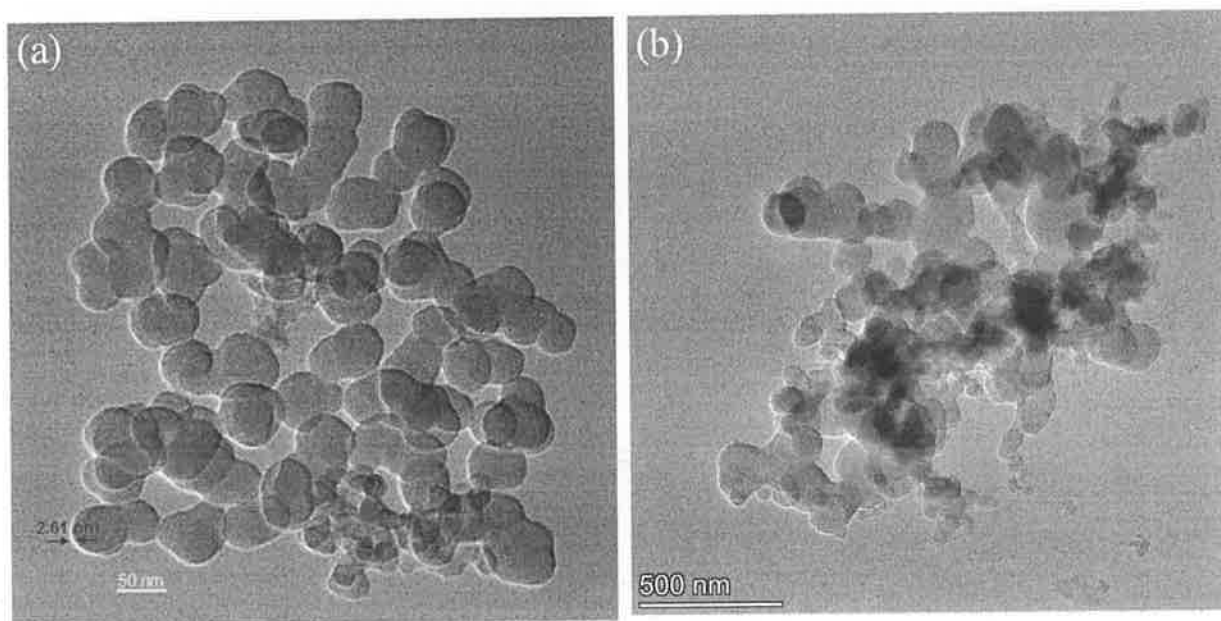
The self-assemblies of **1** in DMSO-H<sub>2</sub>O (4:1 v/v, 2, 8 mM,) are dried at room temperature and observed under scanning electron microscope (SEM). Spherical-like vesicular structure of 1 to 3  $\mu\text{m}$  diameter is observed (Figure 4) in the dried self-assemblies in all of the samples. The shape of the vesicles and their fusion are different from each other (Figure (a) – (c)) probably due to the different interactions between solvent and solute.



**Figure 4.** SEM images of dried self-assemblies of **1** in (a,b) DMSO-H<sub>2</sub>O (4:1v/v, 2 mM) and (c) DMSO-H<sub>2</sub>O (4:1v/v, 8 mM).

### 2.3.4 HRTEM studies

The spherical self-assembly of **1** is observed by optical microscope, atomic force microscope (AFM) and scanning electron microscope (SEM). We also study HRTEM to observed morphology of **1**. The colloidal solution of **1** in DMSO- H<sub>2</sub>O (4:1 v/v, 1 mM, 0.045% w/v) is dropped in a TEM grid and observed vesicular morphology of **1** in a HRTEM instrument. The membrane thickness of the vesicular self-assembly is 2.61 nm observed by HRTEM (Fig. 5 ), which is twice the molecular length of betulinic acid( 1.31 nm). From this observation we concluded that bilayer vesicles is formed of **1** in DMSO- H<sub>2</sub>O (4:1 v/v, 1 mM, 0.045% w/v).



**Fig. 5** HRTEM images of self-assembled **1** in DMSO- H<sub>2</sub>O (4:1 v/v, 1 mM, 0.045% w/v) at different magnifications (a,b). The membrane thickness measured was 2.61 nm, which is double of the molecular length of betulinic acid( 1.31 nm).

### 2.3.5 FTIR studies

Non-covalent interactions such as H-bonding from the “O–H” and “COOH” groups and lypophilic interactions from the triterpenoid backbone may play a significant role in addition to the solvophobic interactions during the self-assembly process. To investigate the role of H-bonding, FTIR studies were carried out with the self-assemblies obtained from DMSO–H<sub>2</sub>O, and the stretching frequencies were compared to the neat powder. The stretching frequency of the “–O–H” group in the neat powder appearing at 3463 cm<sup>–1</sup> shifted to lower frequencies appearing at 3394 cm<sup>–1</sup> for the self-assemblies prepared from DMSO– H<sub>2</sub>O. But the stretching frequency of the “–C=O” group in the neat powder (1682 cm<sup>–1</sup>) and the self assemblies (1660 cm<sup>–1</sup>) did not

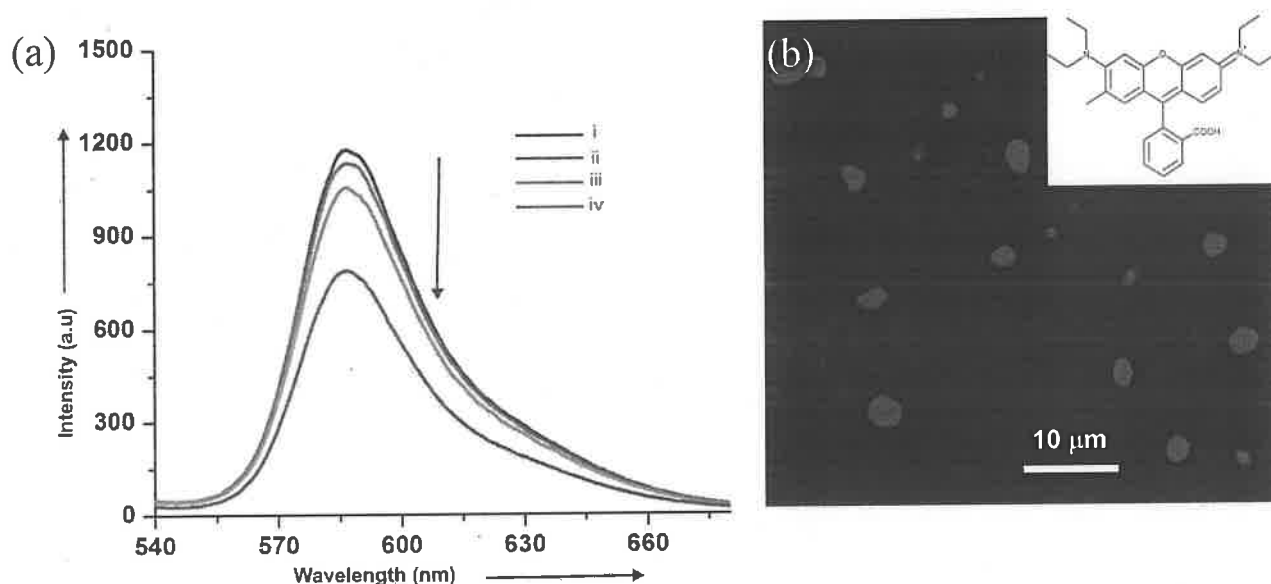
change significantly. Thus, the lowering of the  $\text{-O-H}$  stretching frequencies was due to intermolecular H-bonding among the O-H groups inside the self-assemblies (Figure S6).

## **2.4 Utilization of self-assemblies**

There are many synthetic drug delivery systems has been developed in the world and introduced to the market, but their aapplications are limited due to cytotoxicity, inefficiency, immunogenicity etc. Vesicles are natural carrier systems, which play important roles in intercellular communication and for drug delivery<sup>4</sup>. Vesicular structures are observed from O.M, AFM and SEM analysis of the self-assemblies of **1** in DMSO- $\text{H}_2\text{O}$  (4:1 v/v). These vesicles are highly active to adsorb drug or cytotoxic ions and therefore deliver or remove very fast.

### **2.4.1 Entrapment of toxic and carcinogenic dye**

The toxic and carcinogenic dye Rhodamine B (Rho-B) causes several diseases for humans<sup>5</sup>. Hence, our aim to adsorb this toxic dye, which is used in paint and printing industries. The formation of micro-sized vesicular self-assemblies of Betulinic acid **1** in DMSO- $\text{H}_2\text{O}$  (4:1 v/v) (Figure S8) inspired us to search the entrapment of Rho-B inside the vesicular self-assemblies. For this study, hot solution of Betulinic acid in DMSO- $\text{H}_2\text{O}$  (2.29 mM, 4:1 v/v) containing Rho-B (0.0229 mM) was cooled at room temperature and observed under the epifluorescence microscope, bright red fluorescence from the inner portion of the vesicular self-assemblies indicated the entrapment of fluorophore (Rho-B) inside the vesicles (Figure 7 b). Entrapment of toxic dye by the vesicular self-assemblies is also supported by fluorescence emission studies. The fluorescence emission intensity decreases gradually on entrapment of Rho-B inside the self-assemblies within 21 h (Figure 7 a).

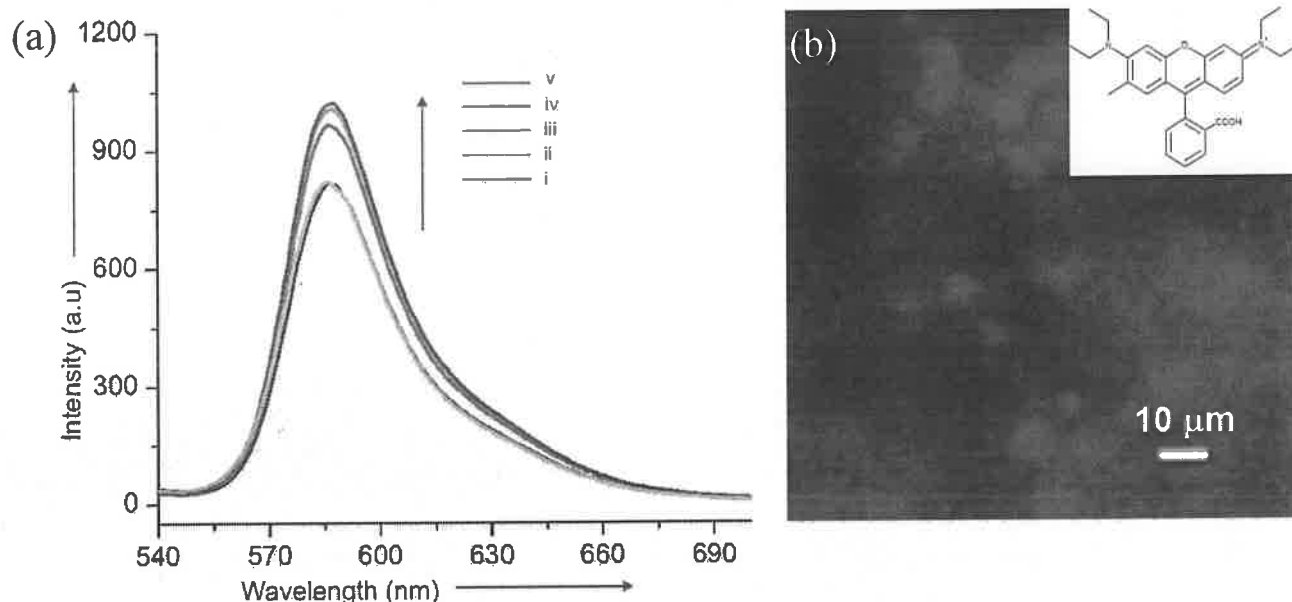


**Figure 7:** Entrapment of rhodamine-B by the vesicular self-assemblies of **1** in DMSO–H<sub>2</sub>O (2.29 mM, 4:1 v/v), (a) fluorescence emission spectra ( $\lambda_{\text{max(ex.)}}$  510 nm) at different time intervals: (i) free rhodamine-B (0.0229 mM), (ii) after 1 h, (iii) after 3 h and (iv) after 21 h. (b) Fluorescent images of vesicular self-assembled **1** (2.29 mM) containing rhodamine-B (0.0229 mM).

#### 2.4.2 Removal of toxic and carcinogenic dyes from contaminated water

Triton X-100 is a nonionic surfactant used for lysing cells to extract protein and other cellular organelles. This disrupting action of Triton X-100 molecules due to its polar head groups form the hydrogen bonds with the cell lipid bilayer<sup>6</sup>. The Rhodamine-B loaded vesicular self-assemblies of Betulinic acid **1** in DMSO–H<sub>2</sub>O (2.29 mM, 4:1 v/v) with Triton X-100 (0.0229 mM) is also studied to remove the toxic and carcinogenic dye by disrupting of vesicular membrane structures. Epifluorescence microscope study is carried out by taking the Rhodamine-B and Triton X-100 loaded self-assemblies of **1** in DMSO–H<sub>2</sub>O (2.29 mM, 4:1 v/v) in a quartz cuvette with 2 mm path length at different time intervals up to 22 h. The fluorescence emission intensity increases gradually on release of Rho-B from the Rho-B loaded self-assemblies (Figure

8 a). The surfactant (Triton X-100 ) triggered release of entrapped dye (Rho-B) molecules is confirmed by the lysis of the spherical self-assemblies (Figure 8 a).



**Figure 8:** Triton X-100 (0.0229 mM) triggered release of entrapped rhodamine-B from the vesicular self-assemblies of 1 in DMSO–H<sub>2</sub>O(2.29 mM, 4:1 v/v), (c) Fluorescence emission spectra ( $\lambda_{\text{max}}(\text{ex.})$  510 nm) of release of entrapped rhodamine-B at different time intervals: (i) 1 h, (ii) 4 h, (iii) 20 h, (iv) 21 h and (v) 22 h. (d) Fluorescent images of release of encapsulated rhodamine-B from the disrupting of vesicular structure of 1 under green emission light.

### 3. Conclusions

Herein, we report the first vesicular self-assembly properties of betulinic acid .We study self-assembly properties of betulinic acid in different neat organic liquids and aqueous-organic binary liquids mixtures, yielded spherical like vesicular structures of nano to micro-meter dimensions. Utilization of the vesicular self-assemblies has been demonstrated in the drug delivery and removal of carcinogenic and toxic chemicals.



**VIDYASAGAR UNIVERSITY**  
**MIDNAPORE-721102, WEST BENGAL**

**AQAR**  
**(2023 – 2024)**

**2.6.3 List of Programmes and number of students passed and appeared in the final year examination**

Program Code	Program Name	Number of students appeared in the final year examination	Number of students passed in final year examination
M.A.	BENGALI	108	108
M.A.	ECONOMICS	3	3
M.A.	ENGLISH	97	97
M.A.	HINDI	28	26
M.A.	HISTORY	103	99
M.A.	PHILOSOPHY	60	55
M.A.	POLITICAL SCIENCE	65	60
M.A.	SANSKRIT	57	57
M.A.	SANTALI	41	39
M.A.	SOCIOLOGY	33	33
M.Com	COMMERCE	17	16
M.Sc.	ANTHROPOLOGY	21	19
M.Sc.	APPLIED MATHEMATICS WITH OCEANOLOGY AND COMPUTER PROGRAMMING	60	59
M.Sc.	BIO MEDICAL LABORATORY SCIENCE AND MANAGEMENT	20	20
M.Sc.	BOTANY	60	59
M.Sc.	CHEMISTRY	60	60
M.Sc.	CLINICAL NUTRITION & DIETETICS	32	32
M.Sc.	COMPUTER SCIENCE	32	32
M.Sc.	ECONOMICS	22	21
M.Sc.	ELECTRONICS	11	11
M.Sc.	FISHERIES SCIENCE	30	30
M.Sc.	GEOGRAPHY	58	57
M.Sc.	HUMAN PHYSIOLOGY	37	32
M.Sc.	MICROBIOLOGY	27	27
M.Sc.	PHYSICS	52	40
M.Sc.	REMOTE SENSING AND GIS	51	51
M.Sc.	ZOOLOGY	43	41
MBA	MASTER OF BUSINESS ADMINISTRATION	55	55
MCA	MASTER OF COMPUTER APPLICATION	54	40
	<b>TOTAL</b>	<b>1337</b>	<b>1279</b>

*Rajul*  
31/1/2025



VIDYASAGAR UNIVERSITY  
MIDNAPORE-721102, WEST BENGAL

Report  
(2023-2024)

Automation in areas of Examination:

- a. **Processing of Admit Card for PG students:** After the examination form fill up, the forms are processed through **software** and students are provided with a link to generate online admit card by providing details like Roll No./ Registration Number, etc. The **Descriptive Roll** is generated through **online mode** and handed over to the respective department.
- b. **Coding – Decoding system for Evaluation processing in PG Examinations:**  
During examination, the students are provided with **Blank answer scripts containing OMR Sheets** which also serve as award slip without disclosing the identity of a student to an examiner. It has a coding decoding system with bar codes. The student attendance part is then perforated and uploaded in the system after **scanning**. The scripts are sent to the examiners after coding which helps to maintain the confidentiality of the scripts. The marks are captured into the system through the **scanner** and the result is processed through the **software [Vendor engaged]**.
- c. **Result processing in PG Examinations:**  
The entire result processing is done through **software [Vendor engaged]** with proper verification procedures. The marks are validated through the software.
- d. **Preparation of Tabulation Sheet in PG Examinations:**  
Once the result is processed, the complete tabulation sheets are generated in **online mode** and send to tabulators for validation and thereafter the mark sheets are generated through the software by providing USIN of the student **[Vendor engaged]**.
- e. **Preparation of Grade Card in PG Examinations:**  
The grades along with credit points are reflected in both tabulation sheet and mark sheet **[Vendor engaged]**.
- f. **Preparation of Certificate for PG Courses:**  
The final certificates are printed as per the USIN of the students **[Vendor engaged]**.
- g. For Under Graduate Examinations, the preparation of **Form List, Admit card, Notification for Examinations, Descriptive Roll (DR), Roll List for Practical Based Subjects, Marks Processing and Publication of Results**, are completely done by using various **software [Vendor engaged]**.

*Ripal*  
31/01/2025

Controller of Examinations (Offg.)  
Vidyasagar University  
Midnapur - 721102





VIDYASAGAR UNIVERSITY  
MIDNAPORE-721102, WEST BENGAL

AQAR  
(2023-2024)

For the academic session 2023-2024, the final examination of the different PG programmes was completed as per the following dates:

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year-end examination
BENGALI	M.A.	2024	02-07-2024	28-08-2024
ECONOMICS	M.A.	2024	18-07-2024	06-08-2024
ENGLISH	M.A.	2024	02-07-2024	13-08-2024
HINDI	M.A.	2024	08-07-2024	23-07-2024
HISTORY	M.A.	2024	02-07-2024	16-08-2024
PHILOSOPHY	M.A.	2024	04-07-2024	21-08-2024
POLITICAL SCIENCE	M.A.	2024	02-07-2024	23-07-2024
SANSKRIT	M.A.	2024	12-07-2024	29-07-2024
SANTALI	M.A.	2024	02-07-2024	06-08-2024
SOCIOLOGY	M.A.	2024	04-07-2024	29-07-2024
COMMERCE	M.Com	2024	11-07-2024	06-08-2024
ANTHROPOLOGY	M.Sc.	2024	29-07-2024	05-08-2024
APPLIED MATHEMATICS WITH OCEANOLOGY AND COMPUTER PROGRAMMING	M.Sc.	2024	23-07-2024	12-08-2024
BIO MEDICAL LABORATORY SCIENCE AND MANAGEMENT	M.Sc.	2024	16-07-2024	31-07-2024
BOTANY	M.Sc.	2024	23-07-2024	13-08-2024
CHEMISTRY	M.Sc.	2024	01-08-2024	16-08-2024
CLINICAL NUTRITION & DIETETICS	M.Sc.	2024	16-07-2024	20-08-2024
COMPUTER SCIENCE	M.Sc.	2024	24-07-2024	05-08-2024
ECONOMICS	M.Sc.	2024	18-07-2024	06-08-2024
ELECTRONICS	M.Sc.	2024	19-07-2024	05-08-2024
FISHERIES SCIENCE	M.Sc.	2024	12-07-2024	23-07-2024
GEOGRAPHY	M.Sc.	2024	22-07-2024	12-08-2024
HUMAN PHYSIOLOGY	M.Sc.	2024	24-07-2024	16-08-2024
MICROBIOLOGY	M.Sc.	2024	19-07-2024	16-08-2024
PHYSICS	M.Sc.	2024	18-07-2024	23-08-2024
REMOTE SENSING AND GIS	M.Sc.	2024	12-07-2024	23-07-2024
ZOOLOGY	M.Sc.	2024	09-08-2024	16-08-2024

*Signature*  
31/01/2025



VIDYASAGAR UNIVERSITY  
MIDNAPORE-721102, WEST BENGAL

MASTER OF BUSINESS ADMINISTRATION	MBA	2024	09-07-2024	12-08-2024
MASTER OF COMPUTER APPLICATION	MCA	2024	16-07-2024	05-08-2024
BACHELOR OF LIBRARY AND INFORMATION SCIENCE	BLISC	2024	29-07-2024	16-08-2024
MASTER OF LIBRARY AND INFORMATION SCIENCE	MLISC	2024	25-09-2024	03-10-2024

*R. Sanyal*  
31/01/2025  
Controller of Examinations (Offg.)  
Vidyasagar University  
Midnapur-721102

# VIDYASAGAR UNIVERSITY

Midnapore - 721 013  
West Bengal

Phone: (03222) 27651, 355  
Fax No.: (03222) 275329  
Website: vidyasagar.ac.in

3.	Details of Bidder's Experience of providing Services of similar nature during the last 5 years (Annex-6)	Submitted as F.O. Amended suggested	submitted	Work experiences are not as per requirement
	Remarks	Partially Eligible	Eligible	Not Eligible

This is the technical summary of the second tender called for the "DEVELOPMENT & DEPLOYMENT OF UNIVERSITY WEBSITE WITH IQAC DATA". We checked thoroughly the submitted three (03) tenders and find only one tender is eligible. Since it is the second call, as per rule, we can choose the second vender, if the financial criteria is fulfill. Two bids are not ellisibale

① F.O. 20/01/25 date - 13/01/25 because of no work-experience as per NIT.

Kindly, check the financial eligisibily and do the needfull for issue the workorder as soon as possible.

⑧ F.O. 20/01/25

⑪ F.O. 13/01/2025

Financial bidder opened as per instruction. 27-1-25

⑤ F.O.

Approved as suggested

18/01/2025

⑦ F.O. 20/01/25

Kindly forward for opening the financial bid

②

AO

for next comm action

17/01/25

⑫

AO

for 28/01/25

Evaluation Committee

- ① F.O. chairman
- ② Audit officer
- ③ IQAC, Director
- ④ ED CC
- ⑤ System Analyst
- ⑥ Asst. NO. of qualified bidder
- ⑦ Asst. NO. of technical bid
- ⑧ Asst. NO. of financial bid
- ⑨ Asst. NO. of one in any

③

16/01/2025

④

16/01/25

As suggested, financial bid may be opened subject to the approval of

Programmer

Pl. open financial

⑥

AO

20/01/25



## Report of RAC Meeting

**Vidyasagar University, Midnapore-721102**

1. **Date of RAC meeting:** 06.06.2024
2. **Name of the candidate:** Urmy Biswas
3. **Department:** Bio-Medical Laboratory Science and Management
4. **Name of the supervisor:** Surojit Das
5. **Title of the PhD thesis:** Epidemiological surveillance on extended-spectrum cephalosporin- and carbapenem-resistant *Escherichia coli* isolates in West Bengal, India: Focusing on transferrable antimicrobial resistance (AMR)
6. **Funding agency of the project (if any):** No
7. **PhD registration number and date:** 256/Ph.D. (Sc.) Date: 24-01-2021
8. **Progress from:** 29-05-2023 to 28-11-2023
9. **Comments:**

Progress of work is satisfactory

Completed 6/6/2024

Signature

*Mr. Chakrabarti*

Name of the external member of RAC

06/06/24

Signature

*Prof. Arman I. Chandra*

Name of the external member of RAC

Signature

*Surojit Das* 06/06/24

HOD/Secretary of PhD committee

Signature

Supervisors

*Surojit Das* 6/6/24

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore-721102

## Report of RAC Meeting

**Vidyasagar University, Midnapore-721102**

1. **Date of RAC meeting:** 06.06.2024
2. **Name of the candidate:** Urmy Biswas
3. **Department:** Bio-Medical Laboratory Science and Management
4. **Name of the supervisor:** Surojit Das
5. **Title of the PhD thesis:** Epidemiological surveillance on extended-spectrum cephalosporin- and carbapenem-resistant *Escherichia coli* isolates in West Bengal, India: Focusing on transferrable antimicrobial resistance (AMR)
6. **Funding agency of the project (if any):** No
7. **PhD registration number and date:** 256/Ph.D. (Sc.) Date: 24-01-2021
8. **Progress from:** 29.11.2022 to ~~28~~ 05-2023
9. **Comments:** work is satisfactory.

Signature

Name of the external member of RAC

06/06/24

Signature

Name of the external member of RAC

Signature

HOD/Secretary of PhD committee

Signature

Supervisors

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

## Report of RAC Meeting

Vidyasagar University, Midnapore – 721102

1. Date of RAC meeting: 06/06/2024
2. Name of the candidate: Sayandev Midya
3. Departments: Bio-Medical Laboratory Science and Management
4. Name of the Supervisor (s): Dr. Chhanda Mallick
5. Title of the Ph. D thesis: Attenuation of diabetes induced testicular dysfunction by *Abroma augusta* leaves in albino rat.
6. Funding agency of this project (if any): UGC NET-JRF
7. Ph.D registration number and date: 1020/Ph.D/Sc. Date: 11.05.2023
8. Progress From: 11/11/2023 to 10/05/2024
9. Comments: Progress of work as per design of work.

Signature 6/6/2024

Signature   
Name of the external member of RAC

Signature   
Name of the external member of RAC

Signature

HOD/Secretary of Ph.D committee

Signature

Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. **Date of RAC meeting:** 06/06/2024
2. **Name of the candidate:** Sayandev Midya
3. **Departments:** Bio-Medical Laboratory Science and Management
4. **Name of the Supervisor (s):** Dr. Chhanda Mallick
5. **Title of the Ph. D thesis:** Attenuation of diabetes induced testicular dysfunction by *Abroma augusta* leaves in albino rat.
6. **Funding agency of this project (if any):** UGC NET-JRF
7. **Ph.D registration number and date:** 1020/Ph.D/Sc. Date: 11.05.2023
8. **Progress From:** 11/05/2023 to 10/11/2023
9. **Comments:** Progress as per PERT chart.

Signature

*M Chakrabarti*

Name of the external member of RAC

06/06/24

Signature

*[Signature]* 06/06/24

HOD/Secretary of Ph.D committee

Signature

*Chhanda 6/6/2024*  
*Prof. Anur K Chandra*

Name of the external member of RAC

Signature

*[Signature]* 06/06/2024

Supervisor

Prof. Debijit Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. **Date of RAC meeting:** 06/06/2024
2. **Name of the candidate:** Mukul Kumar Giri
3. **Departments:** Bio-Medical Laboratory Science and Management
4. **Name of the Supervisor (s):** Dr. Chhanda Mallick and Dr. Pradeep Kumar Das Mohapatra
5. **Title of the Ph. D thesis:** Pyrethroids induced male reproductive toxicity in albino rat -Amelioration b probiotics rich nutritional supplement formulation.
6. **Funding agency of this project (if any):** No
7. **Ph.D registration number and date:** 1019/Ph.D/Sc. Date: 11.05.2023
8. **Progress From:** 11/11/2023 to 10/05/2024
9. **Comments:** Progress of work is as per design.

Signature *M. K. Chakrabarti*  
Name of the external member of RAC  
06/06/24

*Chhanda S/6/2024*  
(Pos. Amoy & Chhanda)  
Signature  
Name of the external member of RAC

Signature *[Signature]*  
HOD/Secretary of Ph.D committee

Signature *[Signature]*  
Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102



## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. **Date of RAC meeting:** 06/06/2024
2. **Name of the candidate:** Mukul Kumar Giri
3. **Departments:** Bio-Medical Laboratory Science and Management
4. **Name of the Supervisor (s):** Dr. Chhanda Mallick and Dr. Pradeep Kumar Das Mohapatra
5. **Title of the Ph. D thesis:** Pyrethroids induced male reproductive toxicity in albino rat -Amelioration b probiotics rich nutritional supplement formulation.
6. **Funding agency of this project (if any):** No
7. **Ph.D registration number and date:** 1019/Ph.D/Sc. Date: 11.05.2023
8. **Progress From:** 11/05/2023 to 10/11/2023
9. **Comments:** Progress of work is satisfactory.

*[Signature]*  
Dean (Acad.)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Signature *[Signature]*  
Name of the external member of RAC  
06/06/24

*[Signature]* 6/6/24  
Chhanda Mallick  
Signature  
Name of the external member of RAC

Signature *[Signature]*  
HOD/Secretary of Ph.D committee

Signature *[Signature]*  
Supervisor

Prof. Debidas Ghosh  
M.Sc M.Phil, Ph.D.F.A.Sc.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

*[Signature]*  
06/06/2024  
Assistant Prof. and  
Coordinator of  
Bio Medical Laboratory  
Science & Management

## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 08/06/2024
2. Name of the candidate : ANGSHITA GHOSH
3. Departments : Bio-Medical Laboratory Science & Management
4. Name of the Supervisor (s) : Dr. Sandip Chattopadhyay
5. Title of the Ph.D thesis : Therapeutic potential of Asparagus racemosus roots in the management of polycystic ovarian syndrome (PCOS) in albino rat.
6. Funding agency of this project (if any) : Savitribai Jyotirao Phule Single Girl Child Fellowship.
7. Ph.D registration number and date : 669 / Ph.D / Science . 17.03.22.
8. Progress from : 18/03/2023 to 16/09/2023
9. Comments : work is going on as per PERT chart.

Dean (Acad.)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Signature *[Signature]*  
Name of the external member of RAC

06/06/24

Signature 6/6/2024 ✓  
(Prof. Anirban K. Choudhury)

Signature  
Name of the external member of RAC

Signature *[Signature]*  
HOD/Secretary of Ph.D committee

Prof. Debasis Ghosh  
M.Sc., M.Phil., Ph.D., F.A., S.C.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Signature  
Supervisor

06/06/24  
DR. SANDIP CHATTOPADHYAY  
Associate Professor  
M.Sc., Ph.D.  
Dept. of Biomedical Laboratory Science & Management  
Vidyasagar University  
Midnapore

## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting :

06/06/24

2. Name of the candidate :

ANGSHITA GHOSH

3. Departments :

Bio-Medical Laboratory Science & Management

4. Name of the Supervisor (s) :

Dr. Sandip Chattopadhyay

5. Title of the Ph.D thesis :

Therapeutic potential of Asparagus racemosus roots in the management of Polycystic ovarian syndrome (PCOS) in albino rat.

6. Funding agency of this project (if any) :

Savitribai Jyotirao Phule  
Single Girl Child Fellowship.

7. Ph.D registration number and date :

669 / Ph.D. / Science. 17.03.22

8. Progress from : 17.09.2022 to 16.03.2023

9. Comments :

work is going on as per design.

06/06/24  
Dean (Acad)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Signature

Name of the external member of RAC

Signature

Name of the external member of RAC

Signature

HOD/Secretary of Ph.D committee

Signature

Supervisor

Prof. Debilias Ghosh  
M.Sc., M.Phil., Ph.D., F.A.S.S.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

DR. SANDIP CHATTOPADHYAY  
Associate Professor  
M.Sc., Ph.D.  
Dept. of Biomedical Laboratory Science & Management  
Vidyasagar University  
Midnapore

(2)

## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 6/6/2024
2. Name of the candidate : Sajani Singhonay
3. Departments : BMLSM
4. Name of the Supervisor (s) : Prof. Debidas Ghosh
5. Title of the Ph.D thesis :  
Antidiabetic and anti-oxidative effects of Bauhinia acuminata  
bark extract in streptozotocin induced albino diabetic rat :  
A Preclinical study.
6. Funding agency of this project (if any) : UGC
7. Ph.D registration number and date : 734 / Ph.D (Sc), 17/03/2022
8. Progress from : 17/09/2022 to 16/03/2023
9. Comments : work is progressed satisfactorily

Dean (Acting)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Signature   
Name of the external member of RAC

06/06/24

Signature

HOD/Secretary of Ph.D committee

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.FA.Sc.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

6/6/2024  
Prof. Arun K Chandra

Signature  
Name of the external member of RAC

Signature

Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.FA.Sc.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102


## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**


1. Date of RAC meeting : 06.06.2024
2. Name of the candidate : Shibani Das
3. Departments : Bio-Medical Laboratory Science and Management
4. Name of the Supervisor (s) : Prof. Debidas Ghosh.
5. Title of the Ph.D thesis : Antidiabetic and antioxidative efficacy of aerial parts of *Commelina benghalensis* Linn. (Commelinaceae) in Streptozotocin induced male albino rat
6. Funding agency of this project (if any) : UGC
7. Ph.D registration number and date : 767/Ph.D (sc.) dated . 17.03.2022
8. Progress from : 17.09.2022 to 16.03.2023
9. Comments : work is going on as per design.

  
6/6/24  
Dean (Acad.)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Signature   
Name of the external member of RAC  
06/06/24

 6/6/2024  
Prof. Manoj K. Chandra

Signature   
HOD/Secretary of Ph.D committee

Signature   
Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D, F.A.Sc.T  
Professor & Head  
Dept. Of Bio-Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D, F.A.Sc.T  
Professor & Head  
Dept. Of Bio-Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102



## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 6/6/2024
2. Name of the candidate : TANUSREE MONDAL
3. Departments : BIO-MEDICAL LABORATORY SCIENCE AND MANAGEMENT
4. Name of the Supervisor (s) : PROF. DEBIDAS GHOSH
5. Title of the Ph.D thesis : Pre-clinical study on hypo-testicular activity assessment of seed of *Luffa acutangula* in albino rat.
6. Funding agency of this project (if any) : UGC-NFSC-FELLOW
7. Ph.D registration number and date : 673/Ph.D.(Sc.) DATE - 17.03.2022
8. Progress from : 17.09.2022 to 16.03.2023
9. Comments : work is satisfactory

*[Signature]*  
Dean (Acad.)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Signature *[Signature]*  
Name of the external member of RAC  
06/06/24

Ambar 6/6/2024

(Prof. Ambar & Chandan)  
Signature  
Name of the external member of RAC

Signature *[Signature]*  
HOD/Secretary of Ph.D committee

Signature *[Signature]*  
Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore

Report of RAC Meeting  
**Vidyasagar University, Midnapore - 721102**

1. Date of RAC meeting: 18.04.2024
2. Name of the candidate: Sukriti Hazra
3. Departments: Bio-Medical Laboratory Science & Management
4. Name of the Supervisor(s): Prof. Debidas Ghosh
5. Title of the Ph.D thesis: "Assessment of hypo-testicular activity of Seed of *Ureca lutea* (Linn.) in albino rat; An approach through gametogenic and Steroidogenic activities"
6. Funding agency of this project (if any): Swami Vivekananda merit cum Means Scholarship.
7. Ph.D registration number and date:
8. Progress from: 27.06.2022 to: 26.12.2022

9. Comments:

Improvement needed

Dilip Mukherjee. (Online)

(Dr. K. MUKHERJEE)

Chandra  
23/1/24 (Online)

(A. CHANDRA)

Signature

Name of the external member of RAC

Signature

Name of the external member of RAC

Signature

HOD/Secretary of Ph.D committee

Signature

Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 18.04.2024
2. Name of the candidate : Sukriti Hazra
3. Departments : Bio Medical Laboratory Science & Management
4. Name of the Supervisor(s) : Prof Debidas Ghosh
5. Title of the Ph.D thesis : "Assessment of hypo-testicular activity of seed of *Arceuthobium (Linn)* in albino rat : An approach through gametogenic and steroidogenic activities"
6. Funding agency of this project (if any) : Swami Vivekananda merit cum Means Scholarship
7. Ph.D registration number and date :
8. Progress from : 27.12.2022 to 26.06.2023

9. Comments :

Improvement needed

Dilip Mukherjee, (Online)

(D. K. MUKHERJEE)

Signature

Name of the external member of RAC

Chandra

23/4/24 (Online)

(A. CHANDRA)

Signature

Name of the external member of RAC

Signature

HOD/Secretary of Ph.D committee

Signature

Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102



## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 18.04.2024
2. Name of the candidate : PAMPA LOHAR
3. Departments : Bio-medical Laboratory science and Management
4. Name of the Supervisor (s) : Prof. Debidas Ghosh
5. Title of the Ph.D thesis : Anti-testicular activity assessment of leaves of *Caesalpinia pulcherrima* in albino rat.
6. Funding agency of this project (if any) : UGC CNFSC fellow
7. Ph.D registration number and date : 704/Ph.D(sc), 17.03.2022
8. Progress from : 17.03.2023 to 16.09.2023
9. Comments : improve needed

Signature  
Name of the external member of RAC

Signature  
Name of the external member of RAC

Signature  
HOD/Secretary of Ph.D committee

Signature  
Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University Midnapore - 721102

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University Midnapore - 721102

**Report of RAC Meeting**  
**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting: 18.4.2024
2. Name of the candidate: PAMPA LOHAR
3. Departments: Bio-medical Laboratory Science and Management
4. Name of the Supervisor (s): Prof. Debidas Ghosh
5. Title of the Ph.D thesis: Anti-testicular activity assessment of leaves of *Caesalpinia pulcherrima* in albino rat.
6. Funding agency of this project (if any): VGC (NFSC Fellow)
7. Ph.D registration number and date: 704/Ph.D(Sc), 17.03.2022
8. Progress from: 17.09.2022 to 18.03.2023
9. Comments: Improvement needed

Dilip Mukherjee. (Online)

(D.K. MUKHERJEE)

Signature  
Name of the external member of RAC

Chandra  
23/4/24 (Online)

(A. CHANDRA)

Signature  
Name of the external member of RAC

Signature  
HOD/Secretary of Ph.D committee

Signature  
Supervisor

Dean (Acad)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. of Bio-Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. of Bio-Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 18/04/2024
2. Name of the candidate : Dibya Pal
3. Departments : Bio-Medical Laboratory Science and Management
4. Name of the Supervisor(s) : Prof. Debidas Ghosh
5. Title of the Ph.D thesis : Management of Carbohydrate Metabolism and hypotesticular status by Abhever (L) (Ghritkumar) In streptozotocin induced diabetic albino rat: An approach through molecular transection study.
6. Funding agency of this project (if any) : DST INSPIRE (GOI)
7. Ph.D registration number and date : 243/Ph.D.(Sc), 27.12.2020
8. Progress from : ~~01-09-2023~~ 30/6/23 - 29.12.23 to 01-12-2023
9. Comments : Satisfactory progress.

Dilip Mukherjee. (Online)

(D. K. MUKHERJEE)

Signature  
Name of the external member of RAC

Chandra  
23/4/24 (Online)

(A. CHANDRA)

Signature  
Name of the external member of RAC

Signature  
HOD/Secretary of Ph.D committee

Signature  
Supervisor

18/4/24  
Dean (Acad)  
Faculty of Science  
Vidyasagar University

Prof. Debidas Ghosh  
M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Bio-Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102



**Report of RAC Meeting**  
**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 18/04/2024
2. Name of the candidate : Dibya Pal
3. Departments : Bio – Medical Laboratory Science and Management
4. Name of the Supervisor (s) : Prof. Debidas Ghosh
5. Title of the Ph.D thesis : Management of carbohydrate metabolism and hypofesticular status by Allovera (L.) (Ghritkumar) in streptozotocin induced diabetic albino rat : An approach through molecular transection study.
6. Funding agency of this project (if any) : DST INSPIRE (A01)
7. Ph.D registration number and date : 243 / Ph.D.(Sc), 27.12.2020
8. Progress from : 30/12/2022 to 29/06/2023 *[Signature]*
9. Comments : Progress satisfactory.

*[Signature]*  
18/4/24  
Dean  
Dilip Mukherjee  
(D.K. MUKHERJEE)  
Signature  
Name of the external member of RAC

*[Signature]*  
23/4/24  
(A. CHANDRA)  
Signature  
Name of the external member of RAC

*[Signature]*  
HOD/Secretary of Ph.D committee

*[Signature]*  
Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

## Report of RAC Meeting

Vidyasagar University, Midnapore – 721102

1. Date of RAC meeting : 18.04.2024
2. Name of the candidate : Sova Dey
3. Departments : Bio-Medical Laboratory Science and Management
4. Name of the Supervisor(s) : Prof. Debidas Ghosh
5. Title of the Ph.D thesis :  
Anti-diabetic and antioxidative -efficacies of  
the root tuber of *Ipomoea mauritiana* in  
streptozotocin induced diabetic male albino rat
6. Funding agency of this project (if any) : UGC (NET)
7. Ph.D registration number and date : 11.05.2023 (1018/ Ph.D.(M/SpM/Se) 12.06.23)
8. Progress from : 11/05/2023 to 10/11/2023
9. Comments : Paper PERT.

18/11/24  
Dean (Acad)

Dean (Acad)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Signature

Name of the external member of RAC

M. K. CHAKRABORTY

Signature

Name of the external member of RAC

Chandra

23/11/24 (Online)

(AMAR K. CHANDRA)

Signature

HOD/Secretary of Ph.D committee

18/11/24

Signature

Supervisor

18/11/24

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Report of RAC Meeting

Vidyasagar University, Midnapore - 721102

1. Date of RAC meeting : 18.04.2024
2. Name of the candidate : Sova Dey
3. Departments : Bio-Medical Laboratory Science and Management
4. Name of the Supervisor (s) : Prof. Debidas Ghosh
5. Title of the Ph.D thesis :  
Anti-diabetic and anti-oxidative efficacies of  
the root-tuber of *Ipomoea mauritiana* in  
streptozotocin-induced diabetic male albino rat
6. Funding agency of this project (if any) : UGC (NET)
7. Ph.D registration number and date : 11.05.2023 (1018/Ph.D.(Net/Edm/Sec.) 12.06.2
8. Progress from : 11/11/23 to 13/05/2024 10/4/23
9. Comments : work is as per PERT

Dilip Mukherjee. (Online)

(D.K. MUKHERJEE)

Signature

Name of the external member of RAC

Signature

Name of the external member of RAC

Signature

HOD/Secretary of Ph.D committee

Signature

Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T.  
Professor & Head

Science & Management  
Vidyasagar University, Midnapore - 721102

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102



**Report of RAC Meeting**  
**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 18/04/2024
2. Name of the candidate : Moumita Dutta
3. Departments : Bio - Medical Laboratory Science and Management
4. Name of the Supervisor(s) : Prof. Debidas Ghosh
5. Title of the Ph.D thesis : Kanyashree prakalpa and its impact on knowledge, attitude and practices on adolescence girl students in Jangalmahal, West Bengal.
6. Funding agency of this project (if any) : NA
7. Ph.D registration number and date : 244/Ph.D.(Sc), 27.12.2022
8. Progress from : 30/12/2022 to 29/6/2023
9. Comments : work on per standard level. directed to improve further

*18/4/24*  
*Dean (Acad)*  
*Vidyasagar University*

Signature  
Name of the external member of RAC

*Dilip Mukherjee. (Online)*  
*(D.K. MUKHERJEE)*

Signature  
Name of the external member of RAC

*Amul*  
*23/4/24 (Online)*  
*(A. CHANDRA)*

Signature  
HOD/Secretary of Ph.D committee

*18/4/24*  
Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Signature  
Supervisor

*18/4/24*  
Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

**Report of RAC Meeting**  
**Vidyasagar University, Midnapore - 721102**

1. Date of RAC meeting: 18/04/2024
2. Name of the candidate: Moumita Dutta
3. Departments: Bio-Medical Laboratory Science and Management
4. Name of the Supervisor(s): Prof. Debidas Ghosh
5. Title of the Ph.D thesis: Kanyashree prakalpa and its impact on knowledge, attitude and practices on adolescence girl students in Jangalmahal, West Bengal.
6. Funding agency of this project (if any): NA
7. Ph.D registration number and date: 244/Ph.D. (Sc.), 27.12.2022
8. Progress from: 30/06/2022 to 29/12/2022
9. Comments: Directed to improve answer

Drip Mukherjee. (Online)

(D.K. MUKHERJEE)

Gurukul

23/4/24

(Online)

(AMAR. K. CHANDRA)

Signature

Name of the external member of RAC

Signature

Name of the external member of RAC

Signature

HOD/Secretary of Ph.D committee

Signature

Supervisor

Debidas Ghosh  
Ph.D., Ph.D.F.A.Sc.T  
Professor & Head  
Bio Medical Laboratory  
Science & Management

Vidyasagar University, Midnapore - 721102

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102



Report of RAC Meeting  
**Vidyasagar University, Midnapore - 721102**

1. Date of RAC meeting: 18.04.2024
2. Name of the candidate: Poorag Ranjita Bora.
3. Departments: Bio-medical Laboratory Science and Management
4. Name of the Supervisor (s): Dr. Chhanda Mallick
5. Title of the Ph.D thesis: Effect of lycopene on chlorpyrifos induced metabolic and reproductive toxicity in male albino rat.
6. Funding agency of this project (if any): SPMCM
7. Ph.D registration number and date: 695/Ph.D. Scg 17-03-2022
8. Progress From: 17/09/2022 - 16/03/2023
9. Comments: Work is in progress.

Dilip Mukherjee. (Online)

Chhanda  
23/4/24 (Online)

Signature  
Name of the external member of RAC

Signature  
Name of the external member of RAC

*18/4/24*  
*Dean (Acad)*  
*Vidyasagar University*

Signature  
HOD/Secretary of Ph.D committee

*18/04/2024*  
Signature  
Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

CHHANDA MALLICK, M.Sc., B.L.  
Assistant Professor  
Clinical Nutrition & Dietetics  
Dept. of Biomedical Laboratory Science  
& Management, Vidyasagar University, MIDNAPORE.

## Report of RAC Meeting

Vidyasagar University, Midnapore – 721102

1. Date of RAC meeting: 18.04.2024
2. Name of the candidate: Parag Ranyita Bora.
3. Departments: Bio-Medical Laboratory Science and Management
4. Name of the Supervisor (s): Dr. Chhanda Mallik
5. Title of the Ph.D thesis: Effect of lycopene on chlorpyrifos induced metabolic and reproductive toxicity in male albino rat
6. Funding agency of this project (if any): SVMCM
7. Ph.D registration number and date: 695/Ph.D.Sc; 17.03.2022
8. Progress From: 17/03/2023 – 16/09/2023
9. Comments: Work is in progress

Dilip Mukherjee. (Online)

Signature  
Name of the external member of RAC

Signature  
Name of the external member of RAC

Signature  
HOD/Secretary of Ph.D committee

Signature  
Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Dr. Chhanda Mallik, M.Sc., M.T.  
Assistant Professor  
Clinical Nutrition & Dietetics  
Dept. of Biomedical Laboratory Science  
& Management, Vidyasagar University, Midnapore

## Report of RAC Meeting

**Vidyasagar University, Midnapore - 721102**

1. Date of RAC meeting: 18/04/2024
2. Name of the candidate: Prabir Mondal
3. Departments: Bio - medical Laboratory Science and Management
4. Name of the Supervisor (s): Dr. Chhanda Mallick
5. Title of the Ph.D thesis: Contraceptive efficacy of Thivetia peruviana leaves in male rat.
6. Funding agency of this project (if any): Swami Vivekananda merit cum Scholarship
7. Ph.D registration number and date: 247/Ph.D. (Sc.) Date - 27/12/2020
8. Progress From: 27/06/2022 to 26/12/2022
9. Comments: Work is going on satisfactorily

Dilip Mukherjee, (online)

(D.K. MUKHERJEE)

Amarchandra

23/4/24

(online)

Signature

Name of the external member of RAC

Signature

Name of the external member of RAC

Signature

HOD/Secretary of Ph.D committee

Signature

Supervisor

Dr. Debidas Ghosh  
M.Sc., M.Phil., Ph.D., F.A.Sc.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Assistant Professor  
Cellulose & Paper Technology  
Vidyasagar University  
Midnapore - 721102



## Report of RAC Meeting

Vidyasagar University, Midnapore - 721102

1. Date of RAC meeting: 18/04/2024
2. Name of the candidate: Prabir Mondal.
3. Departments: Bio-medical Laboratory Science and management
4. Name of the Supervisor (s): Dr. Chanda mallick
5. Title of the Ph.D thesis: Contraceptive efficacy of Thoretia peruviana leaves in male rats.
6. Funding agency of this project (if any): Swami vivekananda meritum scholarship
7. Ph.D registration number and date: 247/Ph.D.(Sci.) Date-27/12/2020
8. Progress From: 27/12/2022 to 26/06/2023
9. Comments: Work is going on satisfactorily

Dilip Mukherjee. (online)

Chanda  
23/4/24

(online)

Signature

(D. K. MUKHERJEE)

Name of the external member of RAC

Signature

(AMAR CHANDRA)

Name of the external member of RAC

Signature

18/4/24

HOD/Secretary of Ph.D committee

Signature

18/04/2024

Supervisor

Dean (Acad.)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D/B.A.Sc.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Assistant Professor  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University

**Report of RAC Meeting**  
**Vidyasagar University, Midnapore - 721102**

1. Date of RAC meeting: 18-04-2024
2. Name of the candidate: TARUN KUMAR KAR
3. Departments: Bio. medical Laboratory Science & Management.
4. Name of the Supervisor(s): Dr. Sandip Chattopadhyay.
5. Title of the Ph.D thesis: Ameliorative effect of vitex negundo seed oil Polycystic ovarian syndrome (PCOS) in albino rat.
6. Funding agency of this project (if any): UGC
7. Ph.D registration number and date: 672/Ph.D/Science, 17/3/2022
8. Progress from: 15/3/2023 to 15/09/2023
9. Comments: Satisfactory performance. 75% of work have been done during the said period. Recently published one paper in a standard reputed journal.

Dr. Dip Mukherjee. (Online)  
(DIP. MUKHERJEE)

Amr  
23/4/24 (Online)  
(AMAR CHANDRA)

Signature  
Name of the external member of RAC

Signature  
Name of the external member of RAC

Signature  
HOD/Secretary of Ph.D committee

Signature  
Supervisor

18/04/24  
DR. SANDIP CHATTOPADHYAY  
Associate Professor  
M.Sc. Ph.D  
Dept. of Biomedical Laboratory Science & Management  
Vidyasagar University  
Midnapore

Prof. Dr. Shash  
M.Sc. M.Phil. Ph.D. F.A.Sc.T  
Professor & Head  
Dept. of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Report of RAC Meeting  
**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting: 18-04-2024
2. Name of the candidate: TARUN KUMAR KAR
3. Departments: Bio. Medical Laboratory Science & Management.
4. Name of the Supervisor(s): Dr. Sandip Chattopadhyay.
5. Title of the Ph.D thesis: Ameliorative effect of vitex negundo seed of Polycystic ovarian syndrome (PCOS) in albino rat.
6. Funding agency of this project (if any): UGC.
7. Ph.D registration number and date: 672/Ph.D/Science, 17/3/2022
8. Progress from: 16.09.2022 to 15.03.2023.....
9. Comments: Satisfactory performance. 50% of work have been completed during this period.

  
(M. K. CHAKRABORTY)

Signature  
Name of the external member of RAC

Signature  
Name of the external member of RAC


(AMAR CHANDRA)

Signature

HOD/Secretary of Ph.D committee

✓ Signature

Supervisor

  
18/04/24  
DR. SANDIP CHATTOPADHYAY  
Assoc. to Professor  
M.Sc. Ph.D  
Dept. of Biomedical Laboratory Science & Management  
Vidyasagar University  
Midnapore

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University Midnapore - 72

  
18/04/24  
Dean  
Vidyasagar University



**Report of RAC Meeting**  
**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 18. 04. 2024
2. Name of the candidate : Shilpa Hajri
3. Departments : BMLSM
4. Name of the Supervisor (s) : Dr. Sandip Chattopadhyay
5. Title of the Ph.D thesis : Therapeutic efficacy of Syzygium cumene seed against high carbohydrate high fat diet (HCHF) induced obesity in female wistar rat.
6. Funding agency of this project (if any) :
7. Ph.D registration number and date : 249/phd(sc). 27. 12. 2020
8. Progress from : 27. 12. 2022 to 26. 06. 2023
9. Comments : She is extremely sincere. Almost absent in the lab since one year. Several times she wanted join this insincerity but no rectification till date. She is yet to publish any paper till date on her work.

Dilip Mukherjee, (Online)  
(D.K. MUKHERJEE)

Amar Chandra, (Online)  
23/4/24 (AMAR CHANDRA)

Signature  
Name of the external member of RAC

Signature  
Name of the external member of RAC

Signature  
HOD/Secretary of Ph.D committee

Signature  
Supervisor

DR. SANDIP CHATTOPADHYAY  
Associate Professor  
M.Sc. Ph.D  
Dept. of Biomedical Laboratory Science & Management  
Vidyasagar University  
Midnapore

Prof. Debidas Ghosh  
M.Sc. Ph.D, Ph.D. Sc.T  
Professor & Head  
Biomedical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Dean (Acad.)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

18/4/24  
Dean BSC

Report of RAC Meeting

Vidyasagar University, Midnapore - 721102

1. Date of RAC meeting: 18.04.2024
2. Name of the candidate: Shilpa Maji
3. Departments: BMLSM
4. Name of the Supervisor(s): Dr. Sandip Chattopadhyay
5. Title of the Ph.D thesis: "Therapeutic efficacy of Syzygium cumene seed against high carbohydrate high fat diet (HCHF) induced obesity in female wistar rat".
6. Funding agency of this project (if any):
7. Ph.D registration number and date: 249/ph.D(SA), 27.12.2020
8. Progress from: 27.6.2022 to 26.12.2022
9. Comments: She is very incinerate and yet to publish any paper on her own topic.

Dr. Dip Mukherjee (Online)  
(D. K. MUKHERJEE)

Chandra (Online)  
23/4/24 (A. CHANDRA)

Signature  
Name of the external member of RAC

Signature  
Name of the external member of RAC

Signature  
HOD/Secretary of Ph.D committee

Signature  
Supervisor

Debidas Ghosh  
Ph.D, Ph.D, F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

DR. SANDIP CHATTOPADHYAY  
Associate Professor  
M.Sc, Ph.D  
Dept. of Biomedical Laboratory Science & Management  
Vidyasagar University  
Midnapore

Dean (Acad.)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

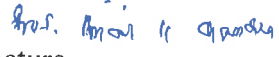


## Report of RAC Meeting

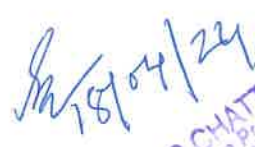
**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 18.04.24
2. Name of the candidate : Ananya Banman
3. Departments : Bio-medical Laboratory Science & Management
4. Name of the Supervisor (s) : Dr. Sandip Chattopadhyay
5. Title of the Ph.D thesis : "Assessment of the beneficial role of Wheatgrass (*Triticum aestivum* L.) on Bisphenol-A induced repro-toxicity in female Wistar rats".
6. Funding agency of this project (if any) :
- ✓ 7. Ph.D registration number and date : 248/Ph.D.(Sc.), 27.12.2020
8. Progress from : 30.06.2022 to 29.02.2022 (29.6.22 to 29.12.22)
9. Comments :  
The work is going on as per programme. 18/4/22

Signature   
Name of the external member of RAC

Signature   
Name of the external member of RAC

Signature   
HOD/Secretary of Ph.D committee

Signature   
Supervisor

Prof. Debidas Ghosh  
M.Sc., M.Phil., Ph.D., F.A.Sc.T  
Professor & Head  
Dept. of Bio Medical Laboratory  
Science & Management


DR. SANDIP CHATTOPADHYAY  
Associate Professor  
M.Sc., Ph.D.  
Dept. of Biomedical Laboratory Science & Management  
Vidyasagar University  
Midnapore

## Report of RAC Meeting

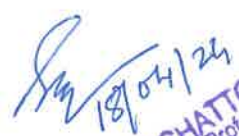
**Vidyasagar University, Midnapore – 721102**

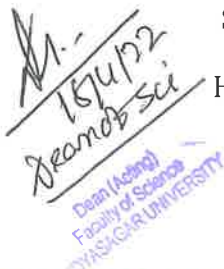
1. Date of RAC meeting : 18.04.2024
2. Name of the candidate : Ananya Barman
3. Departments : Bio-medical laboratory Science & Management-
4. Name of the Supervisor (s) : Dr. Sandip Chattopadhyay
5. Title of the Ph.D thesis : "Assessment of the beneficial role of wheatgrass (*Triticum aestivum* L.) on Bisphenol-A induced repro-toxicity in female Wistar rats",
6. Funding agency of this project (if any) :
- ✓ 7. Ph.D registration number and date : 248/Ph.D.(sc.), 27.12.2020
8. Progress from ~~29.02.2021~~ to ~~29.08.2022~~ 29.12.21 to 28.6.22
9. Comments :  
The work is going on as per PERI 18/4/24

Signature   
Name of the external member of RAC  
18/04/24

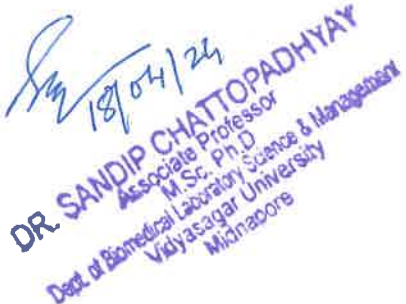
Signature   
Name of the external member of RAC  
18/4/24

Signature   
HOD/Secretary of Ph.D committee

Signature   
Supervisor

  
Dean (Acad.)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Midnapore University, Midnapore - 721102

  
DR. SANDIP CHATTOPADHYAY  
Associate Professor  
M.Sc. Ph.D  
Dept. of Biomedical Laboratory Science & Management  
Vidyasagar University  
Midnapore

(3)

## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 06.06.2024
2. Name of the candidate : Shibani Das
3. Departments : Bio-Medical Laboratory Science and Management
4. Name of the Supervisor (s) : Prof. Debidas Ghosh
5. Title of the Ph.D thesis : Antidiabetic and antioxidative efficacy of serial parts of Commelina benghalensis Linn. (Commelinaceae) in Streptozotocin induced male albinorats
6. Funding agency of this project (if any) : UGC
7. Ph.D registration number and date : 767 / Ph.D (Sc.) dated 17.03.2022
8. Progress from : 17.03.23 to 16.09.23
9. Comments : Work is going on satisfactory.

*Shibani Das*  
Dean (Acad.)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Signature *M. Chakrabarti*  
Name of the external member of RAC

06/06/24

Signature *[Signature]*  
HOD/Secretary of Ph.D committee

Prof. Debidas Ghosh  
M.Sc., M.Phil., Ph.D., F.A.Sc.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Chandray 6/6/2024  
(Prof. Arun K. Chandray)

Signature  
Name of the external member of RAC

Signature  
Supervisor

Prof. Debidas Ghosh  
M.Sc., M.Phil., Ph.D., F.A.Sc.T.  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

3

## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 6/6/2024
2. Name of the candidate : TANUSREE MONDAL
3. Departments : BIO-MEDICAL LABORATORY SCIENCE AND MANAGEMENT
4. Name of the Supervisor (s) : PROF. DEBIDAS GHOSH
5. Title of the Ph.D thesis : Pre-clinical study on hypo-testicular activity assessment of seed of *Luffa acutangula* in albino rat.
6. Funding agency of this project (if any) : UGC - NFSC - FELLOW
7. Ph.D registration number and date : 673/Ph.D. (Sc.) DATE - 17.03.2022
8. Progress from : 17.03.2023 to 16.09.2023
9. Comments : work is going as per PERT chart.

*[Signature]*  
6/6/24  
Dean (Acad.)  
Faculty of Science  
VIDYASAGAR UNIVERSITY

Signature *[Signature]*  
Name of the external member of RAC  
06/06/24

*[Signature]* 6/6/2024  
C Prof. Arun Kumar Chandra  
Signature  
Name of the external member of RAC

Signature *[Signature]*  
HOD/Secretary of Ph.D committee

Signature *[Signature]*  
Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102




3

## Report of RAC Meeting

**Vidyasagar University, Midnapore – 721102**

1. Date of RAC meeting : 6/6/2024
2. Name of the candidate : Sajani Singharay
3. Departments : BM LSM
4. Name of the Supervisor (s) : Prof. Debidas Ghosh
5. Title of the Ph.D thesis :  
Anti-diabetic and anti-oxidative effects of Bauhinia acuminata  
bark extract in streptozotocin induced albino diabetic rat :  
A preclinical study.
6. Funding agency of this project (if any) : UGC
7. Ph.D registration number and date : 734 / Ph.D (Sc) , 17/03/2022
8. Progress from : 17/03/2023 to 16/09/2023
9. Comments : Progress of the work as per design given  
in Pre-registration Ph.D. Synopsis.

6/6/24  
Dean (Acting)  
Faculty of Science  
VIDYASAGAR UNIVERSITY


Signature   
Name of the external member of RAC  
06/06/24

Signature   
HOD/Secretary of Ph.D committee

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

6/6/2024  
Prof. Debidas Ghosh

Signature  
Name of the external member of RAC

Signature   
Supervisor

Prof. Debidas Ghosh  
M.Sc.M.Phil, Ph.D.F.A.Sc.T  
Professor & Head  
Dept. Of Bio Medical Laboratory  
Science & Management  
Vidyasagar University, Midnapore - 721102

**VIDYASAGAR UNIVERSITY  
MIDNAPORE**

**Department of English Literature, Language and Cultural Studies**

**Report of the meeting of the Research Advisory Committee**

1. Name of the Candidate: **Souparna Roy**
2. Name of the Department: **Department of English Literature, Language and Cultural Studies**
3. Title of the Thesis: **“Representation of Human Rights Violation and Problematics of Identity Formation in Select Indian DNT (Denotified and Nomadic Tribes) Autobiographies”**

4. Registration No. with date and year: **1087, 23.08.2023**
5. Name of the supervisor : **Dr.Debdas Roy**
6. Date of meeting of R.A.C.: **24.06.2024**
7. **Progress of Research Work:**

The synopsis including chapterisation, literature review, research methodology etc as parts of the introductory chapter, and the entire chapter-II entitled “On the Genre of Life Writing: Indigenous Autobiography as Claim/Witness Narratives” of the dissertation have been presented before the Research Advisory Committee by the candidate.

**8. Comments of the members of R.A.C.:**

- i. Professor S. P. Singha opined that the grounds for considering the DNT as Dalit has to be clearly and logically stated in the introductory chapter while keeping in mind how the victimisation of the DNT are distinct from that of the Dalits and other tribal communities. Other than the argument of Sharan Kumar Limbale for considering the DNT as Dalits, the idea of ‘Scheduled Tribe Dalit’ (STD) as presented by Stephen Christopher in his article “‘Scheduled Tribe Dalit’ and the Recognition of Tribal Casteism” may also be used vis-a-vis the process of Dalitisation as an ongoing phenomenon with its mechanism of the politics of exclusion and victimisation which is subtler than the conventional

notion of a Dalit in terms of an ontological status for substantiating and establishing the point.

- ii. Since all the DNT writers selected for the present study are from the state of Maharashtra, the candidate was advised by Professor S. P. Singha to find out (if possible) any other authentic DNT autobiography from any other state of India, for the sake of comparative and comprehensive understanding of the DNT problems across the country. In this connection the candidate was advised to refer to *Smriti Lekha*, the autobiography of Prahlad Kumar Bhakta who himself is a Lodha, an erstwhile criminal tribe in West Bengal.
- iii. Both Professor Indranil Acharya and Professor S. P. Singha commented that the literature review should be better, furnished with the inclusion of greater number of books on the tribal studies in general and the DNTs in particular which would be quite relevant for the present research.
- iv. Professor S. P. Singha said that the concept of 'autobiografiction' could be used in chapter-II while discussing the blurring of the line of demarcation between facticity and fictionality of events presented in a life narrative.
- v. Professor Indranil Acharya advised that the candidate should also highlight how the very act of writing autobiography is itself an act of assertion and identity formation in the context of the indigenous autobiographies. In this context cross reference to black autobiography (e.g. that of Frederick Douglass) and aboriginal testimonio should be made to highlight the global dimension of the local narratives of resistance and identity formation by the indigenous people.
- vi. Professor S. P. Singha and Professor Indranil Acharya among others advised that the researcher should connect the DNT autobiography with the aboriginal testimonial writings, referring to John Beverly's definition of a testimonio.

9. **Specific suggestions, if any:**

- i. Clear and logically supported statement in the Introduction regarding the fact that the scholar is using the idea of the DNT interchangeably with that of the Dalit, and is considering the DNTs as the Dalits.
- ii. Inclusion of DNT autobiography from any state of India other than Maharashtra (the state from which all the authors have been chosen) for the sake of comparative and comprehensive study.
- iii. Referring to and dwelling upon *Smriti Lekha*, the autobiography of Prahlad Kumar Bhakta in the thesis.
- iv. Improving the literature review part.
- v. Inclusion of concept of 'autobiografiction' in chapter-II.
- vi. Focusing more on how the very act of writing autobiography is itself an act of assertion and identity formation in the context of the indigenous autobiographies and referring to the black autobiographies in the global context.
- vii. Connecting the DNT autobiography with the aboriginal testimonial writings, referring to John Beverly's definition of a testimonio.

10.

**Remarks:**

The researcher shall incorporate the suggestions mentioned above before duly submitting the second chapter to his supervisor, and may start writing the next part/chapter of the thesis.

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D. Committee:



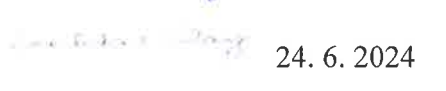
Signature of the External Expert:

 24/06/2024

Signature of the Member:

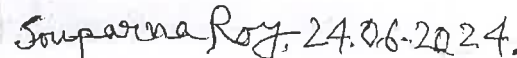
 24/06/2024

Signature of the Supervisor:

 24.6.2024 Sebdas Roy 24.06.2024

**Documents Required for Submission with R.A.C. Report:**

1. Official notification: **Virtual mail notification for RAC meet by the HOD, Dept. of English, Vidyasagar, and the Secretary of the Research Advisory Committee, Dept. of English, Vidyasagar on 19. 06. 2023 at 5. 07 p.m.**

2. Attendance of the candidate:  24.06.2024.

(The candidate duly joined the RAC meeting in time, and was responsive throughout the session.)

3. Relevant document (Research paper / patent / Publications, if any):

**Publication on the research area:** "Sexual Politics in Select DNT Autobiographies: A Study"

authored jointly by Prof. Indranil Acharya and Souparna Roy and published in *Contemporary Voice of Dalit* (Sage Journal, Scopus) on

29.05.2024. <https://doi.org/10.1177/2455328X241253640>

**Other publications:**



Department of English Literature, Language and Cultural Studies

Report of the meeting of the Research Advisory Committee

1. Name of the Candidate: **Soham Sircar**
2. Name of the Department: **Department of English Literature, Language and Cultural Studies**
3. Title of the Thesis:
  - i) Title as per the Regd. Papers: "Quest for Structure and Meaning in the Labyrinth of Language: A Study of Select Works of James Joyce"
  - ii) Revised title suggested by the experts: **"Language in Select Works of James Joyce: Modernism and Beyond"**
4. Registration No. with date and year: **1086/Ph.D. w.e.f. 23.08.2023**
5. Name of the supervisor: **Dr. Debdas Roy**
6. Date of meeting of R.A.C.: **27<sup>th</sup> June, 2024**
7. **Progress of Research Work(with specific date / tenure):**
  - i) Over the past one year from the date of registration w.e.f. 23.08.2023, the scholar has conducted exhaustive literature review on the relevant works which discuss the formal and linguistic aspects in the works of Joyce.
  - ii) He has also tentatively finished writing the draft of the chapter entitled, "Mazes and Meanings: Perspectives on the Operation of Language in Literature vis a vis James Joyce". As per the suggestions of the experts and in view of the suggested title of the proposal as mentioned above, the phrasing of the title of the second chapter may be changed from "Mazes and Meanings: Perspectives on the Operation of Language in Literature vis a vis James Joyce" to "Problematics of Language in Modern and Postmodern Literature with special reference to Joyce" or any other title that suits the scholar's research pursuit. This chapter will comprise the second chapter of the dissertation following the introductory chapter which will be drafted later. He submitted the second chapter to the concerned supervisor, Dr. Debdas Roy for further insights, and then the chapter was duly presented before the Research Advisory Committee along with the initial part of the research proposal.
8. **Comments of the members of R.A.C.:**

The External expert, Prof. Niladri Ranjan Chatterjee, Professor & Head, Dept. of English, Kalyani University made some valuable comments, and suggested the following points –

  - The need to critically distinguish between Modernism and the literary and critical tendencies that follow thereafter.
  - The need to critically distinguish between Structuralism and Poststructuralism, and for that matter modernism and Postmodernism.

- Identify the proper Modernist elements in Joycean texts and then carefully locating such tendencies in Joyce as tend to look beyond Modernism, if any. Prof. Chatterjee suggested that while looking beyond Modernism, one needs to take special care to respond to such vital points as 'Grand narratives', 'Mass culture' etc which constitute the core concepts of Modernism, and relate those concepts to core concepts of Postmodernism.
- Focusing on the grounds behind studying Joycean language in the light of postmodernism instead of modernism, despite the fact that Joyce is a core modernist writer.

**Professor Joyjit Ghosh**, Professor and Head, Dept. of English Literature, Language and Cultural Studies, Vidyasagar University and the Internal RAC expert/member too agreed on the valuable points made by Prof. Chatterjee.

**Dr Jolij Das**, Associate Professor, Dept. of English Literature, Language and Cultural Studies, Vidyasagar University agreed on the above points and advised the scholar to take into consideration such vital concepts of Postmodern times as the 'cultural logic of late capitalism' while looking beyond Modernism and trying to place Joyce in the context of Postmodernism.

**9. Specific suggestions, if any:**

- i) The External expert, Prof. Niladri Ranjan Chatterjee, suggested that the title of the proposed work should be changed from "Quest for Structure and Meaning in the Labyrinth of Language: A Study of Select Works of James Joyce" to "Language in Select Works of James Joyce: Modernism and Beyond".
- ii) Professor Joyjit Ghosh, Professor and Head, Dept. of English Literature, Language and Cultural Studies, Vidyasagar University and the Internal RAC expert/member suggested that to facilitate research work in future the title should be broad and inclusive. He approved of the new title suggested. He also advised that before the submission of the thesis in future, the scholar should duly apply to the PhD committee for ratifying the revised suggested title that has been suggested. Professor Ghosh also opined that the title may remain open to rephrasing (without changing the central concern of the work) during the ensuing RAC(s).

**10. Remarks:**

The Research Advisory Committee advised the researcher to incorporate the suggestions mentioned hereinabove and duly submit the chapter (chapter II) to the concerned PhD supervisor. He was also advised to go ahead with her research work in consultation with the concerned supervisor.

The suggested title needs to be ratified by the PhD committee in due course of time.

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D. Committee:



Signature of the External Expert:



27.6.2024

Signature of the Member:



Signature of the Supervisor :



27.06.2024

 27-6-2024

**Documents Required for Submission with R.A.C. Report:**

1. Official notification: Virtual mail notification for RAC meet by the HOD, Dept. of English, Vidyasagar, and the Secretary of the Research Advisory Committee, Dept. of English, Vidyasagar on 25. 06. 2023 at 11.30 a.m.

2. Attendance of the candidate:



3. Relevant document (Research paper / patent / Publications, if any)

Department of English Literature, Language and Cultural Studies

Report of the meeting of the Research Advisory Committee

1. Name of the Candidate: **Munmun Pervin**
2. Name of the Department: **Department of English Literature, Language and Cultural Studies**
3. Title of the Thesis: **“Representation of Environmental Crises in Select Contemporary Indian English Fiction”**
4. Registration No. with date and year: **1084, 23.08.2023**
5. Name(s) of the supervisor(s): **Debdas Roy**
6. Date of meeting of R.A.C.: **27.06.2024** (blended mode)

**7. Progress of Research Work:**

Over the past one year from the date of registration w.e.f. 23.08.2023, the scholar has conducted exhaustive literature review on the representation of the environmental crises in the Indian English novels. She has also finished writing the chapter entitled “Contextualising Ecocriticism and Environmental Activism”, which will be the second chapter of her thesis following the Introductory chapter. She submitted this chapter to the concerned supervisor, Dr. Debdas Roy on 06.06.2024 for further insights, and the second chapter was presented before the Research Advisory Committee along with the initial part of the research proposal.

**8. Comments of the members of R.A.C.:**

The External expert, Prof. Niladri Ranjan Chatterjee Professor & Head, Dept. of English, Kalyani University made some valuable comments regarding how to read a text critically while engaging in research work. The reading of a text by a research scholar should be different from that of the general reading community, and should be more critical. Professor Chatterjee also said that in research, in-depth, active and meaningful text reading should be given precedence over theorizing.

The internal member Professor Joyjit Ghosh, Professor & Head, Dept. of English, Vidyasagar University made some valuable comments regarding primary text selection and overall plan of the thesis.

**9. Specific suggestions, if any:**

In response to Professor Joyjit Ghosh's specific suggestions, the Research Advisory Committee agreed that the chapter plan be so restructured as to include Adwaita Mallabharman's *Titas Ekti Nadir Naam* Or Anita Agnihotri's *Mahanadi: The Tale of a River* as one of the primary sources/texts. The scholar was advised to talk with the concerned supervisor for the revised chapter plan. She was also advised to read *Postcolonial Disasters* (2020) by Pallavi Rastogi and the <sup>work</sup> ~~essay~~ "Vulnerable Earth: The Literature of Climate Crisis" (2024) by P.K.Nayar. Ray 27.6.24

**10. Remarks:**

The Research Advisory Committee advised the researcher to incorporate the suggestions mentioned above and duly submit the chapter (chapter II) to her supervisor. She was also advised to go ahead with her research work in consultation with the concerned supervisor.

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D. Committee:



27. 6. 2024

Signature of the External Expert:



Signature of the Member:



Signature of the Supervisor :



27.06. 2024

**Documents Required for Submission with R.A.C. Report:**

**1. Official notification**

Virtual mail notification for RAC meet by the HOD, Dept. of English, Vidyasagar, and the  
Secretary of the Research Advisory Committee, Dept. of English, Vidyasagar on 25. 06.  
2023 at 11.30 a.m.

Munmun Perwin

2. Attendance of the candidate : 27.06.2024

3. Relevant document (Research paper / patent / Publications, if any): **No such publication**

**Department of English Literature, Language and Cultural Studies**

**Report of the meeting of the Research Advisory Committee**

1. Name of the Candidate: **Nandini Saha**
2. Name of the Department: **Department of English Literature, Language and Cultural Studies**
3. Title of the Thesis: **“Analysing the Representation of the Queer in Select Indian English Novels”**
4. Registration No. with date and year: **1092/ Ph.D. (Arts), w.e.f. 23.08.2023**
5. Name of the supervisor : **Dr. Debdas Roy**
6. Date of meeting of R.A.C.: **27.06.2024 (Blended mode)**
7. **Progress of Research Work:**
  - i) Over the past one year from the date of registration w.e.f. 23.08.2023, the scholar has conducted exhaustive literature review on the representation of the queer in Indian English novels.
  - ii) She has also finished writing the chapter entitled “Contextualising the Queer Worldview”, which will be the second chapter of her thesis following the Introductory chapter. She submitted the second chapter to the concerned supervisor, Dr. Debdas Roy for further insights, and then the chapter was duly presented before the Research Advisory Committee along with the initial part of the research proposal.
8. **Comments of the members of R.A.C.:**

The External expert, Prof. Niladri Ranjan Chatterjee, Professor & Head, Dept. of English, Kalyani University made some valuable comments on the definition of the term ‘queer’, which constitutes the core theoretical area of the thesis. He raised some pertinent questions regarding the ramifications of the meaning of the term ‘queer’, which, according to him, denotes ‘politics’ among other things. He also commented on the social/cultural construction of sex and gender. Prof. Chatterjee asked the scholar not to use the ‘third sex’ theory in her thesis as these theories have become outmoded. He also asked the scholar to read the texts more critically than she seemed to have done.

The internal member Dr Jolly Das, Associate Professor, Department of English, Vidyasagar University made some apposite remarks regarding the replacement of a key word in the title, and inclusion of some relevant critical books in the reading list of the scholar.

**9. Specific suggestions, if any:**

i) The external expert, Prof. Niladri Ranjan Chatterjee, suggested that the discussions on the novel entitled *Red Lipstick: The Men in My Life* written by Laxmi Narayan Tripathy should not be included as a separate chapter in her thesis, and advised the scholar to replace it with another novel called *The Truth About Me: A Hijra Life Story* written by A. Revathi, to which all the RAC agreed. However, he suggested that the scholar may refer to Tripathy's novel in her thesis.

ii) The internal member, Dr. Jolly Das advised for replacing the word 'Analysing' in the title ("Analysing the Representation of the Queer in Select Indian English Novels") with 'Reading', to which the external expert, Prof. Niladri Ranjan Chatterjee and other RAC members agreed. The title suggested and agreed upon reads like this – "Reading the Representation of the Queer in Select Indian Novels in English"

Or

"Representation of the Queer in Select Indian Novels in English: A Study".

iii) The internal expert, Dr. Jolly Das also advised the scholar to read other books by the writers whose novels are the primary texts for her study for a better critical insight, and the external expert, Prof. Niladri Ranjan Chatterjee suggested that the scholar should read *Undoing Gender* and *Gender Trouble* by Judith Butler, and *Epistemology of the Closet* by Eve Kosofsky Sedgwick.

**10. Remarks:**

The Research Advisory Committee advised the researcher to incorporate the suggestions mentioned hereinabove and duly submit the chapter (chapter II) to the concerned PhD supervisor. She was also advised to go ahead with her research work in consultation with the concerned supervisor.

The suggested title needs to be ratified by the PhD committee in due course of time.

**Signatures of the Members of R.A.C.**



Signature of the Secretary, Ph.D. Committee:



Signature of the External Expert:



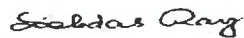
27. 6. 2024

Signature of the Member:



27/06/2024.

Signature(s) of the Supervisor(s):




27.06. 2024

**Documents Required for Submission with R.A.C. Report:**

1. Official notification: **Virtual mail notification for RAC meet by the HOD, Dept. of English, Vidyasagar, and the Secretary of the Research Advisory Committee, Dept. of English, Vidyasagar on 25. 06. 2023 at 11.30 a.m.**

2. Attendance of the candidate:



27/06/2024

**(The candidate duly joined the RAC meeting in time through the Google Meet link shared by the departmental Head, and was present and responsive throughout the session. )**

3. Relevant document (Research paper / patent / Publications, if any): No such publication

**VIDYASAGAR UNIVERSITY  
MIDNAPORE**

**Department of English**

**Report of the meeting of the R.A.C.**

1. Name of the Candidate: ARUP KUMAR MONDAL
2. Name of the Department: ENGLISH
3. Title of the Thesis: REPRESENTATION OF WOMEN IN MARATHI  
DALIT MEN'S WRITINGS IN ENGLISH TRANSLATION
4. Registration No. with date and year: 0030 of 2018-2019
5. Name of the supervisor: DR. JOLLY DAS
6. Date of meeting of R.A.C.: 08/06/2024
7. Progress of Research Work:  
(with specific date / tenure)
8. Comments of the members of R.A.C.:

**Prof. Goutam Buddha Sural** commented:

- Though the Dalits are themselves discriminated in society, they practise internal gender discrimination.

**Prof. Indranil Acharya** commented:

- The thesis is well-structured.

**Prof. Joyjit Ghosh** advised:


- If the class-component in the argument on intersectionality of class, caste and gender cannot be adequately established, then it is advisable to focus only on caste and gender.

9. Specific suggestions, if any:
10. Remarks:
  - The members of the R.A.C. approve the change of one primary text. Kishore Kale's *Against all Odds* was replaced by Narendra Jadhav's *Outcaste: A Memoir*.
  - The members praise the structure of the thesis.
  - The members recommend proceeding for the pre-submission seminar presentation of the thesis when the chapter on Jadhav's text is ready.
  - It is recommended that an extension of 6 months w.e.f. 28/11/2024 be sought by the research scholar.

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D. Committee: 

Signature of the External Expert: 

Signature of the Member:  08/06/2024

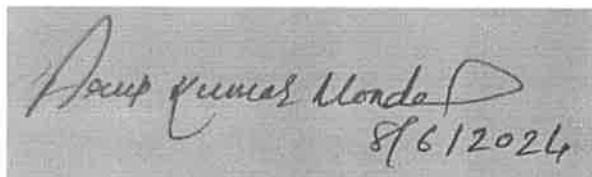
Signature of the Supervisor:

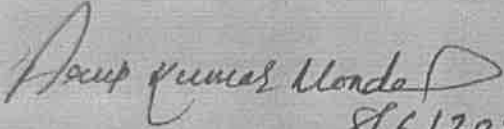


08.06.2024

**Documents Required for Submission with R.A.C. Report:**

1. Official notification
2. Attendance of the candidate



  
8/6/2024

3. Relevant document (Research paper / patent / Publications, if any)

**Publication:**

1. "Interrogating the Internal Gender Oppression within the Dalit Culture: A Critical Study of Malika Amar Shaikh's *I Want to Destroy Myself*" published in the *Journal of the Department of English*, Vidyasagar University, Volume 16, 2023.

**VIDYASAGAR UNIVERSITY  
MIDNAPORE**

**Department of English**

**Report of the meeting of the R.A.C.**

1. Name of the Candidate: SUBHASISH BARUA
2. Name of the Department: ENGLISH
3. Title of the Thesis: Ambedkar and the Making of Dalit Identity: A Reading of Marathi Dalit Men's Writings in English Translation
4. Registration No. with date and year: 00031 of 2018-2019. DATE- 28.11.2018
5. Name(s) of the supervisor(s): DR. JOLLY DAS
6. Date of meeting of R.A.C.: 08.06.2024
7. Progress of Research Work:  
(with specific date / tenure)
8. Comments of the members of R.A.C.:
  - The esteemed members have unanimously decided to recommend the thesis for the pre-submission seminar.
  - The esteemed members have also decided to grant the researcher an extension of six months.
9. Specific suggestions, if any:  
The esteemed members have allowed the researcher to revise the title to-  
The Making of Dalit Identity: A Study of Select Writings in English Translation by Marathi Dalit Men
10. Remarks:

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D Committee: 

Signature of the External Expert: 

Signature of the Member: 

Signature of the Supervisor:



08.06.2024

**Documents Required for Submission with R.A.C. Report:**

1. Official notification
2. Attendance of the candidate

Subharish Barua  
08.06.24

3. Relevant document (Research paper / patent / Publications, if any):

**VIDYASAGAR UNIVERSITY  
MIDNAPORE**

**Department of English**

**Report of the meeting of the R.A.C.**

**Meeting 1**

1. Name of the Candidate: Aishwarya Banerjee
2. Name of the Department: Department of English Literature, Language and Cultural Studies
3. Title of the Thesis: Representation of Violence in Select North East Indian English Fiction: A Study
4. Registration No. with date and year: 1083/ Ph.D. (Arts), w.e.f. 23.08.2023
5. Name of the supervisor: Professor Joyjit Ghosh

6. Date of meeting of R.A.C.: 12. 06. 2024 (Blended mode)

7. Progress of Research Work:  
(with specific date / tenure)

- Over the past one year since the pre-registration seminar (23<sup>rd</sup> August, 2023), the scholar has conducted an exhaustive literature review on the representation of violence in the North Eastern states of Assam, Nagaland, Manipur and Mizoram.
- The scholar has identified the primary texts and selected the authors to be studied from the five North Eastern states.
- The scholar has also visited Gauhati University, Cotton University and Bodoland University and initiated a dialogue with scholars and professors who have provided her with valuable perspectives on her research.

8. Comments of the members of R.A.C.:

The presentation by the scholar has been satisfactory.

9. Specific suggestions, if any:

1. The scholar is asked to justify the rationale behind taking five North Eastern states out of the eight states, in the Introduction.
2. The trauma theories of Geoffrey Hartman and Cathy Caruth should be included by the scholar. She is also advised to read Jacques Lacan.
3. The scholar could take interviews of people of the North East with lived experiences of violence and trauma.
4. She is also advised to search for other works which could be relevant for her research.
5. She has been advised to go through the works of Anjum Hasan.

6. The scholar, in consultation with her supervisor, proposed a change in the title. The new title has been approved by the Research Advisory Committee. It now stands as "Representation of Violence and Trauma in Select North East Indian Fiction in English".

10. Remarks:

(separate sheets may be used if necessary)

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D Committee:   
12/06/2024

Signature of the External Expert: 

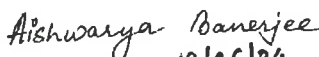
Signature of the Member:   
12/06/2024

Signature(s) of the Supervisor:   
12/06/2024

**Documents Required for Submission with R.A.C. Report:**

1. Official notification: Email dated 11.06. 2024

2. Attendance of the candidate: The candidate was physically present.

  
12/06/24

3. Relevant document (Research paper / patent / Publications, if any)

1. Translation of Anil Gharai's Interview (Book Chapter) in *Selected Writings of Anil Gharai: Dalit Literature from Bangla*, Routledge (December, 2023)

2. Eco-anthropological Approach to Select Lepcha Folklore: A Study in *Journal of the Department of English*, Vidyasagar University Vol. 17 (January, 2024)

VIDYASAGAR UNIVERSITY  
MIDNAPORE

Department of English

Report of the meeting of the R.A.C.

1. Name of the Candidate: PRATIMA DAS
2. Name of the Department: ENGLISH
3. Title of the Thesis: SHAKESPEARE IN HINDI TRANSLATIONS;  
A STUDY OF SELECT PLAYS
4. Registration No. with date and year: 296/PH.D (ARTS), 28.10.2020.
5. Name(s) of the supervisor(s): PROF. INDRANIL ACHARYA AND DR. SANTAY  
KUMAR JAYSWAL.
6. Date of meeting of R.A.C.: 19.06.2024
7. Progress of Research Work:  
(with specific date / tenure)
8. Comments of the members of R.A.C.:
9. Specific suggestions, if any:

The internal advisor Prof. Joya Ghosh advised the candidate to ~~take~~ touch on the theoretical aspect of translation in the thesis.

10. Remarks:

(separate sheets may be used if necessary)

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D Committee: Joya Ghosh

Signature of the External Expert: Soma Banerjee

Signature of the Member: Joya Ghosh

Signature(s) of the Supervisor(s): Indranil Acharya 19.06.2024



Documents Required for Submission with R.A.C. Report:

1. Official notification

2. Attendance of the candidate: Pratima Das, 19.06.2024.

3. Relevant document (Research paper / patent / Publications, if any) :

Participated in 9 Days National Online Certificate Course  
On Shakespeare Studies from 15<sup>th</sup> April to 23<sup>rd</sup> April  
2024.

[Documents Attached.]

SHAKESPEARE SOCIETY OF CENTRAL INDIA IN COLLABORATION WITH HISLOP COLLEGE,  
RAJKUMAR KEWALRAMANI KANYA MAHAVIDYALAYA, R.S. MUNDLE DHARAMPETH ARTS &  
COMMERCE COLLEGE, NAGPUR, & J.M. PATEL ARTS, COMMERCE & SCIENCE COLLEGE,  
BHANDARA

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

*Mr/Miss/Ms* PRATIMA DAS

*of* PINGLA THANA MAHAVIDYALAYA

HAS PARTICIPATED IN 9 DAYS NATIONAL ONLINE CERTIFICATE COURSE ON SHAKESPEARE  
STUDIES FROM 15th APRIL TO 23rd APRIL 2024



*Dr. Pramod Chatterborty,*  
President, Shakespeare  
Society of Central India

*Dr Urmila Dabir,*  
Principal, Rajkumar  
Kewalramani Kanya  
Mahavidyalaya

*Dr Prashant Sankhe,*  
Principal, Hislop  
College, Nagpur

*Dr Mohan Nagrale, Principal,*  
R.S. Mundle Dharampeth Arts  
& Commerce College, Nagpur

*Dr Vikas Dhokane,*  
Principal, J.M. Patel  
College, Nagpur

*Dr Usha Sakur, Secretary,*  
Shakespeare Society of  
Central India

VIDYASAGAR UNIVERSITY  
MIDNAPORE

Department of English

Report of the meeting of the R.A.C.

1. Name of the Candidate: AYANTI MONDAL
2. Name of the Department: ENGLISH
3. Title of the Thesis: 'CULTURAL AND IDEOLOGICAL ZEITGEIST IN THE CANONISATION OF THE RAMAYANA TRADITION : A Comparative Study of two regional versions'
4. Registration No. with date and year: 00002 of 2019-20  
(Title Registration – 28/11/2018)
5. Name(s) of the supervisor(s): DR. DEBASHIS BANDOPADHYAY
6. Date of meeting of R.A.C.: 18/06/2024

Progress of Research Work (with specific date / tenure): The introduction has taken shape charting the progress of Ramayana criticism in the 19<sup>th</sup>, 20<sup>th</sup> and 21<sup>st</sup> Century. The chapter on *Chandrabati Ramayana* has also been framed. The chapter on Wayanad Ramayanas has been given a theoretical structure dwelling on identity politics, cultural assimilation and resistance.

8. Comments of the members of R.A.C.:

1. The Chapter on Mapilla Ramayana needs more research.
2. To include more interviews with Ramayana scholars all across the country
3. To complete writing at a faster pace.

9. Specific suggestions, if any: Application for an extension of a period of 6 months from 28/11/2024

10. Remarks:


(Separate sheets may be used if necessary)

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D Committee: 

✓ Signature of the External Expert: 

Signature of the Member: 

Signature(s) of the Supervisor(s): 

**Documents Required for Submission with R.A.C. Report:**

1. Official notification

A handwritten signature in dark ink, appearing to be 'M. Qas' or similar, written in a cursive style.

2. Attendance of the candidate:

3. Relevant document (Research paper / patent / Publications, if any)

VIDYASAGAR UNIVERSITY  
MIDNAPORE

Department of English

Report of the meeting of the R.A.C.

1. Name of the Candidate: Abhinanda Chakraborty
2. Name of the Department: ENGLISH
3. Title of the Thesis: 'Sauntering through the woods on a frosty morning': A

Psychogeographical Exploration of Space, Identity and Narrative in Ruskin Bond

4. Registration No. with date and year: 00026 of the year 2018-2019
5. Name(s) of the supervisor(s): Prof. Dr. Debashis Bandyopadhyay
6. Date of meeting of R.A.C.: 27.06.2024

7. Progress of Research Work:

Chapter 1 of the thesis, laying out the background, history and significance of psychogeography, has been completed and submitted. The second chapter deals with Ruskin Bond's development as an Anglo-Indian writer and the challenges and crises that have shaped his authorial consciousness, especially in a postcolonial context, and it also seeks to analyse how Bond's acute sense of place maybe be interpreted in psychogeographical terms to assess the interrelationship between Bond's psyche and the physical environment and the manner in which it comes to be represented in and through his works. This chapter has also been completed.

The third chapter will primarily focus on the politics of exclusion in space, emphasizing the dialectic between the centre and the margin on the one hand and the normal and the pathological on the other and their role in the formation of identity, especially in the context of the Indian hill-stations. As a member of the Anglo-Indian community, Bond's positionality offers him a vantage point, as it were, to both perceive and represent the dynamics of power which informed these erstwhile colonial spaces which this chapter will seek to analyze, thereby either reasserting or questioning the prevalent discourses of identity and positionality and their interrelationship with space. This chapter is currently underway. Chapter 4 will continue an in-depth analysis of the politics of exclusion in space through a study of the role of gender in the context of deviance. It will seek to analyse how gender can influence the perception and the treatment of deviances from the norm both in the colonial context of the stories set against the backdrop of the hill stations as well as narratives set in the aftermath of the nation's independence at a later space-time matrix. It will also examine how Bond employs the elements of the supernatural or the irrational and the uncanny in his writings to portray this gendered perspective to often destabilize the politics of power and gender at the heart of both the colonial as well as the modern capitalist experiences. Chapter 5 will conclude this thesis by providing an

appraisal of both psychogeography as a methodological tool and of Bond as a psychogeographical writer while emphasizing the role of memory as resistance to give expression to a polyphony of voices that can add more agency and layers of complexity to the existing metanarratives, thereby making them richer and more ambiguous. It will further attempt to reassess the evolution of Bond's identity from an Anglo-Indian writer in post-independent India to a writer with a sense of a universal identity – transcending notions of race, class, culture, language or nationality - whose deep understanding of the interrelationship between identity and space, together with his ecocritical concerns, render his works relevant not just on a national but on a global scale.

✓ 8. Comments of the members of R.A.C.:

9. Specific suggestions, if any:

10. Remarks: Recommended for six months' extension from 28.11.2024 (Till 28.05.2025)  
(separate sheets may be used if necessary)

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D Committee:



✓ Signature of the External Expert:



Signature of the Member:



Signature(s) of the Supervisor(s):



**Department of English Literature, Language and Cultural Studies**

**Report of the meeting of the Research Advisory Committee**

1. Name of the Candidate: **Isha Biswas**
2. Name of the Department: **Department of English Literature, Language and Cultural Studies**
3. Title of the Thesis: **Representations of Witches by Select Women Writers of 21<sup>st</sup> Century American Fiction**
4. Registration No. with date and year: No. 186/Ph.D. (Arts) dated 06/03/2020  
[University Registration No. 00001 of 2021-2022]
5. Name of the supervisor: **Dr Jolly Das, Associate Professor, Dept of English Literature, Language and Cultural Studies**
6. Date of meeting of R.A.C.: **21.06.2024**
7. Progress of Research Work: **Work on textual chapters completed, introductory and**
8. **(with specific date / tenure) concluding chapters in progress**
9. Comments of the members of R.A.C.:
  - The research has been satisfactory, with the structure of the thesis justifying the nature of the work.
  - Isha Biswas is permitted to prepare for the pre-submission seminar presentation.
10. Specific suggestions:
  - (i) Prof. Tirthankar Das Purkayastha (External Advisor, RAC):
    - Inclusion of Medea's importance in the chapter on Madeline Miller's *Circe* (Complied with).
    - Referencetothe Rosicrucian cult in connection with Goddess Diana in the chapter on Deborah Harkness's *A Discovery of Witches*.
    - More focus on history of witchcraft discourseto understand the modern trend of witch-protagonists in power-fantasy.
  - (ii) Prof. Joyjit Ghosh (Internal Advisor, RAC)
    - Clarification on the protagonist witches' voice as resistance against existing power structures and systemic oppression. (Complied with in terms of reclamation of their agency through coming of age and coming into power narratives)
11. Remarks:

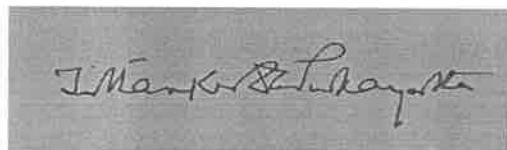
(separate sheets may be used if necessary)

  - The work done is satisfactory.

### Signatures of the Members of R.A.C.

Signature of the Secretary, Ph.D. Committee: 

Signature of the External Expert:

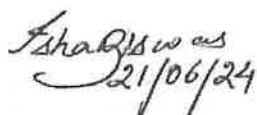


Signature of the Member: 

Signature of the Supervisor: 

### Documents Required for Submission with R.A.C. Report:

#### 1. Official notification



21/06/24

#### 2. Attendance of the candidate:

#### 3. Relevant document (Research paper / patent / Publications, if any)

##### Conference Proceedings:

- “When spotted deaths ran arm’d through every street”: Women-Healers and the Great Plague in Geraldine Brooks’ *Year of Wonders*.” Isha Biswas. *Rupkatha Journal on Interdisciplinary Studies in Humanities* (ISSN 0975-2935) Indexed by Web of Science, Scopus, DOAJ, ERIHPLUS. Special Conference Issue (Vol. 12, No. 5, 2020. 1-6) from 1st Rupkatha International Open Conference on Recent Advances in Interdisciplinary Humanities (rioc.rupkatha.com) Full Text: <http://rupkatha.com/V12/n5/rioc1s26n4.pdf> DOI: <https://dx.doi.org/10.21659/rupkatha.v12n5.rioc1s26n4>
- “Magical Immunization: Occult and the Pandemic in Nora Roberts’ *Year One*”. Isha Biswas. *NEW LITERARIA- An International Journal of Interdisciplinary Studies in Humanities*. Volume 3, No. 1, January-February, 2022, PP. 134-140 . ISSN: 2582-7375 . DOI: <https://dx.doi.org/10.48189/nl.2022.v03i1.015>

##### UGC-CARE journal publication:

- “Devilish Dames and Damsels: Witches, Demonesses and Supernatural Women in Dakshinaranjan Mitra Majumder’s *ThakurmarJhuli*.” Isha Biswas, *Journal of the*



- “Cry Witch: Representation of German Witch-Lore and Persecution of Dispossessed Women in Oliver Potzsch’s *The Hangman’s Daughter* and Erika Mailman’s *The Witch’s Trinity*.” Isha Biswas, *Journal of English Studies*, Dibrugarh University. 2021. <https://www.dujes.co.in/p/cry-witch-representation-of-german.html>

Book chapters:

- “Famine, Fertility, and Fear: Scapegoating Women as Witches in Rural India in Tarashankar Bandyopadhyay and Mahasweta Devi’s Short Stories.” Isha Biswas. *Exploring Subalternity in Literature: Critical Perspectives*. Edited by Dr Rajan Lal, Authors Press India. 2021.
- “A Different Hunt: Dispossession of the Indigenous Human and Animal Forest Communities in Jim Corbett’s Tiger Hunts and Their Reclamation in Buddhadeb Guha’s Shikar Stories of Rhiju Da”. Isha Biswas. *Ecology, Literature, and Culture: An Anthology of Recent Studies*. Edited by Dr Animesh Roy. Atlantic Publishers, Delhi. 2022.

**VIDYASAGAR UNIVERSITY**  
**MIDNAPORE**  
**Department of English**

**Report of the meeting of the R.A.C.**

1. **Name of the Candidate:** Rupsa Roy Chowdhury
2. **Name of the Department:** ENGLISH
3. **Title of the Thesis:** "The Corporeal Other: Disability in Select Victorian Popular Fiction"
4. **Registration No. with date and year:** 185/ Ph D (Arts), 2020-21, date: 27/02/2020
5. **Name(s) of the supervisor(s):** Dr. Debashis Bandyopadhyay. Dr. Jolly Das.
6. **Date of meeting of R.A.C.:** 20/06/2024

**7. Progress of Research Work:**

Based on the valuable feedback from the previous RAC meeting, the focus of the thesis has shifted from looking at how different genres interact with representations of disability to whether and how popular British fictions of the late 19th century resist the prevalent discourses of disability in Victorian England. The latter has also been chosen to be the organising principle of the thesis, and hence, there has been a restructuring of the chapters, which now divide the primary texts based on the discourses they engage with, rather than the genre they belong to.

The thesis has been restructured thus 1) a chapter that explores Victorian discourses of disability; 2) a chapter that studies popular fictional texts that engage with the oralist debate and challenge the prevalent discourse around deafness; 3) a chapter that focuses on the disabled female body in popular domestic fictions of the late 19th century; and 4) a chapter

that investigates how discourses of disability affected men with disabilities and looks for and studies instances of 19th century popular fiction that question or complicate the prevalent discourses around manliness and disability.

The primary texts of each of these chapters have been chosen and are being re-studied. Finally, a tentative chapter is being formed that will investigate how Dinah Mulock Craik's fairy tale novel *The Little Lambe Prince* questions and complicates the connection between 'healthy' king and 'healthy' kingdom.

✓ 8. Comments of the members of R.A.C.:

9. Specific suggestions, if any:

- The advisory committee suggested that, along with the Victorian discourses of disability, the thesis may also include a section tracing the development of disability discourses in western society before the nineteenth century.
- The committee also advised to elaborate upon the pseudo-scientific approaches of understanding and thinking about disability that were growing fast in the late 19th century British society.
- The advisory committee recommended including contemporary reviews or any data detailing people's sentiment towards the novels and writers that are being studied
- The committee was of the opinion that the conclusion of the thesis may focus on how popular Victorian fictions actually show a more progressive and modern understanding of disability and advised that consistency must be maintained between the introduction, conclusion, and core chapters.

10. Remarks, if any:

(separate sheets may be used if necessary)

Signatures of the Members of R.A.C.

Signature of the Secretary, Ph.D Committee:



✓ Signature of the External Expert:



Signature of the Member:



Signature(s) of the Supervisor(s):

*Isandya Pathyay · Jolly Das*

Documents Required for Submission with R.A.C. Report:

1. Official notification:

2. Attendance of the candidate *Rupna Roy Chowdhury*

3. Relevant document (Research paper / patent / Publications, if any)

Parts of research findings have been presented as individual research papers in the following

International and National Webinar/seminar respectively.

“(Not) Written on the Body: Ability/disability in Dinah Mullock Craik’s *The Little*

*Lame Prince and his Travelling Cloak*” (Presented at Webinar International on

English Literature of and Marginality conducted by Rishi Bankim Chandra

College).

“The Sound of Silence: Reading Mary Elizabeth Braddon's *The Trail of the Serpent*

from the Lens of Disability Studies” (Presented at a National Research

Graduate Meet, arranged by Indian Institute of Technology, Jodhpur).

**VIDYASAGAR UNIVERSITY  
MIDNAPORE**

**Department of English**

**Report of the meeting of the R.A.C.**

1. Name of the Candidate: Soumi Mukherjee
2. Name of the Department: ENGLISH
3. Title of the Thesis: Translation as Transcreation: A Study of Select Auto-translated

Poems of Rabindranath Tagore

4. Registration No. with date and year: 187/Ph.D. (Arts), with effect from 27. 2. 2020
5. Name(s) of the supervisor(s): Prof. Joyjit Ghosh
6. Date of meeting of R.A.C.: 08. 06. 2024
7. Progress of Research Work (with specific date / tenure): A total of four chapters have been drafted and submitted to the supervisor.

8. Comments of the members of R.A.C.: Prof. Goutam Buddha Sural has advised to include the practices and principles of the recent Tagore translators, especially of Fakrul Alam, in terms of the transcreation theory.

Dr. Jolly Das has suggested to incorporate the literary correspondence between Rabindranath Tagore and T. S. Eliot into the thesis.


9. Specific suggestions, if any:

10. Remarks:  
(separate sheets may be used if necessary)


**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D. Committee:



Signature of the External Expert: 

Signature of the Member: 

Signature(s) of the Supervisor(s): 

**Documents Required for Submission with R.A.C. Report:**

1. Official notification

2. Attendance of the candidate:



3. Relevant document (Research paper / patent / Publications, if any): The research article titled "Modernity and Nationalism at the Crossroads: Is "Creative Unity" the Answer?" has been published in the *IIS University Journal of Arts* (U.G.C. Care Group I Journal, ISSN: 2319-5339 (Print); 25837591 (Online); Volume 13, Issue 1) (Relevant Document is Attached).

PROGRESS REPORT OF THE RESEARCH SCHOLAR

The Registrar

Midnapore - 721 102

West Bengal, India

Sub. : Progress report for the Ph.D. Programme in ..... Political Science

for the period from ..... 10.....

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SUCHEETANA PAUL
2. Name of Supervisor(s) : Prof. Sibaji Pratin Baser
3. Date of Registration for Ph.D. Degree : 27.04.2021
4. Title of Research Work : .....

6 The Citizenship (Amendment) Act, 2019 and its impact on power  
An insight on North 24 Parganas based on differences in cities

5. Details in respect of Research work carried out during the above mentioned period :

Chapter 2 has been submitted

Field visit has been done.

Currently working on Chapter 3

Yours sincerely,

Suchetana Paul

Signature of the Research Scholar

Comments of the Supervisor(s) :



YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from ..... to .....

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Suchetana Paul
2. Name of Supervisor(s) : Professor Shaji Pratum Basu
3. Date of Registration for Ph.D. Degree : 27.04.2021
4. Title of Research Work : The Citizenship (Amendment) Act, 2019 and 'Bio-Power': An insight on North 24 Parganas based on differences in literacy
5. Details in respect of Research work carried out during the above mentioned period: The scholar has submitted 2 chapters to visited field & currently working on chapter-3

Yours Sincerely,

Suchetana Paul

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☐ Poor ☒
5. Punctuality in attendance:  
Good ☐ Fair ☐ Poor ☒
6. Amenability to discipline:  
Good ☐ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☒ Poor ☐
8. Overall Grading:  
Good ☐ Fair ☒ Poor ☐

Any other comment of the Supervisor(s):

S. Pratum  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐





Comments, if any:

Signature

### Report of the Meeting of RAC

1. Name of the Candidate: SUCHETANA PAUL
2. Name of the Department: POLITICAL SCIENCE
3. Title of the Thesis: "The Citizenship (Amendment) Act, 2019 and 'No-Power': An insight on North 24 Parganas based on differences in Literacy."
4. Registration No with date & year: 338/PhD. Arts / 27.04.2021
5. Name of the Supervisor(s): Professor Sibaji Pratik Basu
6. Date of Meeting of RAC: 18.04.2024
7. Progress of Research Work:  
(With specific Date/Tenure)
8. Comments of the members of RAC:
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: 
2. Signature of the External Expert:  ~~Sumit Mukherjee~~ Deb Chatterjee
3. Signature of the Members: 
4. Signature of the Supervisor(s): 

Report of the Meeting of RAC

1. Name of the Candidate: **MANOJ BISAI**
2. Name of the Department: **Dept. of Political Science**
3. Title of the Thesis: **IDENTITY POLITICS AND MOVEMENT FOR AUTONOMY: A STUDY OF THE GREATER COOCH BEHAR MOVEMENT IN NORTH BENGAL**
4. Registration No with date & year: **335/Ph.D. (Arts), 27.04.2021**
5. Name of the Supervisor(s): **DR. EYASIN KHAN**
6. Date of Meeting of RAC: **18.04.2024**
7. Progress of Research Work:  
(With specific Date/Tenure)  
**In this period (16.08.2023 - 18.04.2024), the researcher conducted a field survey in Cooch Behar district and collected some important data by the interview about the movement as well as the socio-political.**
8. Comments of the members of RAC: **of the Rajbanshi people.**
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: **Srinath 18/4/24**
2. Signature of the External Expert: **Srinath - 18/4/24**
3. Signature of the Members: **S. Bhattacharya**
4. Signature of the Supervisor(s): **Eyasin**  
**18.04.24**

## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from 16.08.2023 to 18.04.2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : MANOJ BISAI
2. Name of Supervisor(s) : DR. EYASIN KHAN
3. Date of Registration for Ph.D. Degree : 27.04.2021
4. Title of Research Work : IDENTITY POLITICS AND MOVEMENT FOR AUTONOMY : A STUDY OF THE GREATER COOCH BEHAR MOVEMENT IN NORTH BENGAL

5. Details in respect of Research work carried out during the above mentioned period :

In this period, the researcher conducted a field survey in Cooch Behar district and collected some important data by the interview about the movement as well as the social profile of the Rijbanshi peoples.

Yours sincerely,

Manoj Bisai

Signature of the Research Scholar

Comments of the Supervisor(s) :

Work in progress



Assistant Professor  
Department of Political Science  
Vidyasagar University



YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from 16.08.2023 to 18.04.2024


Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : MANOJ BISAI
2. Name of Supervisor(s) : Dr. EYASIN KHAN
3. Date of Registration for Ph.D. Degree : 27.04.2021
4. Title of Research Work : IDENTITY POLITICS AND MOVEMENT FOR AUTONOMY: A STUDY OF THE GREATER COCH BEHAR MOVEMENT IN NORTH BENGAL
5. Details in respect of Research work carried out during the above mentioned period:  
In this period the researcher conducted a field survey in Coch Behar district and collected some important data by the interview about the movement and some profile of the Rajbanshi people.

Yours Sincerely,

Manoj Bisai  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
1. General intelligence & keenness to learn:	
Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>	
2. Initiative, Drive and Resourcefulness:	
Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>	
3. Quality of Research Work:	
Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>	
4. Willingness to shoulder additional responsibility and put in extra efforts:	
Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>	
5. Punctuality in attendance:	
Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>	
6. Amenability to discipline:	
Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>	
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):	
Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>	
8. Overall Grading:	
Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>	
Any other comment of the Supervisor(s):	
 Signature of the Supervisor (s)	
Assistant Professor Department of Political Science Vidyasagar University	
Counter signed by the Dean of the University Faculty	

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

PROGRESS REPORT OF THE RESEARCH SCHOLAR

The Registrar  
Midnapore - 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from 16.08.23 to 18.04.24

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : ARUNAVA DAS
2. Name of Supervisor(s) : PROF SIBAJI PRATIM BASU

3. Date of Registration for Ph.D. Degree : 27.04.21

4. Title of Research Work

The Bengal Enclave and Politics: Highlighting  
The Role of Naxals and Women

5. Details in respect of Research work carried out during the above mentioned period :

Three Chapters have submitted to supervisor.  
one paper present on one day state level  
Seminar about Human Rights at Vidyasagar  
University.

Yours sincerely,

Arunava Das  
Signature of the Research Scholar

Comments of the Supervisor(s) :

The candidate has progressed well and his performance  
in RAC is quite satisfactory.

SPBM  
18/04/24

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from 16.08.23 to 18.04.24

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : ARUNAVA DAS
2. Name of Supervisor(s) : PROF. SIBAJI PRATIM BASU
3. Date of Registration for Ph.D. Degree : 24.04.21
4. Title of Research Work : The Bengal Enclave and Politics!  
Highlighting the Role of Men and women
5. Details in respect of Research work carried out during the above mentioned period:  
Three chapters have submitted to supervisor. Now  
one paper present on one day state level seminar about  
'Human Rights' at Vidyasagar University

Yours Sincerely,

Arunava Das

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☐ Fair ☒ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

[Signature]  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐





Comments, if any:

Signature

Report of the Meeting of RAC

1. Name of the Candidate: ARUNAVA DAS
2. Name of the Department: Political Science
3. Title of the Thesis: THE BENGAL ENCLAVE AND POLITICS;  
HIGHLIGHTING THE ROLE OF NGOs AND WOMEN
4. Registration No with date & year: 334/Ph.D. (Arts)
5. Name of the Supervisor(s): PROF. SIBAJI PRATIM BASU
6. Date of Meeting of RAC: 18.04.24
7. Progress of Research Work:  
(With specific Date/Tenure) Three chapters have submitted to supervisor, one paper present on one day state level seminar about 'Human Rights' at Vidyasagar University.
8. Comments of the members of RAC:
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: 
2. Signature of the External Expert: Sumit Mukherjee
3. Signature of the Members: 
4. Signature of the Supervisor(s): 



### Report of the Meeting of RAC

1. Name of the Candidate: *Riya Basudhar*
2. Name of the Department: *Political Science*
3. Title of the Thesis: *Rohingyas in Bangladesh : A Study in Statelessness and Exclusion (1982-2018)*
4. Registration No with date & year: *Registration No: 827; Date & Year: 10.12.2018*
5. Name of the Supervisor(s): *Dr. Sujay Ghosh*
6. Date of Meeting of RAC: *06.03.2024*
7. Progress of Research Work: *From September 2023 to February 2024, I have done*  
(With specific Date/Tenure) *all my fieldwork and now compiling all that information in my thesis that I have collected from field work.*
8. Comments of the members of RAC: *RAC has no objection to her change in Thesis*
9. Specific Suggestion if any: *Read the Bangladeshi anti books on Rohingya. Make Qualitative - Quantitative ratio. Sharpen your methodology & theoretical framework.*
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: *Shubh*
2. Signature of the External Expert: *Shh*
3. Signature of the Members: *S. Bhattacharya*
4. Signature of the Supervisor(s): *Shubh*

PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from September 2023 to February 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Riya Barudhar
2. Name of Supervisor(s) : Dr. Sujay Ghosh
3. Date of Registration for Ph.D. Degree : 10.12.2018
4. Title of Research Work : Rehingyas in Bangladesh: A Study in Statelessness and Exclusion (1982-2018)

5. Details in respect of Research work carried out during the above mentioned period :

During the above mentioned period I have done all my fieldwork and now writing all that informations in my thesis that I have collected from fieldwork.

Yours sincerely,

Riya Barudhar  
Signature of the Research Scholar

Her progress is satisfactory

Comments of the Supervisor(s) :

Sushil  
Associate Professor  
Dept. of Political Science  
VIDYASAGAR UNIVERSITY  
Midnapore-721102, W. B.

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from ..... to .....


Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Riya Baruah
2. Name of Supervisor(s) : Dr. Suraj Ghosh
3. Date of Registration for Ph.D. Degree : 10.12.2018
4. Title of Research Work : Rohingyas in Bangladesh: A Study in Statelessness and Exclusion (1982-2018)
5. Details in respect of Research work carried out during the above mentioned period:  
During this period I have done all my fieldwork and now writing all that informations in my thesis that I have collected from fieldwork.

Yours Sincerely,

Riya Baruah  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
1. General intelligence & keenness to learn:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
2. Initiative, Drive and Resourcefulness:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
3. Quality of Research Work:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
4. Willingness to shoulder additional responsibility and put in extra efforts:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
5. Punctuality in attendance:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
6. Amenability to discipline:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
8. Overall Grading:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
Any other comment of the Supervisor(s):  ..... Signature of the Supervisor(s) <div align="center"> Associate Professor Department of Political Science VIDYASAGAR UNIVERSITY Midnapore-721102, W. B.</div>	
Counter signed by the Dean of the concerned Faculty	

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

Report of the Meeting of RAC

1. Name of the Candidate: AMIT LUGUN
2. Name of the Department: POLITICAL SCIENCE
3. Title of the Thesis: Citizens' Entitlements: A Comparison of two Select Central Government Policies in regions of West Bengal and Jharkhand
4. Registration No with date & year: 788/27-09-2022
5. Name of the Supervisor(s): Dr. Sujay Ghosh
6. Date of Meeting of RAC: 06-03-2024
7. Progress of Research Work: (With specific Date/Tenure) written the first chapter titled "Conceptual Framework: Public Policy, Policy Communication, and Development"
8. Comments of the members of RAC: Do some reading to have the conceptual issues on entitlement, such as Rawls & Amartya Sen
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: Shubh 6/3
2. Signature of the External Expert: Dr. Chatterjee 6.3.24.
3. Signature of the Members: Anon
4. Signature of the Supervisor(s): Shubh



## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To

The Registrar

Vidyasagar University

Midnapore - 721 102

West Bengal, India

Sub. : Progress report for the Ph.D. Programme in POLITICAL SCIENCE

for the period from 16-08-2023 to 06-03-2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : AMIT LUGUN
2. Name of Supervisor(s) : Dr. SUJAY GHOSH
3. Date of Registration for Ph.D. Degree : 27-09-2022
4. Title of Research Work : .....

Citizen's Entitlements: A comparison of two select Central Government policies in regions of West Bengal and Jharkhand

5. Details in respect of Research work carried out during the above mentioned period :

written 1<sup>st</sup> chapter titled 'Conceptual Framework: Public Policy, Policy Communication, and Development'

Yours sincerely,

Amit Lugun  
Signature of the Research Scholar

Comments of the Supervisor(s) :

Sujay  
Associate Professor  
Dept. of Political Science  
VIDYASAGAR UNIVERSITY  
Midnapore-721102, W. B.

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in POLITICAL SCIENCE  
For the period from 16-8-2023 to 06-3-2024


Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : AMIT LUGUN
2. Name of Supervisor(s) : DR. SUJAY GHOSH
3. Date of Registration for Ph.D. Degree : 27-09-2022
4. Title of Research Work : Citizen's Entitlements: A Comparison of two select Central Government Policies in Regions of West Bengal and Jharkhand
5. Details in respect of Research work carried out during the above mentioned period:  
written the 1st chapter titled 'Conceptual Framework: Public Policy, Policy Communication, and Development'

Yours Sincerely,

Amit Lugun  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
1. General intelligence & keenness to learn:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
2. Initiative, Drive and Resourcefulness:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
3. Quality of Research Work:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
4. Willingness to shoulder additional responsibility and put in extra efforts:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
5. Punctuality in attendance:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
6. Amenability to discipline:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
8. Overall Grading:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
Any other comment of the Supervisor(s):	
<div align="center"> Associate Professor Signature of the Supervisor(s) VIDYASAGAR UNIVERSITY Midnapore-721102, W. B.</div>	
Counter signed by the Dean of the concerned Faculty	

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

### Report of the Meeting of RAC

1. Name of the Candidate: NAVONIL DEY
2. Name of the Department: Department of Political Science
3. Title of the Thesis: Soft Power to Smart Power: India, Vietnam and Cambodia
4. Registration No with date & year: 159, 13.01.2020
5. Name of the Supervisor(s): Dr. Swatilekha Bhattacharya
6. Date of Meeting of RAC: 6th March, 2024.
7. Progress of Research Work: Three chapters in total have been written  
(With specific Date/Tenure) and Four papers have been published.
8. Comments of the members of RAC:  
work is satisfactory. candidate will ~~write~~ update the chapters.
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: Shishu
2. Signature of the External Expert: S. Chatterjee 6.3.24
3. Signature of the Members: Shishu
4. Signature of the Supervisor(s): S. Bhattacharya

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Arts (Political Science)  
For the period from August, 23 to February, 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Navonil Dey
2. Name of Supervisor(s) : Dr. Swatilekha Bhattacharya
3. Date of Registration for Ph.D. Degree : 13/01/2020
4. Title of Research Work : Soft Power to Smart Power! India, Vietnam and Cambodia
5. Details in respect of Research work carried out during the above mentioned period:  
One chapter has been written and data from the field trip has been incorporated in the thesis.

Yours Sincerely

  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):



Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature



PROGRESS REPORT OF THE RESEARCH SCHOLAR

The Registrar  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in ARTS (Political Science)  
for the period from August, 2023 to February, 2024

Sir,  
I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Navomil Dey
2. Name of Supervisor(s) : Dr. Swatilekha Bhattacharya
3. Date of Registration for Ph.D. Degree : 13/01/2020
4. Title of Research Work : Soft Power to Smart

Power : India, Vietnam and Cambodia

5. Details in respect of Research work carried out during the above mentioned period :

From August, 2023 to February, 2024, one core chapter has been written and data from the field trip (April, 2023) has been incorporated in the thesis.

Yours sincerely,

Navomil Dey  
Signature of the Research Scholar


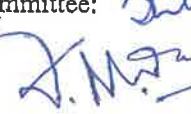

Comments of the Supervisor(s) :

Work is ~~satisfactory~~ satisfactory  
S. Bhattacharya

### Report of the Meeting of RAC

1. Name of the Candidate: Antara Bhattacharya
2. Name of the Department: Political Science
3. Title of the Thesis: Understanding the UN Financial System: Implications for Political and Humanitarian Domain (Select Case studies).
4. Registration No with date & year: 1072, 16/8/23
5. Name of the Supervisor(s): Dr. Swatilekha Bhattacharya
6. Date of Meeting of RAC: 6/3/24
7. Progress of Research Work: Studied and done literature review of 2 books. Attended International Conference & presented paper.  
(With specific Date/Tenure)
8. Comments of the members of RAC: Candidate has been asked to select particular case studies. work is not precise now. She has not pointed out the research gaps. Research methodology is not clear.
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: 
2. Signature of the External Expert:  06/03/24.
3. Signature of the Members: 
4. Signature of the Supervisor(s): S. Bhattacharya

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from 16/08/2023 to 6/03/2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Antara Bhattacharya
2. Name of Supervisor(s) : Dr. Swatilekha Bhattacharya
3. Date of Registration for Ph.D. Degree : 16/8/23
4. Title of Research Work : Understanding the UN Financial System: Implications for Political and Humanitarian domain (Select Case studies)
5. Details in respect of Research work carried out during the above mentioned period:

Yours Sincerely,

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☐ Poor ☒
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☐ Fair ☐ Poor ☒
6. Amenability to discipline:  
Good ☐ Fair ☒ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☒ Poor ☐
8. Overall Grading:  
Good ☐ Fair ☒ Poor ☐

Any other comment of the Supervisor(s):

Swatilekha Bhattacharya

Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from 16/08/2023 to 6/03/2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Antara Bhattacharya  
2. Name of Supervisor(s) : Dr. Swatilekha Bhattacharya

3. Date of Registration for Ph.D. Degree : 16/08/2023

4. Title of Research Work : Understanding the UN Financial  
system : Implications for Political and Humanitarian  
domain (Select Case studies)

5. Details in respect of Research work carried out during the above mentioned period :

Yours sincerely,

Antara Bhattacharya  
Signature of the Research Scholar

Comments of the Supervisor(s) :



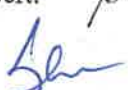
Need to do better.  
S. Bhattacharya



### Report of the Meeting of RAC

1. Name of the Candidate: CHIRANJIT BAR
2. Name of the Department: Political Science
3. Title of the Thesis: The concept of Development in the Eyes of Gandhi and Tagore: A comparative study.
4. Registration No with date & year: 161 Ph.D (arts), 2020
5. Name of the Supervisor(s): Dr. Swatilekha Bhattacharya.
6. Date of Meeting of RAC: 06.04.2024
7. Progress of Research Work: Third chapter has done in this period,  
(With specific Date/Tenure) one article was accepted by a Peer-Reviewed Journal for publication and one abstract has selected at international conference for presentation.
8. Comments of the members of RAC:  
Candidate could not answer some of the conceptual questions asked by the experts. Candidate is asked to prepare a bibliography and review them. The work needs to have more clarity.
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: 
2. Signature of the External Expert: 
3. Signature of the Members: 
4. Signature of the Supervisor(s): S. Bhattacharya

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from SEP, 2023 to MARCH 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : CHIRANJIT DAR
2. Name of Supervisor(s) : DR. Swatilekha Bhattacharya
3. Date of Registration for Ph.D. Degree : 2020
4. Title of Research Work : Gramdhanda Tagore's A comparative study of the concept of development in the Eyes of
5. Details in respect of Research work carried out during the above mentioned period: Third has done and one article has accepted for publication and one abstract has been selected for presentation.

Yours Sincerely,

Chiranjit Dar  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☐ Poor ☒
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☐ Fair ☒ Poor ☐

Any other comment of the Supervisor(s):

Swatilekha Bhattacharya  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Midnapore - 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from Sep, 2023 to March 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : CHIRANJIT BAR
2. Name of Supervisor(s) : DR. Swatilekha Bhattacharya
3. Date of Registration for Ph.D. Degree : 2020
4. Title of Research Work : The concept of development in the Eyes of Gandhi and Tagore: A comparative Study
5. Details in respect of Research work carried out during the above mentioned period :  
Third Chapter has done in this period,  
one article has accepted by a Peer - Reviewed  
Journal for publication and one abstract  
was selected at international conference for  
Presentation

Yours sincerely,

Chiranjit Bar  
Signature of the Research Scholar

Comments of the Supervisor(s) :

work is satisfactory.  
S. Bhattacharya

### Report of the Meeting of RAC

1. Name of the Candidate: Suman kumar Shee
2. Name of the Department: Political Science
3. Title of the Thesis: "E-governance and the problem of Rural Development in Select Regions of West Bengal and Odisha".
4. Registration No with date & year: Reg. No. 789, Year - 2022, 27<sup>th</sup> September.
5. Name of the Supervisor(s): Dr Eyasin Khan.
6. Date of Meeting of RAC: 06.03.2024
7. Progress of Research Work: Complete the first chapter of writing.  
(With specific Date/Tenure) August 2023 to February 2024.
8. Comments of the members of RAC:  
Candidate has been asked to speed up his work. Bibliography needs to be updated.
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee:



2. Signature of the External Expert:



3. Signature of the Members:



4. Signature of the Supervisor(s):





PROGRESS REPORT OF THE RESEARCH SCHOLAR

The Registrar  
Midnapore - 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from August 2023 to February 2024

Sir,  
I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Suman kumar Shee
2. Name of Supervisor(s) : Dr Eyasim Khan
3. Date of Registration for Ph.D. Degree : 27.09.2022
4. Title of Research Work : "E-governance and the problem of rural development in select regions of west Bengal and Odisha"

5. Details in respect of Research work carried out during the above mentioned period :  
complete the first chapter of writing.

Yours sincerely,

Suman kumar shee  
Signature of the Research Scholar

Comments of the Supervisor(s) :

work in progress

Ans

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from August 2023..... to February 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Suman Kumar Shee
2. Name of Supervisor(s) : Dr Eyasim Khan
3. Date of Registration for Ph.D. Degree : 27.09.2022
4. Title of Research Work : "E-governance and the problem of Rural Development in select regions of West Bengal and Odisha"
5. Details in respect of Research work carried out during the above mentioned period:  
Complete the first chapter of writing

Yours Sincerely,

Suman Kumar Shee  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
1. General intelligence & keenness to learn:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
2. Initiative, Drive and Resourcefulness:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
3. Quality of Research Work:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
4. Willingness to shoulder additional responsibility and put in extra efforts:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
5. Punctuality in attendance:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
6. Amenability to discipline:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
8. Overall Grading:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
Any other comment of the Supervisor(s):  <u>EK</u>	
Signature of the Supervisor (s):  .....	
Counter signed by the Dean of the concerned Faculty  .....	

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

30

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from 16/08/2023 to 12/04/2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Radha Mondal
2. Name of Supervisor(s) : Sibaji Pratik Basu
3. Date of Registration for Ph.D. Degree : 10/12/2018
4. Title of Research Work : Bankimchandra and the Rise of Hindu Nationalism in Bengal
5. Details in respect of Research work carried out during the above mentioned period: In this period I wrote 5th chapter in my present work

Yours Sincerely,

Radha Mondal

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:

Good ☒ Fair ☐ Poor ☐

2. Initiative, Drive and Resourcefulness:

Good ☒ Fair ☐ Poor ☐

3. Quality of Research Work:

Good ☒ Fair ☐ Poor ☐

4. Willingness to shoulder additional responsibility and put in extra efforts:

Good ☐ Fair ☒ Poor ☐

5. Punctuality in attendance:

Good ☐ Fair ☒ Poor ☐

6. Amenability to discipline:

Good ☒ Fair ☐ Poor ☐

7. Relations with colleagues and teachers (willingness to co-operate and collaborate):

Good ☒ Fair ☐ Poor ☐

8. Overall Grading:

Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

[Signature]  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

[Signature]  
Signature

**PROGRESS REPORT OF THE RESEARCH SCHOLAR**

To  
The Registrar  
Vidyasagar University  
Midnapore - 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from 16/08/2023 to 18/04/2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Radha Mondal
2. Name of Supervisor(s) : Sibaji Pratin Basu
3. Date of Registration for Ph.D. Degree : 831 10/12/2018
4. Title of Research Work : Bankimchandra and

the Rise of Hindu Nationalism in  
Bengal

5. Details in respect of Research work carried out during the above mentioned period :

In this period I wrote fifth chapter  
in my research work.

Yours sincerely,

Radha Mondal

Signature of the Research Scholar

Comments of the Supervisor(s) :

The candidate has almost completed her work and her  
performance in the RAC is quite impressive.

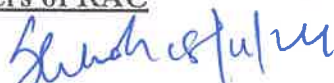



L  
18/04/24



Report of the Meeting of RAC

1. Name of the Candidate: RADHA MONDAL
2. Name of the Department: POLITICAL SCIENCE
3. Title of the Thesis: BANKIMCHANDRA AND THE RISE OF HINDU NATIONALISM IN BENGAL
4. Registration No with date & year: 831 / 10.12.2018
5. Name of the Supervisor(s): SIBAJI PRATIM BASU
6. Date of Meeting of RAC: 18.04.2024
7. Progress of Research Work: From the last meeting of RAC (16/08/2023) (With specific Date/Tenure) - 18/04/2024 I completed writing 4th chapter and 5th chapter of my research work.
8. Comments of the members of RAC:
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: 
2. Signature of the External Expert: 
3. Signature of the Members: 
4. Signature of the Supervisor(s): 

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in POLITICAL SCIENCE  
For the period from 16/2/2023 to 18/4/2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : DEEDHI DATTA
2. Name of Supervisor(s) : Prof. Gbagi Pradip Basu
3. Date of Registration for Ph.D. Degree : 13/01/2020
4. Title of Research Work : The National Register of Citizens and the Indian State: A study on the Politics of Exception
5. Details in respect of Research work carried out during the above mentioned period:  
The research scholar has submitted chapter 5 and is currently working on chapter 6.  
The researcher is also modifying chapter 3 titled chronology of CAA.

Yours Sincerely,

*Deedhi Datta*

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☐ Fair ☒ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

*S.P.B.*  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

### Report of the Meeting of RAC

1. Name of the Candidate: DEEDHITI DATTA
2. Name of the Department: POLITICAL SCIENCE DEPARTMENT
3. Title of the Thesis: The National Register of Citizens and the Indian State : A study  
on the Politics of Exclusion.
4. Registration No with date & year: 158 Date : 13/01/2020
5. Name of the Supervisor(s): Prof. Sibaji Pradip Basu.
6. Date of Meeting of RAC: 18/04/2024.
7. Progress of Research Work: Presently, the research scholar has submitted chapter 5. ~~Chapter~~  
(With specific Date/Tenure) The scholar has submitted chapter ~~5~~ 3 but is currently  
modifying it due to the present developments and is also working on chapter 6  
titled Protests and Non Movements in respect of NRC and CAA : National Reactions.
8. Comments of the members of RAC:
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee:

*[Signature]*

2. Signature of the External Expert:

*[Signature]* Sunil Mukherjee

3. Signature of the Members:

*[Signature]*

4. Signature of the Supervisor(s):

*[Signature]*

## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore - 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from 16/08/2023 to 18/09/2024.

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : DEEDHITI DATTA
2. Name of Supervisor(s) : Prof. Sibaji Pratima Basu
3. Date of Registration for Ph.D. Degree : 13/01/2020
4. Title of Research Work : .....

The National Regula of Citizens and the Indian State: A Study  
in the Politics of Exception

5. Details in respect of Research work carried out during the above mentioned period :

Recently, the research scholar has submitted chapter 5. The  
scholar is currently working on chapter 6 titled:  
Protest and Mass Movements in respect of NRC and CAA:  
National Reactions.

Yours sincerely,

Deedhiti Datta

Signature of the Research Scholar

Comments of the Supervisor(s) :

The candidate has almost completed her work.  
Her performance in RAE is quite satisfactory

Spm  
18/04/24



PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from 16.8.2023 to 18.04.2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Debarati Biswas
2. Name of Supervisor(s) : Sibaji Pratim Basu
3. Date of Registration for Ph.D. Degree : 10.12.2018
4. Title of Research Work : .....

"Refugees and the state in west Bengal:  
Revisiting Marichjhapi (1978 - 1979)"

5. Details in respect of Research work carried out during the above mentioned period :

Going some places for field work  
and wrote some 2 chapter's.

Yours sincerely,

Debarati Biswas

Signature of the Research Scholar

Comments of the Supervisor(s) :

The candidate has almost completed her work and  
her performance in RAC is quite satisfactory.

SPB  
18/04/24

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from 16.08.2023 to 18.04.2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Debarati Biswas
2. Name of Supervisor(s) : Sibaji Pratim Basu
3. Date of Registration for Ph.D. Degree : 10.12.2018
4. Title of Research Work : "Refugees and the state in West Bengal: Revisiting Marichjhapi (1978-1979)"
5. Details in respect of Research work carried out during the above mentioned period:  
Going some places for field work, and took some interviews, and wrote some 2 chapters.

Yours Sincerely,

Debarati Biswas

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☒ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

[Signature]  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐





Comments, if any:

[Signature]  
Signature

### Report of the Meeting of RAC

1. Name of the Candidate: Debarati Biswas
2. Name of the Department: Political Science
3. Title of the Thesis: 'Refugees and the state in west Bengal: Revisiting Marichjhapi (1978-1979)'
4. Registration No with date & year: 124 / 10.12.2018
5. Name of the Supervisor(s): Siba Prati Basu
6. Date of Meeting of RAC: 18.04.2024
7. Progress of Research Work: I have done my 4th chapter and with this I took some interviews of the peoples, related with the topic in the specific time period of (16.8.23-18.04.24)  
(With specific Date/Tenure)
8. Comments of the members of RAC:
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: 
2. Signature of the External Expert:  Debi Chatterjee
3. Signature of the Members: 
4. Signature of the Supervisor(s): 

## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in POLITICAL SCIENCE  
for the period from 16/08/2023 to 18/04/2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : JOYDEV BARMAN
2. Name of Supervisor(s) : DR. EYASIN KHAN
3. Date of Registration for Ph.D. Degree : 27/09/2022
4. Title of Research Work : .....

UNDERSTANDING THE KURMI MOVEMENT IN JUNGLE MAHA  
AREA OF WEST BENGAL: THE QUEST FOR IDENTITY

5. Details in respect of Research work carried out during the above mentioned period :

PRESENTED TWO RESEARCH PAPER RELATED TO  
MY TOPIC IN TWO INTERNATIONAL SEMINAR AND DEVEL  
-PED THE SECOND CHAPTER OF MY THESIS.

Yours sincerely,

Joydev Barman  
Signature of the Research Scholar

Comments of the Supervisor(s) :

Work in progress

Eyasin Khan

Assistant Professor  
Department of Political Science  
Vidyasagar University



YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in POLITICAL SCIENCE  
For the period from 16/08/2023 to 18/4/24

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : JOYDEV BARMAN
2. Name of Supervisor(s) : DR. EYASIN KHAN
3. Date of Registration for Ph.D. Degree : 27/09/22
4. Title of Research Work : UNDERSTANDING THE KURMI MOVEMENT IN JUNGLE MAHAL AREA OF WEST BENGAL: THE QUEST FOR IDENTITY
5. Details in respect of Research work carried out during the above mentioned period:  
PRESENTED TWO PAPER IN TWO INTERNATIONAL SEMINAR AND DEVELOPED THE SECOND CHAPTER OF MY THESIS


Yours Sincerely,

  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

  
Signature of the Supervisor (s)

Assistant Professor  
Department of Political Science  
Vidyasagar University

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

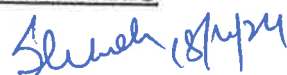

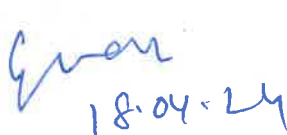
Comments, if any:

Signature

### Report of the Meeting of RAC

1. Name of the Candidate: JOYDEV BARMAN
2. Name of the Department: POLITICAL SCIENCE
3. Title of the Thesis: UNDERSTANDING THE KURMI MOVEMENT IN JUNGLE MAHAL AREA OF WEST BENGAL: THE QUEST FOR IDENTITY
4. Registration No with date & year: 790 , 27/09/2022
5. Name of the Supervisor(s): DR. EYASIN KHAN
6. Date of Meeting of RAC: 18/04/2024
7. Progress of Research Work: PRESENTED TWO PAPER IN TWO INTERNATIONAL SEMINAR AND DEVELOPED SECOND CHAPTER OF MY THESIS.  
(With specific Date/Tenure)
8. Comments of the members of RAC:
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee:  18/4/24
2. Signature of the External Expert:  18/4/24
3. Signature of the Members: S. Bhattacharya
4. Signature of the Supervisor(s):  18.04.24

Report of the Meeting of RAC

1. Name of the Candidate: **OINDRILA BHATTACHARJEE**
2. Name of the Department: **POLITICAL SCIENCE**
3. Title of the Thesis: *Assessing Femvertising in Contemporary India: change and continuity in The Portrayal of women in select categories of Advertisement since 2000.*
4. Registration No with date & year: **No- 1070, Date: 16/08/2023**
5. Name of the Supervisor(s): **Dr. Sujay Ghosh**
6. Date of Meeting of RAC: **06/03/2024**
7. Progress of Research Work: **16/08/2023 - 29/02/2024**  
(With specific Date/Tenure) *I have almost finished with my first chapter, which is the Introduction chapter of my thesis.*
8. Comments of the members of RAC:
9. Specific Suggestion if any: *You need to concentrate on 'Intersectionality'.*
10. Remarks:  
(Separate sheets may be used if necessary)

Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: *Shukh*
2. Signature of the External Expert: *J. K. [Signature]*  
**06/03/24**
3. Signature of the Members: *S. Bhattacharya*
4. Signature of the Supervisor(s): *Shukh*



YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from August 2023 to February 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : OINDRILA BHATTACHARJEE
2. Name of Supervisor(s) : Dr. Sujay Ghosh
3. Date of Registration for Ph.D. Degree : 16.08.2023
4. Title of Research Work : Assessing Advertising in Contemporary India: Change and Continuity in the Portrayal of Women in Select Categories of Advertisement Since 2000
5. Details in respect of Research work carried out during the above mentioned period:  
I have almost finished with my first chapter, which is the Introduction chapter of my thesis.

Yours Sincerely,

Oindrila Bhattacharjee  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

Sush  
Signature of the Supervisor  
Associate Professor  
Dept. of Political Science  
VIDYASAGAR UNIVERSITY

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in ..... *Political Science*  
for the period from ..... *August 2023* ..... to ..... *February 2024*

Sir,  
I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : *Chandrika Bhattacharjee*
2. Name of Supervisor(s) : *Dr. Sujay Ghosh*
3. Date of Registration for Ph.D. Degree : *16.08.2023*
4. Title of Research Work : *Assessing Femvertising in*

*Contemporary India: Change and Continuity in The Portrayal of Women in Select Categories of Advertisement Since 2000.*

5. Details in respect of Research work carried out during the above mentioned period :

*During this period of time I was occupied with extensive literature review for my research work. Along with this I have almost finished with my first chapter, which is the introduction chapter of my thesis. Currently working on referencing and editing for this chapter.*

Yours sincerely,

*Chandrika Bhattacharjee*  
Signature of the Research Scholar

Comments of the Supervisor(s) :

*Progress is satisfactory*  
*Sujay*

Associate Professor  
Dept. of Political Science  
VIDYASAGAR UNIVERSITY  
Midnapore-721102, W. B

Report of the Meeting of RAC

1. Name of the Candidate: NIBEDITA SAMANTA
2. Name of the Department: POLITICAL SCIENCE
3. Title of the Thesis: "SOCIO-ECONOMIC AND POLITICAL STATUS OF THE KHOTTA-SPEAKING MUSLIMS IN CONTEMPORARY WEST BENGAL"
4. Registration No with date & year: NO-1068 Date - 16.08.23
5. Name of the Supervisor(s): DR. EYASIN KHAN
6. Date of Meeting of RAC: 06.03.24
7. Progress of Research Work: Review Literature on going  
(With specific Date/Tenure)


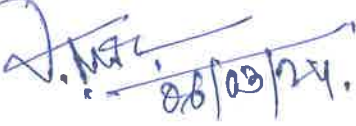


8. Comments of the members of RAC:  
Candidate has been asked to read more literatures. It is inadequate as of now. She is asked to prepare a research design.

9. Specific Suggestion if any:

10. Remarks:

(Separate sheets may be used if necessary)

Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: 
2. Signature of the External Expert:   
06/03/24.
3. Signature of the Members: 
4. Signature of the Supervisor(s): 

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in POLITICAL SCIENCE  
For the period from 16.08.23 to 06.03.2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : NIBEDITA SAMANTA
2. Name of Supervisor(s) : DR. EVASIN KHAN
3. Date of Registration for Ph.D. Degree :
4. Title of Research Work : "SOCIO-ECONOMIC AND POLITICAL STATUS OF THE KHOTTA-SPEAKING MUSLIMS IN CONTEMPORARY WEST BENGAL"
5. Details in respect of Research work carried out during the above mentioned period: WEST BENGAL

Yours Sincerely,

Nibedita Samanta

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

En  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature



## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore - 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in POLITICAL SCIENCE  
for the period from 16.08.23 to 06.03.2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : NIBEDITA SAMANTA  
2. Name of Supervisor(s) : DR. EYASIN KHAN

3. Date of Registration for Ph.D. Degree :

4. Title of Research Work : "SOCIO-ECONOMIC AND POLITICAL  
STATUS OF THE KHOTTA-SPEAKING MUSLIMS IN  
CONTEMPORARY WEST BENGAL"

5. Details in respect of Research work carried out during the above mentioned period :

.....  
.....  
.....  
.....  
.....

Yours sincerely,

Nibedita Samanta

Signature of the Research Scholar





Comments of the Supervisor(s) :

Work Satisfactory,  
Ghan

### Report of the Meeting of RAC

1. Name of the Candidate: LABONI BAGI
2. Name of the Department: POLITICAL SCIENCE
3. Title of the Thesis: A STUDY OF MATUA MAHASANGHA : POLITICAL ORGANISATION AND MOBILISATION OF THE NAMASUDRA'S SINCE 2003.
4. Registration No with date & year: NO- 1071 , Date - 16.08.2023
5. Name of the Supervisor(s): Dr. SUJAY GHOSH
6. Date of Meeting of RAC:
7. Progress of Research Work: Reading existing literatures and clearing my concept on research methodology  
(With specific Date/Tenure)
8. Comments of the members of RAC:
9. Specific Suggestion if any: Refer to some recent literature (esp last 2 years) on the Matua Community. Identify the Research Gap. Read the relevant book on research method.
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: 
2. Signature of the External Expert:   
08/03/24
3. Signature of the Members: 
4. Signature of the Supervisor(s): 

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in ..... POLITICAL SCIENCE  
For the period from ..... 16.08.2023 .. to 06.03.2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : LABONI BAG
2. Name of Supervisor(s) : DR. SUSAY GHOSH
3. Date of Registration for Ph.D. Degree : 16.08.2023
4. Title of Research Work : A STUDY OF MAIVA MAHASANGHA : POLITICAL ORGANISATION AND MOBILISATION OF THE NAMASUDRA'S SINCE 2003
5. Details in respect of Research work carried out during the above mentioned period:  
.....  
.....

Yours Sincerely,

Laboni Bag  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
1. General intelligence & keenness to learn:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
2. Initiative, Drive and Resourcefulness:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
3. Quality of Research Work:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
4. Willingness to shoulder additional responsibility and put in extra efforts:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
5. Punctuality in attendance:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
6. Amenability to discipline:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
8. Overall Grading:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
Any other comment of the Supervisor(s):  <u>Shishu</u> ..... Signature of the Supervisor(s) Associate Professor Dept. of Political Science VIDYASAGAR UNIVERSITY Midnapore 721102, W.B.	
Counter signed by the Dean of the concerned Faculty	

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature



## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in ..... POLITICAL SCIENCE  
for the period from ..... 16.08.2023 to ..... 06.03.2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : LABONI BAG
2. Name of Supervisor(s) : DR. SUJAY GHOSH
3. Date of Registration for Ph.D. Degree : 16.08.2023
4. Title of Research Work : A STUDY OF MATUA

MAHASANGHA : POLITICAL ORGANISATION AND MOBILISATION  
OF THE NAMASUDRAS SINCE 2003

5. Details in respect of Research work carried out during the above mentioned period :

Started consulting the relevant literature

*Progress is satisfactory.*

*Shuchi*

Comments of the Supervisor(s) :

**Associate Professor**  
**Dept. of Political Science**  
**VIDYASAGAR UNIVERSITY**  
**Midnapore-721102, W. B.**

Yours sincerely,

Laboni Bag  
Signature of the Research Scholar

### Report of the Meeting of RAC

1. Name of the Candidate: **SADDAM HUSSAIN**
2. Name of the Department: **POLITICAL SCIENCE**
3. Title of the Thesis: **CLASH of interests in the Indian Ocean Region in the 21<sup>st</sup> century: ~~An~~ <sup>The</sup> Indian perspective**
4. Registration No with date & year: **1067/PHD/ARTS** Dated: **11/09/2023**
5. Name of the Supervisor(s): **DR. SUJAY GHOSH** - **16/08/2023**
6. Date of Meeting of RAC: **06/03/2024**
7. Progress of Research Work:  
(With specific Date/Tenure) **16/08/2023-29/02/2024**
8. Comments of the members of RAC:
9. Specific Suggestion if any: **Need to make the topic focused**
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: **Shree**
2. Signature of the External Expert: **S. Ghosh**  
**06/03/24.**
3. Signature of the Members: **S. Bhattacharya**
4. Signature of the Supervisor(s): **Shree**

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from August 2023 to February 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SADDAM HUSSAIN
2. Name of Supervisor(s) : DR. SUJAY GHOSH
3. Date of Registration for Ph.D. Degree : 16.08.2023
4. Title of Research Work : 'Clash of Interests' in the Indian Ocean Region in the 21st Century: The Indian perspective
5. Details in respect of Research work carried out during the above mentioned period:  
I have visited National Maritime Foundation, New Delhi, and ORF, New Delhi, to read and analyse the hypothesis to analytically frame my first chapter of this.

Yours Sincerely,

Saddam Hussain  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☐ Fair ☒ Poor ☐
6. Amenability to discipline:  
Good ☐ Fair ☒ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☐ Fair ☒ Poor ☐

Any other comment of the Supervisor(s):

Sujay Ghosh  
Associate Professor  
Dept. of Political Science  
VIDYASAGAR UNIVERSITY  
Midnapore - 721 102, W. B.

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Midnapore - 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from August 2023 to February 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SADDAM HUSSAIN
2. Name of Supervisor(s) : DR. SUJAY GHOSH
3. Date of Registration for Ph.D. Degree : 16/08/2023
4. Title of Research Work : .....

'Clash of Interests' in The Indian Ocean Region in the 21st century: The Indian Perspective

5. Details in respect of Research work carried out during the above mentioned period :

This duration of my research work is extensively focused on the literature review and in this regard I have visited NAI and NRI - New Delhi. During this visit I have discussed and enriched by comments of NRI veterans and the available literature of the think tank library.

Yours sincerely,

Signature of the Research Scholar

Saddam Hussain

Comments of the Supervisor(s) :

He needs to show some concrete works at this stage.


Sush  
Associate Professor  
Dept. of Political Science  
VIDYASAGAR UNIVERSITY  
Midnapore-721102, W. B





### Report of the Meeting of RAC


1. Name of the Candidate: **BITOY MANDAL**
2. Name of the Department: **POLITICAL SCIENCE**
3. Title of the Thesis: **CONSTRUCTING POLITICAL CULTURE: REVISITING THE GREAT BENGAL FAMINE (1943)**
4. Registration No with date & year: **192/Ph.D. (Arts), 13-01-2020**
5. Name of the Supervisor(s): **Dr. SUJAY GHOSH**
6. Date of Meeting of RAC: **06-03-2024**
7. Progress of Research Work: **from Sept '23 to February 2024, I have completed my field study and continue to writing to the next chapter, i.e., 4th chapter.**  
(With specific Date/Tenure)
8. Comments of the members of RAC: **~~Political culture~~  
I have read theoretical works on political culture.**
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: 

2. Signature of the External Expert: 

3. Signature of the Members: 

4. Signature of the Supervisor(s): 

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from Sept '23 to February '24

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : BIJOY MANDAL
2. Name of Supervisor(s) : DR. SUJAY GHOSH
3. Date of Registration for Ph.D. Degree : 13-01-2020
4. Title of Research Work : Constructing Political Culture: Revisiting the Great Bengal Famine (1943)
5. Details in respect of Research work carried out during the above mentioned period:  
A Comprehensive Field Study done by me and the next chapter continue to be writing.

Yours Sincerely,

Bijoy Mandal  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☒ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

Sush  
Associate Professor  
Dept. of Political Science  
VIDYASAGAR UNIVERSITY  
Midnapore - 721 102, W.B.

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from Sept. '23 to February 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : BIJOY MANDAL
2. Name of Supervisor(s) : DR. SUJAY GHOSH
3. Date of Registration for Ph.D. Degree : 13-01-2020
4. Title of Research Work : Constructing Political  
Culture! Revisiting The Great Bengal Famine (1943)

5. Details in respect of Research work carried out during the above mentioned period :

A Comprehensive field study has been  
done among those persons who are witnesses of the  
Great Famine of Bengal (1943). I visited various  
districts such as Gorkh in East Midnapore  
and so on. And I would continue to  
write my next chapter, as i.e. 4th chapter

Yours sincerely,

Bijoy Mandal  
Signature of the Research Scholar

Comments of the Supervisor(s) :

Progress is satisfactory.

Shub

Associate Professor  
Dept. of Political Science  
VIDYASAGAR UNIVERSITY  
Midnapore-721102, W. B.



### Report of the Meeting of RAC

1. Name of the Candidate: *Sirin Sarwar*
2. Name of the Department: *Political Science*
3. Title of the Thesis: *Human Rights and Muslim women in India: A case study in two districts of West Bengal*
4. Registration No with date & year: *155 / 13.01.2020*
5. Name of the Supervisor(s): *Dr. Eragin Khan*
6. Date of Meeting of RAC: *6.03.2024*
7. Progress of Research Work:  
(With specific Date/Tenure) *Working on Chapter 3rd and make the connection with previous chapters with it.*
8. Comments of the members of RAC:  
*Data to be collected in the next six months. Questionnaire is to be prepared after determining parameters.*
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: *Shubh*
2. Signature of the External Expert: *Seli Chatterjee 6.3.24*
3. Signature of the Members: *Sh*
4. Signature of the Supervisor(s): *E Khan*

PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Mirzapore - 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political science  
for the period from 16.08.23 to 06.03.24

Sir,  
I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Sirin Sarwar
2. Name of Supervisor(s) : Dr Eyasim Khan
3. Date of Registration for Ph.D. Degree : 13.01.2020
4. Title of Research Work : .....

Human Rights and Muslim Women  
In India: A Case study in two  
districts of West Bengal.

5. Details in respect of Research work carried out during the above mentioned period :  
Work related to chapter 3rd  
Developing the conceptual  
clarity and working on  
Research area related literature.

Yours sincerely,

Sirin Sarwar  
Signature of the Research Scholar

Comments of the Supervisor(s) :

Work Satisfactory  
Ghan

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from 16.08.23 to 06.03.24

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Sirin Sarwar
2. Name of Supervisor(s) : Dr. EYASIN Khan
3. Date of Registration for Ph.D. Degree : 13.01.2020
4. Title of Research Work : Human Rights and Muslim Women in India: A Case Study in two Districts of West Bengal
5. Details in respect of Research work carried out during the above mentioned period:  
working on chapter 3rd and recharging the format of other chapters as well

Yours Sincerely,

Sirin Sarwar

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

[Signature]  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

### Report of the Meeting of RAC

1. Name of the Candidate: *AANKITA GANGULY*
2. Name of the Department: *POLITICAL SCIENCE*
3. Title of the Thesis: *Human Security in the post Cold war years : An Indian Perspective.*
4. Registration No with date & year: *835/Ph.D/Arts*  
*Date :- 13.01.2020.*
5. Name of the Supervisor(s): *(i) Dr. Raj Kumar Kothari*  
*(ii) Dr. Eyasir Khan.*
6. Date of Meeting of RAC: *06/09/2024*
7. Progress of Research Work:  
(With specific Date/Tenure)
8. Comments of the members of RAC:  
*The candidate will write the fourth chapter of her thesis and will analyse UN documents.*
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: *Shah*
2. Signature of the External Expert: *Dr. Chattop 6.3.24.*
3. Signature of the Members: *Shuk*
4. Signature of the Supervisor(s): *Gan*



## PROGRESS REPORT OF THE RESEARCH SCHOLAR

The Registrar  
Vidyasagar University  
Midnapore - 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in .....

for the period from August 2023 to February 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : AANKITA GANGULY
2. Name of Supervisor(s) : Dr. RAJ KUMAR KOTHARI  
Dr. EYASIN KHAN
3. Date of Registration for Ph.D. Degree : ~~02.03.2020~~ 13.01.2020
4. Title of Research Work : .....

HUMAN SECURITY IN THE POST COLD WAR YEARS: AN INDIAN PERSPECTIVE

5. Details in respect of Research work carried out during the above mentioned period :

The candidate has tried to pursue this research to uphold the multifaceted challenges of human security in India with special reference to climate change. The data collection process involved rigorous review of literature, academic articles, policy documents & interviews of select experts. The candidate is currently working on the 4th chapter of the thesis.

Yours sincerely,

Aankita Ganguly  
Signature of the Research Scholar

Comments of the Supervisor(s) :

Work Satisfactory.

Gan

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore – 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Arts  
For the period from ..... to .....

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Aankita Ganguly
2. Name of Supervisor(s) : (i) Dr. Raj Kumar Kothari  
(ii) Dr. Eyasir Khan
3. Date of Registration for Ph.D. Degree : 13.01.2020
4. Title of Research Work : Human Security in the Post Cold War Years: An Indian Perspective
5. Details in respect of Research work carried out during the above mentioned period:

*The candidate I have tried to pursue a multifaceted research on human security in India with special reference to climate changes. Currently I am working on the four chapters of the thesis.*

Yours Sincerely,

Aankita Ganguly

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
1. General intelligence & keenness to learn:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
2. Initiative, Drive and Resourcefulness:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
3. Quality of Research Work:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
4. Willingness to shoulder additional responsibility and put in extra efforts:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
5. Punctuality in attendance:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
6. Amenability to discipline:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
8. Overall Grading:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
Any other comment of the Supervisor(s):  <div align="center"><u><i>[Signature]</i></u> Signature of the Supervisor (s)</div>	
Counter signed by the Dean of the concerned Faculty	

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐


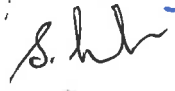

Comments, if any:

Signature

Report of the Meeting of RAC

1. Name of the Candidate: MADHUBANTI GANGULY
2. Name of the Department: POLITICAL SCIENCE
3. Title of the Thesis: "Regional connectivity in South Asia since 1990s  
the Indian perspective".
4. Registration No with date & year: 337 / 27.04.2021
5. Name of the Supervisor(s): Prof. Rajkumar Kothari & Dr. Eytan Khan
6. Date of Meeting of RAC:
7. Progress of Research Work: The draft of the 1st chapter has  
(With specific Date/Tenure) completed and now working on the  
2nd chapter.
8. Comments of the members of RAC: Comparative analysis may be  
undertaken in consultation with  
the supervisor.
9. Specific Suggestion if any:
10. Remarks: Satisfactory performance  
(Separate sheets may be used if necessary)

Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: 
2. Signature of the External Expert: 
3. Signature of the Members: Swatisha Bhattacharya 6.3.24
4. Signature of the Supervisor(s): 



YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from August to February

Sir,


I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Madhubanti Ganguly
2. Name of Supervisor(s) : Prof. Paikumar Kothari & Dr. Eyasir Khan
3. Date of Registration for Ph.D. Degree : 27/04/2021
4. Title of Research Work : Regional Connectivity in South Asia since 19
5. Details in respect of Research work carried out during the above mentioned period: The Indian Perspective

The draft of the 1st chapter has completed and now working on the 2nd chapter.

Yours Sincerely,

Madhubanti Ganguly  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
1. General intelligence & keenness to learn:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
2. Initiative, Drive and Resourcefulness:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
3. Quality of Research Work:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
4. Willingness to shoulder additional responsibility and put in extra efforts:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
5. Punctuality in attendance:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
6. Amenability to discipline:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
8. Overall Grading:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
Any other comment of the Supervisor(s):	
<div style="text-align: center;"> Signature of the Supervisor (s)</div>	
<div style="text-align: center;">Counter signed by the Dean of the concerned Faculty</div>	

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore - 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from August to February

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : Madhubanti Ganguly
2. Name of Supervisor(s) : Prof. Raikumar Kothari & Dr. Eyasi Khan
3. Date of Registration for Ph.D. Degree : 27/04/2021
4. Title of Research Work : Regional connectivity in South

Asia since 1990s : The Indian Perspective

5. Details in respect of Research work carried out during the above mentioned period :

The researcher has reviewed several  
books and articles and visited  
many libraries and written the drafts  
of 1st chapter and currently working on the  
2nd chapter.

Yours sincerely,

Madhubanti Ganguly  
Signature of the Research Scholar

Comments of the Supervisor(s) :

work in progress  
Gan

### Report of the Meeting of RAC

1. Name of the Candidate: MANOJ SHYAHAL
2. Name of the Department: POLITICAL SCIENCE
3. Title of the Thesis: Livelihood and Environmental issues among the Fishersfolk in Purba Medinipur and South 24 Parganas in West Bengal.
4. Registration No with date & year: 1066 / 16-08-2023
5. Name of the Supervisor(s): DR. SUJAY GHOSH
6. Date of Meeting of RAC: 06/03/2024
7. Progress of Research Work: 16/08/2023 - 29/02/2024  
(With specific Date/Tenure)  
Draft of first chapter has been done and field study is also going on. Also presented a paper in International Conference.
8. Comments of the members of RAC:
9. Specific Suggestion if any: Read some books on Research Methodology. Have the elementary understanding.
10. Remarks:  
(Separate sheets may be used if necessary)

### Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: Shreeh
2. Signature of the External Expert: A. K. S. 06/03/24
3. Signature of the Members: Man
4. Signature of the Supervisor(s): Shreeh

## YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from August - 2023 to February - 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : MANOJ SHYAMAL
2. Name of Supervisor(s) : DR. SUJAY GHOSH
3. Date of Registration for Ph.D. Degree : 16/08/2023
4. Title of Research Work : Livelihood and Environmental Issues among the Fishermen in Purba Medinipur and South 24 Parganas in West Bengal
5. Details in respect of Research work carried out during the above mentioned period:  
Draft of first Chapter has been done and Presented a Paper in International Conference. Also field Study is going on.

Yours Sincerely,

Manoj Shyamal  
Signature of the Research Scholar

### Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

[Signature]  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

### Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

[Signature]  
Signature



PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science

for the period from August-2023 to February-2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : MANOJ SHYAMAL
2. Name of Supervisor(s) : DR. SUJAY GHOSH
3. Date of Registration for Ph.D. Degree : 16/08/2023
4. Title of Research Work : .....

Livelihood and Environmental issues among  
the Fishersfolk in Purba Medinipur and South 24 Parganas  
in West Bengal.

5. Details in respect of Research work carried out during the above mentioned period :

→ First Chapter draft has been ready.  
→ Field Study is going.  
→ Presented a Paper in International  
Conference.

Progress is satisfactory.

Shubh 6/5/24

Comments of the Supervisor(s) :

Asst. Professor  
Dept. of Political Science  
VIDYASAGAR UNIVERSITY  
Midnapore-721102, W. B.

Yours sincerely,

Manoj Shyamal

Signature of the Research Scholar

## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from 16/08/23 to 18 April 2024

Sir,  
I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SUFAL BEPARI
2. Name of Supervisor(s) : DR. SWATILEKHA BHATTACHARYA
3. Date of Registration for Ph.D. Degree : 27/09/2022
4. Title of Research Work : .....

TRIBAL WOMEN IN THE HINDU NATIONALIST  
DISCOURSE : A CASE STUDY OF THE SUNDARBANS OF  
WEST BENGAL

5. Details in respect of Research work carried out during the above mentioned period :

Conducted Interviews; Collected Local Literatures;  
Collected Archival data; Visited Libraries;  
Participated in Seminars; Published Papers

Yours sincerely,

Sufal Bepari  
Signature of the Research Scholar

Comments of the Supervisor(s) :

Progress satisfactory.  
S. Bhattacharya  
Department of Political Science  
Vidyasagar University  
Midnapore-721 102, WB.

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from 16/08/23 to 18/04/24

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SUFAL BEPARI
2. Name of Supervisor(s) : DR. SWATILAKSHA BHATTACHARYA
3. Date of Registration for Ph.D. Degree : 27/09/2022
4. Title of Research Work : Tribal Women in the Hindu Nationalist Discourse: A case study of the Sundarbans of West Bengal.
5. Details in respect of Research work carried out during the above mentioned period: Wrote chapters; conducted Interviews; collected various primary materials; attended seminars; published paper.

Yours Sincerely,

Sufal Bepari  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☐ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☐ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☐ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

S. Bhattacharya

Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature



Report of the Meeting of RAC

1. Name of the Candidate: SUFAL BEPARI
2. Name of the Department: POLITICAL SCIENCE
3. Title of the Thesis: TRIBAL WOMEN IN THE HINDU NATIONALIST DISCOURSE: A CASE STUDY OF THE SUNDARBANS OF WEST BENGAL
4. Registration No with date & year: 899 / Ph.D. / Arts (27/09/2022)
5. Name of the Supervisor(s): DR. SWATILEKHA BHATTACHARYA
6. Date of Meeting of RAC: 18/04/2024
7. Progress of Research Work: 16/08/2023 to 18/04/2023  
(With specific Date/Tenure)
8. Comments of the members of RAC:
9. Specific Suggestion if any:
10. Remarks:  
(Separate sheets may be used if necessary)

Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: [Signature] 18/4/24
2. Signature of the External Expert: [Signature] 18/4/24
3. Signature of the Members: [Signature]
4. Signature of the Supervisor(s): S. Bhattacharya

PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in ..... POLITICAL SCIENCE  
for the period from ... 16/08/2023 to ... 18/04/2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : NOWDINI RAY
2. Name of Supervisor(s) : PROF. SIBASI PRATIM BASU
3. Date of Registration for Ph.D. Degree : 31/08/2017
4. Title of Research Work : RISE AND FALL OF POLITICAL  
PARTIES IN THE POST INDEPENDENCE ERA: CASE STUDIES OF LSS,  
KNRP, PSP AND  
SSP

5. Details in respect of Research work carried out during the above mentioned period :

THIS PERIOD I DEVELOP MY  
CHAPTERISATION

Yours sincerely,

Nowdini Ray  
Signature of the Research Scholar

Comments of the Supervisor(s) :

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in ..... POLITICAL SCIENCE  
For the period from .. 16/08/2023 to ..... 18/04/2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : MONDINI RAY
2. Name of Supervisor(s) : Prof. SIBAJI PRATIM BASU
3. Date of Registration for Ph.D. Degree : 31/08/2017
4. Title of Research Work : RISE AND FALL OF INDIAN POLITICAL PARTIES IN THE POST-INDEPENDENCE ERA: CASE STUDIES OF LSS, KHPP, PSP AND SSP
5. Details in respect of Research work carried out during the above mentioned period:  
THIS PERIOD I DEVELOP MY CHARACTERISATION

Yours Sincerely,

Mondini Ray

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☐ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☐ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☐ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

.....  
Signature of the Supervisor (s)

.....  
Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

Report of the Meeting of RAC

1. Name of the Candidate: **NONDINI RAY**
2. Name of the Department: **POLITICAL SCIENCE**
3. Title of the Thesis: **RISE AND FALL OF POLITICAL PARTIES IN THE POST-INDEPENDENCE ERA: CASE STUDIES OF LSS, KMPP, PSP AND SSP**
4. Registration No with date & year: **1266 / Ph.D. (ARTS) 14/12/2022**
5. Name of the Supervisor(s): **PROF. SIBAS, PRATIM BASU**
6. Date of Meeting of RAC: **18/04/2024**
7. Progress of Research Work:  
(With specific Date/Tenure) **THIS PERIOD I DEVELOP MY CHAPTERISATION**
8. Comments of the members of RAC: **Change of Title is proposed.**
9. Specific Suggestion if any: **Rise and Fall of Gandhian Political Parties in Post-Independent India: A Case-Study of Lok Sevak Sangha in West Bengal.**
10. Remarks:  
(Separate sheets may be used if necessary)

Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: **Shubho 18/4/24**
2. Signature of the External Expert: **Shubho 18/4/24**
3. Signature of the Members: **Sh**
4. Signature of the Supervisor(s): **SPB 18/4/24**

Report of the Meeting of RAC


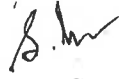

1. Name of the Candidate: Sanika Banerjee
2. Name of the Department: Political Science
3. Title of the Thesis: A study of Riverine changes and Humanitarian crisis in the chars of Malda and Murshidabad
4. Registration No with date & year: 336 / 27.04.2021
5. Name of the Supervisor(s): Swatilekha Bhattacharya
6. Date of Meeting of RAC:
7. Progress of Research Work: Sept 2023 to Feb-2024  
(With specific Date/Tenure)  
Did my Third chapter and Preparing for 2nd field visit.

8. Comments of the members of RAC:  
Work is satisfactory. She will submit fourth chapter in the next few months. Candidate should read ~~at~~ at least two theses on the topic and one relevant book on research methodology.
9. Specific Suggestion if any:

10. Remarks:

(Separate sheets may be used if necessary)

Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: 
2. Signature of the External Expert: 
3. Signature of the Members: 
4. Signature of the Supervisor(s): S. Bhattacharya



YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from Sept. 2023 to Feb 2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SANIKA BANERJEE
2. Name of Supervisor(s) : SWATILEKHA BHATTACHARYA
3. Date of Registration for Ph.D. Degree : 27.04.2021
4. Title of Research Work : A study of Greening changes and Humanitarian crisis in the chars of Malda and Murshidabad
5. Details in respect of Research work carried out during the above mentioned period:  
I have completed my 2nd chapter and preparing for my second field visit.

Yours Sincerely,

Sanika Banerjee  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

Swatilekha Bhattacharya  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

## PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore - 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in ... Political Science .....  
for the period from ... Sept 2023 ... to ... Feb 2024 .....

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SANJKA BANERJEE
2. Name of Supervisor(s) : SWATILEKHA BHATTACHARYA
3. Date of Registration for Ph.D. Degree : 27.04.2021
4. Title of Research Work : .....

A Study of Riverine Changes and Humanitarian  
crisis in the Chars of Malda and Murshidabad.

5. Details in respect of Research work carried out during the above mentioned period :

I have completed writing my third  
chapter and currently preparing for my  
second field visit.

Yours sincerely,

Signature of the Research Scholar

Comments of the Supervisor(s) :

Work is satisfactory  
S. Bhattacharya



Report of the Meeting of RAC

1. Name of the Candidate: **INDRAJIT SAMANTA**
2. Name of the Department: **Political Science**
3. Title of the Thesis: **Cooperatives and Sustainable Livelihoods.  
A study in the Coastal Areas of Purba Medinipur  
and 24 Parganas (South), West Bengal**
4. Registration No with date & year: **27-09-2022 - 4901**
5. Name of the Supervisor(s): **Dr. Sujay Ghosh.**
6. Date of Meeting of RAC: **06-03-2024**
7. Progress of Research Work: **14-8-23 to 5-3-24 chapterisation  
(With specific Date/Tenure) and field work and presentation  
International Conference**
8. Comments of the members of RAC:
9. Specific Suggestion if any: **Methods of data analysis must be clearly  
established**
10. Remarks:  
(Separate sheets may be used if necessary)

Signature of the Members of RAC

1. Signature of the Secretary, Ph.D. Committee: **[Signature]**
2. Signature of the External Expert: **S. Chatterjee 6.3.24**
3. Signature of the Members: **[Signature]**
4. Signature of the Supervisor(s): **[Signature]**

PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University  
Midnapore – 721 102  
West Bengal, India

Sub. : Progress report for the Ph.D. Programme in Political Science  
for the period from 16-8-23 to 6-3-24

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : INDRAJIT SAMANTA
2. Name of Supervisor(s) : Dr. Sujay Ghosh
3. Date of Registration for Ph.D. Degree : 27-09-2022
4. Title of Research Work : Cooperatives and Sustainable

Livelihood: A study in the Coastal Areas of  
Purba Medinipur and 24 Parganas (South), West Bengal

5. Details in respect of Research work carried out during the above mentioned period :

Field work, written characterisation and  
paper presented 'International Conference  
(18-1-2024 - 19-1-2024)

Yours sincerely,

Indrajit Samanta  
Signature of the Research Scholar

Shree 6/3/24  
Associate Professor  
Comments of the Supervisor(s):  
Dept. of Political Science  
VIDYASAGAR UNIVERSITY  
Progress satisfactory

YEARLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in Political Science  
For the period from 16-8-23 to 6-3-24


Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : INDRAJIT SAMANTA
2. Name of Supervisor(s) : Dr. Sujay Ghosh
3. Date of Registration for Ph.D. Degree : 27-09-2022
4. Title of Research Work : Cooperatives and Sustainable Livelihood: A Study in the Coastal Area of Purba Medinipur and 24 parganas (Gath), West Bengal
5. Details in respect of Research work carried out during the above mentioned period: attended international conference, field work and writing chapter 1st

Yours Sincerely,

Indrajit Samanta  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
1. General intelligence & keenness to learn:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
2. Initiative, Drive and Resourcefulness:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
3. Quality of Research Work:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
4. Willingness to shoulder additional responsibility and put in extra efforts:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
5. Punctuality in attendance:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
6. Amenability to discipline:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
8. Overall Grading:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
Any other comment of the Supervisor(s):	
<div style="text-align: center;"> Signature of the Supervisor(s) <div style="border: 1px solid black; padding: 2px; display: inline-block;">ASSISTANT PROFESSOR DEPARTMENT OF POLITICAL SCIENCE VIDYASAGAR UNIVERSITY MIDNAPORE-721102, W. B.</div></div>	
Counter signed by the Dean of the concerned Faculty	

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

**VIDYASAGAR UNIVERSITY  
MIDNAPORE**

**Sanskrit**

**Report of the meeting of the R.A.C.**

1. Name of the Candidate/Scholar : Shasanka Shekhar Patra
2. Name of the Department : Sanskrit
3. Title of the Thesis : “न्यायजैनयोः प्रमाणतत्त्वम् : एकं तुलनात्मकमध्ययनम् ”  
(Theory of Pramāṇa in Nyāya and Jaina views : A Comparative Study)
4. Registration No. with date and year : 661/08.11.2021
5. Name(s) of the supervisor(s): Rtd. Prof.Sarbani Ganguli, Department of Sanskrit,  
Jadavpur University  
Dr. Tripti saha, Assistant Professor, Department of Sanskrit, Vidyasagar University
6. Date of meeting of R.A.C.: 05.08.2023
7. Progress of Research Work: For the period from 13.10.2022 to 14.04.2023

(with specific date / tenure)

1. The Third chapter of the thesis is named as अनुमानप्रमाणनिरूपणे न्यायजैनयोः मतवैषम्यम्
2. I have discussed Nyaya view and Jaina view from the perspective of Inference (Anumāna Pramāṇa)
3. I have also focused on the difference between them.

8. Comments of the members of R.A.C.:

9. Specific suggestions, if any:



10. Remarks:

(Separate sheets may be used if necessary)

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D. Committee:

Head  
Department of Sanskrit  
Vidyasagar University  
5/8/2023

Signature of the External Expert:

Amal Kumar Mondal 05/8/2023

Signature of the Member:

PROFESSOR  
Deptt. Of Sanskrit  
Rabindra Bharati University  
Kolkata-700050

Signature(s) of the Supervisor(s):

Sarbani Ganguli 5.8.23.

Professor (retd.)  
Dept. of Sanskrit  
Jadavpur University, Kol-32

Tripti Saha. 5.8.23

Dr. Tripti Saha  
Assistant Professor  
Dept. of Sanskrit  
Vidyasagar University  
Midnapore

**Documents Required for Submission with R.A.C. Report:**

1. Official notification

2. Attendance of the candidate/Scholar:

3. Relevant document (Research paper / patent / Publications, if any)

Shasanka Ghoshal Pat.  
Signature of the Scholar 05.08.23

2.4.2 Average percentage of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year (15)

Name of full time teacher with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit.	Qualification (Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. ) and Year of obtaining	Whether recognised as research Guide for Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit.	Year of Recognition as Research Guide
Abhijit Sinha	Ph.D.,2013	Yes	2014
Ajay Kumar Misra	Ph.D.,2010	Yes	2011
Amal Kumar Mondal	Ph.D.,1999	Yes	2000
Amit Kumar Kisku	Ph.D.,2016	Yes	2017
Amiya Kumar Panda	Ph.D.,1998	Yes	1999
Anirban Basu	Ph.D.,2013	Yes	2014
Anup Karak	Ph.D., 2017	No	
Arindam Gupta	Ph.D.,1998	Yes	1999
Arnab Sadhu	Ph.D.,2021	No	
Ashis Kumar Paul	Ph.D.,1992	Yes	1993
Asis Kumar Nandi	Ph.D.,1995	Yes	1996
Asmita Bhattacharyya	Ph.D.,2014	Yes	2015
Atasi Patra Maity	Ph.D., 2014	No	
Bachchu Paul	Ph.D.,2024	No	
Bani Ranjan De	Ph.D.,2004	Yes	2005
Barna Chakraborty	Ph.D., 2013	Yes	2019
Bidhan Chandra Patra	D. Sc.,1989	Yes	1990
Bidyarthi Dutta	Ph.D.,2008	Yes	2009
Biplab Mandal	Ph.D.,2018	Yes	2019
Biswapati Jana	Ph.D.,2017	Yes	2018
Braja Gopal Bag	Ph.D.,1995	Yes	1996
Brajaballav Pal	Ph.D.,2002	Yes	2003
Chandradipa Ghosh	Ph.D.,2002	Yes	2003
Chandrima Chakraborty	Ph.D.,2016	Yes	2017
Chhanda Ghosal	Ph.D.,2004	Yes	2005
Chhanda Mallick	Ph.D.,2010	Yes	2011
Damodar Mishra	Ph.D.,1989	Yes	1990
Debasish Biswas	Ph.D.,2011	Yes	2012
Debdas Roy	Ph.D., 2010	Yes	2022
Debdulal Banerjee	Ph.D.,2005	Yes	2006
Debidas Ghosh	Ph.D.,1990	Yes	1991
Debjani Das	Ph.D.,2012	Yes	2013
Dibyendu Chatterjee	Ph.D., 2018	No	
Dilip Kumar Maiti	Ph.D.,2005	Yes	2006
Dipa Banerjee	Ph.D., 2018	No	
Dipak Kumar Midya	Ph.D.,2007	Yes	2008
Dipanwita Dutta	Ph.D.,2016	Yes	2017
Dulee Hembrom	Ph.D.,2020	Yes	2021
Durga Sankar Rath	Ph.D.,2003	Yes	2004
Eyasir Khan	Ph.D.,2018	Yes	2019
Ganesh Ghorai	Ph.D.,2017	Yes	2018
Gunjan Biswas	Ph.D.,2012	Yes	2013
Hemant Kumar Golapalli	Ph.D., 2022	Yes	2023

*[Handwritten signature]*

2.4.2 Average percentage of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year (15)

Name of full time teacher with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit.	Qualification (Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. ) and Year of obtaining	Whether recognised as research Guide for Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit.	Year of Recognition as Research Guide
Indrani Datta (Chaudhuri)	Ph.D.,2012	Yes	2013
Indranil Acharya	Ph.D.,2004	Yes	2005
Jatisankar Bandyopadhyay	Ph.D.,2001	Yes	2002
Jayanta Kumar Kundu	Ph.D.,1993	Yes	1994
Jhadeswar Ghosh	Ph.D., 2009	Yes	2017
Jolly Das	Ph.D.,2000	Yes	2001
Joydev Maity	Ph.D.,2003	Yes	2004
Joyjit Ghosh	Ph.D.,2006	Yes	2007
Kakoli Das	Ph.D., 2023	No	
Kalpataru Bandyopadhyay	Ph.D.,2007	Yes	2008
Kaushik Sankar Bose	D. Sc.,1990	Yes	1991
Kausik Ghosh	Ph.D., 2022	No	
Keshab Chandra Mondal	Ph.D.,2002	Yes	2003
Khudiram Murmu	Ph.D., 2021	Yes	2022
Koushiki Dasgupta	Ph.D.,2013	Yes	2014
Krishnendu Barman	Ph.D.,2018	Yes	2019
Kuntal Chatterjee	Ph.D.,2005	Yes	2006
Madhumangal Pal	Ph.D.,1996	Yes	1997
Maharshi Sarkar	Ph.D.,2018	Yes	2019
Maidul Hossain	Ph.D.,2010	Yes	2011
Manoj Kumar Pati	Ph.D.,2009	Yes	2010
Md Ajimuddin Sk	Ph.D., 2018	Yes	2023
Mihir Kumar Pal	Ph.D.,1997	Yes	1998
Monanjali Bandyopadhyay	Ph.D.,2006	Yes	2007
Nilanjana Banerjee	Ph.D.,2011	Yes	2012
Nilanjana Das Chatterjee	Ph.D.,2009	Yes	2010
Nirmal Kumar Mahato	Ph.D.,2010	Yes	2011
Nirupam Acharyya	Ph.D.,2021	Yes	2023
Nivedita Bhattacharya Sahu	Ph.D.,2014	Yes	2015
Papia Gupta	Ph.D.,2001	Yes	2002
Paresh Chandra Jana	Ph.D.,1995	Yes	1996
Partha Chowdhuri	Ph.D.,2021	Yes	2021
Pijush Kanti Jana	Ph.D.,2003	Yes	2004
Pinaki Das	Ph.D.,2008	Yes	2009
Prakash Karmakar	Ph.D.,2009	Yes	2010
Pramode Kumar Prasad	Ph.D.,2017	Yes	2018
Prasenjit Acharya	Ph.D.,2016	Yes	2017
Priyanka Halder Mallick	Ph.D.,1997	Yes	1998
Pujasree Chatterjee	Ph.D., 2022	No	
Radha Raman Pal	Ph.D.,1997	Yes	1998
Raghu Nandan Giri	Ph.D.,2018	Yes	2019
Rajendra Prosad Ghosh	Ph.D.,2014	Yes	2015
Ramesh Chandra Das	Ph.D.,2011	Yes	2012



2.4.2 Average percentage of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year (15)

Name of full time teacher with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit.	Qualification (Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. ) and Year of obtaining	Whether recognised as research Guide for Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit.	Year of Recognition as Research Guide
Ramkrishna Maiti	Ph.D.,2004	Yes	2005
Ratan Hembram	Ph.D.,1999	Yes	2000
Sagar Acharya	Ph.D.,2010	Yes	2011
Sagarika Ghosh	Ph.D., 2016	No	
Samir Ghosh	Ph.D.,2005	Yes	2006
Sanchita Pramanik	Ph.D.,2015	Yes	2016
Sandip Chattopadhyay	Ph.D.,2001	Yes	2002
Sandip Kumar Sinha	Ph.D.,2005	Yes	2006
Sanjay Kumar Jayswal	Ph.D.,2011	Yes	2012
Sankar Kumar Roy	Ph.D.,2003	Yes	2004
Santi Sarkar	Ph.D., 2021	No	
Saroj Kumar Pan	Ph.D.,2002	Yes	2003
Saswati Kapat	Ph.D., 1994	Yes	
Satyajit Saha	Ph.D.,1991	Yes	1992
Sebak Kumar Jana	Ph.D.,2007	Yes	2008
Shewli Dutta	Ph.D.,2015	Yes	2016
Shimul Roy	Ph.D.,2020	Yes	2021
Shipra Bhattacharjee	Ph.D., 2018	No	
Shipra Roy	Ph.D., 2018	No	
Shrabanti Maity	Ph.D.,2010	Yes	2011
Shree Kant Dwivedi	Ph.D.,2013	Yes	2014
Shyama Prasad De	Ph.D., 2024	No	
Shyamal Kumar Mondal	Ph.D.,2004	Yes	2005
Sibaji Pratim Basu	Ph.D.,2005	Yes	2006
Soamdeep Singha	Ph.D., 2022	No	
Soma Bhattacharjee	Ph.D., 2015	No	
Soma Das	Ph.D., 2005	Yes	2019
Somnath Rudra	Ph.D.,2015	Yes	2016
Soumen Mallik	Ph.D.,2014	Yes	2015
Soumyabrata Banerjee	Ph.D., 2017	Yes	2018
Sourav Naskar	Ph.D., 2021	Yes	2022
Sovanjan Sarkar	Ph.D.,2006	Yes	2007
Sreejith K. K.	Ph.D.,2017	Yes	2018
Subal Chandra Manna	Ph.D.,2007	Yes	2008
Subhas Chandra Saha	Ph.D.,1997	Yes	1998
Subhendu Sekhar Naskar	Ph.D., 2024	No	
Subrata Kumar De	Ph.D.,1998	Yes	1999
Sudin Bag	Ph.D.,2015	Yes	2016
Sudipta Dalai	Ph.D.,2003	Yes	2004
Sudipta Jha	Ph.D.,2017	Yes	2018
Sujata Maiti (Choudhury)	Ph.D.,1995	Yes	1996
Sujay Ghosh	Ph.D.,2009	Yes	2010
Sujaya Sarkar	Ph.D.,1999	Yes	2000

2.4.2 Average percentage of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year (15)

Name of full time teacher with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit.	Qualification (Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. ) and Year of obtaining	Whether recognised as research Guide for Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit.	Year of Recognition as Research Guide
Sujit Kumar Pal	Ph.D.,2004	Yes	2005
Sumahan Bandyopadhyay	Ph.D.,2007	Yes	2008
Suman Kr Dey	Ph.D., 2015	No	
Suman Kumar Halder	Ph.D.,2015	Yes	2016
Sumana Bera	Ph.D.,2020	Yes	2020
Sumana Sarkhel	Ph.D.,2008	Yes	2009
Sumita Roy	Ph.D.,2005	Yes	2006
Surajit Ghosh	Ph.D.,2005	Yes	2006
Surojit Das	Ph.D.,2018	Yes	2019
Susanta Kumar Chakraborty	Ph.D.,1992	Yes	1993
Susmita Bala	Ph.D., 2023	No	
Sutanu Dutta	Ph.D.,2019	Yes	2020
Swarnendu Sarkar	Ph.D.,2006	Yes	2018
Swarup Singha	Ph.D.,2016	Yes	2017
Swatilekha Bhattacharya	Ph.D.,2018	Yes	2019
Syed Abdul Hafiz Moinuddin	Ph.D.,1997	Yes	1998
Tagar Lal Khan	Ph.D.,2016	Yes	2017
Tanushree Mitra Basu	Ph.D., 2013	No	
Tapan Kumar De	Ph.D.,2008	Yes	2009
Tarak Nath Sahu	Ph.D.,2014	Yes	2015
Tripti Saha	Ph.D.,2012	Yes	2013
Ujjayan Bhattacharya	Ph.D.,2002	Yes	2003
Utpal Nandi	Ph.D.,2018	Yes	2019
Uttam Biswas	Ph.D.,2016	Yes	2017
Uttam Kumar Mondal	Ph.D.,2016	Yes	2017

*[Signature]*

*[Signature]*  
30/01/25

Registrar  
Vidyasagar University  
Midnapore - 721102  
West Bengal, India

## Report of the Meeting of RAC

1. Name of the Candidate: Mrinal Pradhan

2. Name of the Department: History

3. Title of the Thesis: Improvised Frontiers in a Region of Bengal: Territory, Society and Culture in the Borderlands of Southern Midnapore and Northern Orissa

4. Registration No with Date and Year: 527/04/11/2021

5. Name of the Supervisor(s): Prof. Ujjayan Bhattacharya

6. Date of Meeting of RAC: 05/06/2024

7. Progress of Research Work:

8. Comments of the Members of RAC: Research progress satisfactory

9. Specific Suggestion, if any:

10. Remarks: To continue with research in the same area.

Ujjayan Bhattacharya  
5.6.2024.

Pradip Chattopadhyay  
05/6/2024

57/6/2024

**Resolutions of the RAC Meeting held on 05.06.2024 on Mr. Mrinal Pradhan's PhD Thesis**

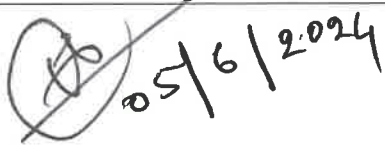

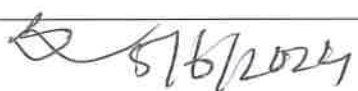

1. Mr. Mrinal Pradhan , PhD scholar made his presentation before the committee on his research topic, 'Improvised Frontiers in a region of Bengal: Territory, Society and Culture in the Borderland of Southern Midnapur and Northern Orissa(1751-1912)'
2. External Expert Prof. Pradip Chattopadhyaya commented on the candidate's presentation and gave the scholar important suggestions.
3. The Committee resolved that the scholar's research work is progressing satisfactorily.

*Upendra Choudhary*  
5.6.2024.

*P. Chattopadhyay*  
05/6/2024

*12/5/20*  
5/6/2024

At the Research Advisory Committee Meeting (RAC) of Mr. Mrinal Pradhan on 05.06.2022 the following members were present in blended mode

Name	Signature
1. Pradyip Chatterjee	 05/6/2024
2. NIRMAL KR MUKHARJEE (Internal Member)	 05/6/2024
3. NIRMAL KR MUKHARJEE Head dept of History	 5/6/2024
4. Prof. Ujjayan Bhattacharya, Department of History, Vidyasagar University, Convener , RAC of Mr. Mrinal Pradhan	 5.6.2024.





Vidyasagar University  
Midnapore-721102, West Bengal

Ph.D Cell.

Centre/Department: **History**

Report of the meeting of the RAC

1. Name of the Candidate: Sukanya Som

2. Name of the Centre/Department: History

3. Title of the Thesis: 'The Politics and Polemic of Greater India Ideology : A Study on Historiography and Its Ethos'

4. Registration No. with date and year: 530/Ph.D. (Arts) w.e.f 02.11.2021

5. Name (s) of the Supervisor (s): Prof Koushiki Dasgupta

6. Date of meeting of RAC: 26.2.24

7. Progress of Research Work: :9/1/2023 to 26/2/24  
(with specific date /tenure)

Progress is satisfactory

8. Comments of the members of RAC:

9. Specific suggestions, if any:

Suggestions are given and the student has taken note of them

10. Remarks:

(Separate sheets may be used if necessary)

Signatures of the Members of RAC

Signature of the Secretary, Ph.D. committee:

Signature of the External expert:

Pradip Chattopadhyay  
Professor of History  
The University of Burdwan  
West Bengal

Signature of the Member:

Sujaya Sarkar  
26.2.24

Signature (s) of the Supervisor (s) :

Prof Koushiki Dasgupta  
Vidyasagar Chair Professor in History  
Vidyasagar University

DEPARTMENT OF HISTORY  
VIDYASAGAR UNIVERSITY

26.2.2024

## Report of the meeting of RAC 1

1. Name of the Candidate: AGNIDEV MANNA
2. Name of the Department: DEPARTMENT OF HISTORY
3. Title of the Thesis: TROPICAL CLIMATE , SOCIETY AND CULTURE: A HISTORICAL CLIMATOLOGY OF COLONIAL BENGAL

4. Registration No with date and year: 946/PH.D, 31.01.2023.

5. Name of the Supervisor: DR. NIRMAL KUMAR MAHATO

6. Date of meeting of R A C: 13. 10. 2023

7. Progress of Research Work: 31.01.2023 - 30.07.2023

(With specific date/Tenure)

8. Comments of the members of R A C: The scholar's work is progressing satisfactorily.

9. Specific suggestions, if any

10. Remarks:

(Separate sheets may be used if necessary)

### Signatures of the Members

Signature of the Secretary, Ph. D. Committee:

*Ujjayanti Ghosh*  
HEAD

Signature of the External Expert:

*Sujata Mukherjee*

DEPARTMENT OF HISTORY  
VIDYASAGAR UNIVERSITY

Signature of the Member:

S

Signature of the Supervisor:

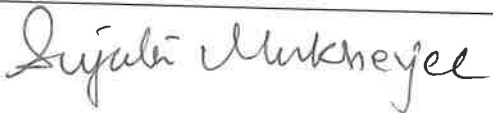
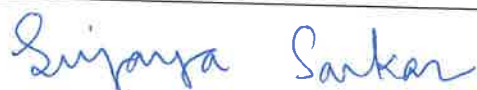

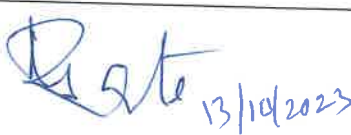
*N. K. Mahato*  
13/10/2023

DR. NIRMAL K. MAHATO  
Associate Professor-in-History  
Vidyasagar University  
Midnapore-721102, W.B. INDIA

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At the Research Advisory Committee Meeting (RAC) of Mr. Agnidev Manna on 13.10.2023 the following members were present in blended mode


Name	Signature
1. PROF. SUJATA MUKHERJEE, Department of History, Rabindra Bharati University	
2. PROFESSOR SUJAYA SARKAR, Department of History, Vidyasagar University,	
3. PROF. UJJAYAN BHATTACHARYA, Department of History, Vidyasagar University, H.O.D	
4. Dr. Nirmal Kumar Mahato, Department of History, Vidyasagar University, Convener, RAC of Mr. Agnidev Manna .	 13/10/2023 DR. NIRMAL KR. MAHATO Associate Professor-in-History Vidyasagar University Midnapore-721102, W.B. INDIA

**Research Advisory Committee (RAC) held on 13.10.2023**


Name of the Candidate	Signature
AGNIDEV MANNA	Agnidev Manna

**Resolutions of the RAC Meeting held on 13/10/2023 on Mr. Agnidev Manna's PhD Thesis**

1. Mr. Agnidev Manna, PhD scholar made his presentation before the Committee on his research topic, *Tropical Climate, Society and Culture: A Historical Climatology of Colonial Bengal*.
2. External expert Prof. Sujata Mukherjee commented on the candidate's presentation and gave the scholar important suggestions.
3. The Committee resolved that the Scholar's work is progressing satisfactorily.

  
13/10/2023

DR. NIRMAL KR. MAHATO  
Associate Professor-in-History  
Vidyasagar University  
Midnapore-721102, W.B. INDIA

  
13.10.2023

HEAD  
DEPARTMENT OF HISTORY  
VIDYASAGAR UNIVERSITY



SUJATA MUKHERJEE  
Professor  
Department of History  
Rabindra Bharati University  
56A, B. T. Road, Kolkata-700064

## Report of the meeting of RAC 1

1. Name of the Candidate: ARNAB ROY CHOWDHURY
2. Name of the Department: DEPARTMENT OF HISTORY
3. Title of the Thesis: *Botanical Contribution of Four Major regional Botanical gardens of India during Colonial period.*
4. Registration No with date and year: 810/PH.D, 23.08.2022.
5. Name of the Supervisor: DR. NIRMAL KUMAR MAHATO
6. Date of meeting of R A C: 12. 10. 2023
7. Progress of Research Work: 23.08.2022 — 23.2.2023  
(With specific date/Tenure)
8. Comments of the members of R A C: *The scholar's work is progressing satisfactorily.*
9. Specific suggestions, if any
10. Remarks:  
(Separate sheets may be used if necessary)

### Signatures of the Members

Signature of the Secretary, Ph. D. Committee:

Signature of the External Expert: ✓ *Abhimata Tomer* 12-10-2023


Signature of the Member: *Ujjaya Bhattacharya* 12.10.2023,


Signature of the Supervisor: *NK Mahato* 12/10/2023  
*Ujjaya Sankar* 12.10.23


**Resolutions of the RAC Meeting held on 12/10/2023 on Mr. Arnab Roy Chowdhury's PhD Thesis**

1. Mr. Arnab Roy Chowdhury, PhD scholar made his presentation before the Committee on his research topic, "*Botanical Contribution of Four Major regional Botanical gardens of India during Colonial period*"
2. External expert Prof. Arabinda Samanta commented on the candidate's presentation and gave the scholar important suggestions.
3. The Committee resolved that the Scholar's work is progressing satisfactorily.


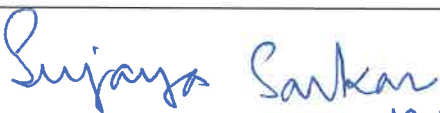
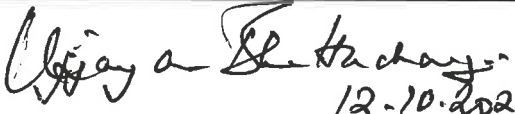

  
12/10/2023

✓   
12-10-2023

  
12.10.2023.

  
12.10.23

At the Research Advisory Committee Meeting (RAC) of Mr. Arnab Roy Chowdhury on 12.10.2023 the following members were present in blended mode

Name	Signature
1. PROF. ARABINDA SAMANTA, Retired Prof. Department of History. Burdwan University.	✓  12-10-2023
2. PROFESSOR SUJAYA SARKAR, Department of History, Vidyasagar University,	 12.10.23
3. PROF. UJJAYAN BHATTACHARYA, Department of History, Vidyasagar University	 12-10-2023
4. Dr. Nirmal Kumar Mahato, Department of History, Vidyasagar University, Convener, RAC of Mr. Arnab Roy Chowdhury.	 12/10/2023

**Research Advisory Committee (RAC) held on 12.10.2023**

Name of the Candidate	Signature
ARNAB ROY CHOWDHURY.	Arnab Roy Chowdhury.



## Report of the meeting of RAC 1

1. Name of the Candidate: SUSHANTO MAHATO
2. Name of the Department: DEPARTMENT OF HISTORY
3. Title of the Thesis: TEMPLE ARCHITECTURE AND SACRED LANDSCAPE IN  
PURULIA AND BANKURA FROM EIGHTH TO THIRTEENTH CENTURY CE.
4. Registration No with date and year: 943/PH.D, 31.01.2023.
5. Name of the Supervisor: DR. NIRMAL KUMAR MAHATO
6. Date of meeting of R A C: 08. 12. 2023
7. Progress of Research Work: 31.01.2023 - 30.07.2023  
(With specific date/Tenure)

8. Comments of the members of R A C:

The scholar's work is progressing  
satisfactorily

9. Specific suggestions, if any

10. Remarks:

(Separate sheets may be used if necessary)

### Signatures of the Members

Signature of the Secretary, Ph. D. Committee:

*[Signature]*  
08.12.23.

Signature of the External Expert:

*[Signature]*  
8/12/23

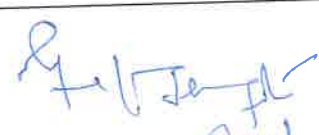
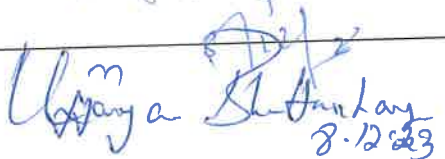
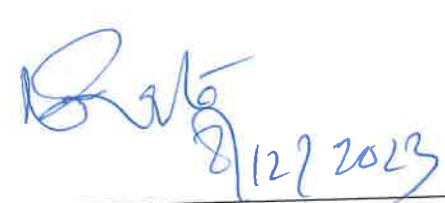
✓ Signature of the Member:

*[Signature]*  
8.12.23.

Signature of the Supervisor:

*[Signature]*  
8/12/2023

At the Research Advisory Committee Meeting (RAC) of Mr. Sushanto Mahato on 08.12.2023 the following members were present in blended mode

Name	Signature
1. PROF. Goutam Sengupta, Retired Prof. Department of History. Visva-Bharati University and Former Director General, Archaeology Survey of India.	
2. PROF. UJJAYAN BHATTACHARYA, Department of History, Vidyasagar University	 8.12.23
3. Dr. Nirmal Kumar Mahato, Department of History, Vidyasagar University, Convener, RAC of Mr. Sushanto Mahato.	 8/12/2023

Research Advisory Committee (RAC) held on 08.12.2023

**Resolutions of the RAC Meeting held on 08/12/2023 on Mr. Sushanto Mahato's PhD Thesis**

1. Mr. Sushanto Mahato, PhD scholar made his presentation before the Committee on his research topic, *"TEMPLE ARCHITECTURE AND SACRED LANDSCAPE IN PURULIA AND BANKURA FROM EIGHTH TO THIRTEENTH CENTURY CE"*.
2. External expert Prof. Goutam Sengupta commented on the candidate's presentation and gave the scholar important suggestions.
3. The Committee resolved that the Scholar's work is progressing satisfactorily.

Sushanto Mahato  
8/12/2023

Ujjaya Bhattacharya  
8.12.23

Goutam Sengupta  
8/12/23

Name of the Candidate	Signature
SUSHANTO MAHATO	<u>Sushanto Mahato</u>

## Report of the Meeting of RAC

1. Name of the Candidate: Mrinal Pradhan

2. Name of the Department: History

3. Title of the Thesis: Improvised Frontiers in a Region of Bengal: Territory, Society and culture in the Borderland of Southern Midnapore and Northern Orissa

4. Registration No with Date and Year: 527/04/11/2021

5. Name of the Supervisor(s): Prof. Ujjayan Bhattacharya

6. Date of Meeting of RAC: 19/09/2023

7. Progress of Research Work: Progress of research is very satisfactory. The scholar has visited the Archive continuously.

8. Comments of the Members of RAC: Research work has been commended by all members of the RAC.

9. Specific Suggestion, if any: The scholar should devote time to write his chapters as expeditiously as possible.

10. Remarks: The overall performance is good.

Ujjayan Bhattacharya  
19.9.2023.

At the Research Advisory Committee Meeting (RAC) of Mr. Mrinal Pradhan on 19/09/2023 the following members were present in blended mode

Name	Signature
1. Prof. Pradip Chattopadhyay	Pradip Chattopadhyay 19/9/23
2. Dr. Nirmala Kumar Mahato	Dr. Nirmala Kumar Mahato 19/09/2023
3. Prof. Ujjayan Bhattacharya (HOD)	Ujjayan Bhattacharya
4. Prof. Ujjayan Bhattacharya, Department of History, Vidyasagar University, Convener, RAC of Mr. Mrinal Pradhan	

Professor of History  
University of Burdwan  
Burdwan-741006



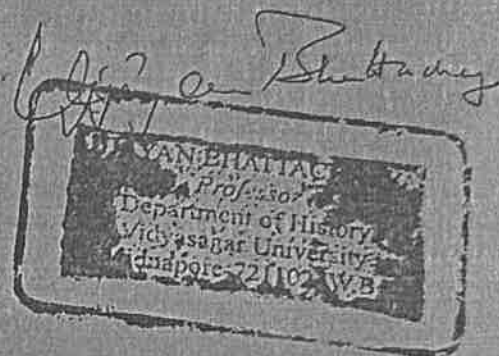


Resolutions of the RAC Meeting held on 19/09/2023 on Mr. Mrinal Pradhan's PhD Thesis

1. Mr. Mrinal Pradhan, PhD scholar made his presentation before the Committee on his research topic, *Improvised Frontiers in a Region of Bengal: Territory, Society and Culture in the Borderlands of Southern Midnapur and Northern Orissa*.
2. External Expert Prof. Pradip Chattopadhyay commented on the candidate's presentation and gave the scholar important suggestions.
3. The Committee resolved that the Scholar's research work is progressing satisfactorily.

Pradip Chattopadhyay

Professor of History  
The University of Burdwan  
West Bengal



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Research Advisory Committee (RAC) held on 19/09/2023

Name of the Candidate	Signature
Mrinal Pradhan	Mrinal Pradhan



**Vidyasagar University**  
Midnapore-721102, West Bengal

Centre/Department:

**Report of the meeting of the RAC**

1. Name of the Candidate: Richik Bhattacharyya

(Richik Bhattacharyya)

2. Name of the Centre/Department: History

3. Title of the Thesis: Historicising Munshi Premchand: An Intellectual Study of People, Politics and Ideology (1880-1936)

4. Registration No. with date and year: 533/ 02/11/2021

5. Name (s) of the Supervisor (s): Koushiki Dasgupta

6. Date of meeting of RAC: 4.9.23

7. Progress of Research Work: 9/1/2023 to 4/09/2023

(with specific date /tenure) Modification of Introductory chapter and First draft of first Chapter submitted

8. Comments of the members of RAC:

9. Specific suggestions, if any:

10. Remarks:

(Separate sheets may be used if necessary)

The candidate has been asked to revise some segments in his first chapter. The experts suggested him to work on primary sources on Premchand.

**Signatures of the Members of RAC**

Signature of the Secretary, Ph.D. committee:

Signature of the External expert:

Signature of the Member:

Signature (s) of the Supervisor (s):

Signature of the Secretary, Ph.D. committee:  
P. Chellapadhyay  
04-09-2023  
Professor of History  
The University of Burdwan  
West Bengal

Signature of the Member:  
Debjani Das  
04/09/2023

Signature (s) of the Supervisor (s):  
Koushiki Dasgupta  
4.9.23

**Documents Required for Submission with RAC Report:**

1. Official notification



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## RAC

2 messages

Dasgupta <ppdd91@gmail.com>

Tue, 29 Aug, 2023 at 22:54

To: Richik Bhattacharyya <mailmerichik@gmail.com>

Dear Scholar,

You are requested to present your progress report in the RAC meeting on 4.9.23 at 3.30 pm via google meet.

Thinking you  
Koushiki Dasgupta  
Department of History  
Vidyasagar University

Richik Bhattacharyya <mailmerichik@gmail.com>

Wed, 30 Aug, 2023 at 12:16

To: Dasgupta <ppdd91@gmail.com>

Respected ma'am, thank you for the information. I will be there. I will send you the copy of progress report by tomorrow.  
Regards.

[Quoted text hidden]

attested  
Richik Bhattacharyya  
4/09/2023





# VIDYASAGAR UNIVERSITY

MIDNAPORE-721 102, WEST BENGAL

Ph: 03222- 276554/276555/276557/276558

Memo No.: VU/SNT/Ph.D./RAC/546 /2023

Date- 11.09.2023


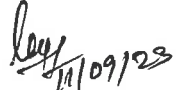


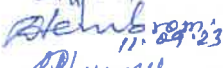

## Meeting

Ph.D. Committee in Santali Three (3) Member RAC Committee Meeting held on- 11.09.2023 at 11.00. A.M. to onwards for Four (4) F.T.R.S.- i) Deepali Majhi, ii) Bimal Besra, & iii) Droupadi Hembram, and iv) Jayashree Mahata, in the Departmental Head room in offline mode.


## Agenda:

1. Ph.D. in Santali Three (3) Member RAC Committee Meeting.
2. Miss.

## Member Present in the Meeting:

Sl. No.	Member	Signature/Attended
1. Prof. Tapan Kumar De-	Chairmen-	
2. Dr. Ratan Hembram-	Ex-officio Secretary-	
3. Prof. Indranil Acharya –	Internal Member-	
(Dept. of English, V.U.)		
4. Dr. Pramode Kr. Prasad-	Internal Member-	
(Dept. of Hindi, V.U.)		
5. Dr. Fatik Murmu-	External Member-	
(Dept. of Santali, B.U., Bankura, W.B.)		
6. Dr. Palton Murmu-	External Member-	
(Dept. of Santali, S.K.B.U., Purulia, W.B.)		
7. Dr. Dulee Hembram-	Internal Invitee Member-	
8. Dr. Khudiram Murmu-	Internal Invitee Member-	

- Resolutions:** - 1. We Ph.D. in Santali Ph.D. Committee Members, V.U. Proposed the name of the working Chairman of Dr. Pramode Kr. Prasad- Asso. Prof., Dept. of Hindi, V.U. and we all unanimously accept his name.
2. We Ph.D. Committee Member go through the last meeting held on- 02.08.2023 agenda, we discuss and unanimously confirm the last RAC Meeting.
3. We again Scrutiny, Observe and discuss regarding the thesis of four (4)- Full-Time Research Scholar's Written thesis and correct the thesis & resolved in the Ph.D. Committee in Santali that three (3) Members RAC-Committee Meeting is held today on- 11.09.2023 at 11.00. A.M. to Onwards for four (4) F.T.R.S.- as- (i) Deepali Majhi- Supervisor/Convener- Dr. Ratan Hembram, Asst. Prof. & Head, Dept. of Santali, V.U., (ii) Bimal Besra & (iii) Droupadi Hembram- Supervisor/Convener- Dr. Khudiram Murmu, Asst. Prof., Dept. of Santali, V.U.. and (iv) Jayashree Mahata- Supervisor/Convener- Dr. Dulee Hembram, Asst. Prof., Dept. of Santali, V.U.- We all RAC- Member Check the Candidates thesis and ask for needful Suggestions and Corrections.
4. Meeting ended with the Vote of thanks by the Ph.D. in Santali- Ex-Officio Secretary- Dr. Ratan Hembram, Asst. Prof. & Head, Dept. of Santali, V.U.

  
 Secretary

Ph.D. Committee, Dept. of Santali  
 Vidyasagar University Midnapore, W.B.

Half Yearly

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To

The Registrar

Vidyasagar University,

Midnapore - 721 102,

West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI

For the period from 21.02.2023 to 11-09-2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : DEEPAI MAJHI
2. Name of Supervisor(s) : Dr. RATAN HEMBRAM
3. Date of Registration for Ph.D. Degree : 05.09.2022
4. Title of Research Work : "A HISTORICAL STUDY OF SANTALI GRAMMAR"
5. Details in respect of Research work carried out during the above mentioned period:  
After the previous works, I have done most of the research works of the 3rd, 4th and 5th chapters in the last six months.

Yours Sincerely,

Deepali Majhi

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any

Signature

Half yearly

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21.02.2023 to 11.09.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : BIMAL BESRA
2. Name of Supervisor(s) : DR. KHUDIRAM MURMU
3. Date of Registration for Ph.D. Degree : 05.09.2022
4. Title of Research Work : "ସନ୍ତାଲୀର ସ୍ତ୍ରୀ ସ୍ୱାଧୀନତା ଓ ସାମାଜିକ ଅବସ୍ଥା: ୧୮୫୦-୧୯୫୦"
5. Details in respect of Research work carried out during the above mentioned period:  
After the previous works, I have done most of the Research Works papers of the 5th & 6th Chapters in the last six months.

Yours Sincerely,

Bimal Besra  
11.9.23

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
  2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
  3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
  4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
  5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
  6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
  7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
  8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐
- Any other comment of the Supervisor(s):

Dr. Khudiram Murmu  
11.09.23  
Secretary,  
Ph.D. Committee, Dept. of Santali,  
Vidyasagar University, Midnapore, W.B.

Dr. Khudiram Murmu  
11.09.23  
Signature of the Supervisor (s)

Dr. Khudiram Murmu  
11.09.23

Dr. Khudiram Murmu  
11/09/2023

Counter signed by the Dean of the concerned Faculty  
Dr. Khudiram Murmu  
11.09.23  
Dean (Acting)  
Faculty of Arts & Commerce  
VIDYASAGAR UNIVERSITY  
Midnapore-721102

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐  
Comments, if any

Signature



QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21.06.2023 to 11.09.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : DRUPADI HEMBRAM
2. Name of Supervisor(s) : DR. KHUDIRAM MURMU
3. Date of Registration for Ph.D. Degree : 20.03.2022
4. Title of Research Work : "KAROXI & SHABDI PRABHAKARZO (KAROXI & SHABDI PRABHAKARZO) (SANTAL ARIKHALI REPANCI DEM: MIDPAPARAHAW)"
5. Details in respect of Research work carried out during the above mentioned period:  
After the previous works, I have done most of the Research Works at the 4th, 5th Chapters in the last six months.

Yours Sincerely,

Drupadi Hembram  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature



QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21.06.2023 to 11.09.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : JAYASHREE MAHATA
2. Name of Supervisor(s) : DR. DULEE HEMBROM
3. Date of Registration for Ph.D. Degree : 20.09.2022
4. Title of Research Work : ସଂସ୍କୃତ-ବଙ୍ଗଳା PDBA ଓ ଓଡ଼ିଆ ଲିପିବଦ୍ଧ : ୩୨୫  
ମଧ୍ୟ-ମଧ୍ୟମାଳା (SANTAL-KURBT LAKHAR TULA JAKHA MID PA-PARHAW)
5. Details in respect of Research work carried out during the above mentioned period:  
After the previous works, I have done most of the Research work  
of the 3rd and 4th chapters in the last six months.

Yours Sincerely,

Jayashree Mahata  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

D. Hembrom  
Signature of the Supervisor (s)

11.09.23  
Counter signed by the Dean of the concerned Faculty

11/9/23  
Dean (Acting)  
Faculty of Arts & Commerce  
VIDYASAGAR UNIVERSITY  
Midnapore-721102

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature



**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721 102, WEST BENGAL  
Ph: 03222- 276554/276555/276557/276558

Memo No.: VU/SNT/Ph.D./RAC/545 /2023

Date- 12.09.2023

**Meeting**

Ph.D. Committee in Santali Three (3) Member RAC Committee Meeting held on- 12.09.2023 at 11.00. A.M. to onwards for Three (3) F.T.R.S.- i) Nilima Patra, ii) Shilaboti Hansda, & iii) Kishun Saren and One (1) P.T.R.S.- i) Shyam Charan Tudu, in the Departmental Head room in offline mode.

**Agenda:**

1. Ph.D. in Santali Three (3) Member RAC Committee Meeting.
2. Miss.

**Member Present in the Meeting:**

<u>Sl. No.</u>	<u>Member</u>	<u>Signature/Attended</u>
1.	Prof. Tapan Kumar De- Chairmen-	
2.	Dr. Ratan Hembram- Ex-officio Secretary-	
3.	Prof. Indranil Acharya – Internal Member- (Dept. of English, V.U.)	
4.	Dr. Pramode Kr. Prasad- Internal Member- (Dept. of Hindi, V.U.)	
5.	Dr. Fatik Murmu- External Member- (Dept. of Santali, B.U., Bankura, W.B.)	
6.	Dr. Palton Murmu- External Member- (Dept. of Santali, S.K.B.U., Purulia, W.B.)	
7.	Dr. Dulee Hembrom- Internal Invitee Member-	
8.	Dr. Khudiram Murmu- Internal Invitee Member-	

*12-9-23*  
*Ratan Hembram*  
*12-09-23*  
*12/09/23*  
*12/9/23*  
*12/9/23*  
*12/09/2023*  
*12-09-23*  
*12.9.23*

**Resolutions:** - 1. We Ph.D. in Santali, Ph.D. Committee Members, V.U. Proposed the name of the Chairman of Prof. Indranil Acharya, Dept. of English, V.U. and we all unanimously accept his name.

2. We Ph.D. Committee Member go through the last meeting held on- 02.08.2023 agenda, we discuss and unanimously confirm the last RAC Meeting.
3. We again Scrutiny, Observe and discuss regarding the thesis of three (3)- Full-Time Research Scholar's and One (1)- Part-Time Research Scholar written thesis and correct the thesis & resolved in the Ph.D. Committee in Santali that three (3) Members RAC- Committee Meeting is held today on- 12.09.2023 at 11.00. A.M. to Onwards for three (3)- F.T.R.S.- as- (i) Nilima Patra, (ii) Shilaboti Hansda- Supervisor/Convener- Dr. Khudiram Murmu, Asst. Prof., Dept. of Santali, V.U. and (iii) Kishun Saren- Supervisor/Convener- Dr. Ratan Hembram, Asst. Prof. & Head, Dept. of Santali, V.U. and One (1) P.T.R.S.- as- (i) Shyam Charan Tudu- Supervisor/Convener- Dr. Dulee Hembrom- Asst. Prof., Dept. of Santali, V.U.- We all RAC- Member Checkup the Candidate's thesis and ask for needful correction.
4. Meeting ended with the vote of thanks by the Ph.D. in Santali- Ex-Officio Secretary- Dr. Ratan Hembram, Asst. Prof., & Head, Dept. of Santali, V.U.

*Ratan Hembram*  
*12-09-23*  
Secretary

Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B.

HALF YEARLY  
QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub. Progress report for the Ph.D. Programme in ..... SANTALI .....  
For the period from 21.06.2023 ..... to 12.09.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : NILIMA PATRA
2. Name of Supervisor(s) : DR. KHUDIRAM MURMU
3. Date of Registration for Ph.D. Degree : 20.9.2022
4. Title of Research Work : "ସଂସ୍କୃତିର ସାମାଜିକ ଉପାଦାନ ଓ ସାମାଜିକ ଉପାଦାନର ସାମାଜିକ ଉପାଦାନ" (SANTALI SAWHED ANARI : MID-PA-PAR HAW)
5. Details in respect of Research work carried out during the above mentioned period:  
After the previous work, I have done most of the Research works of the 4th, 5th & 6th chapter in the last six months.

Yours Sincerely,

Nilima Patra  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

12-09-23  
Secretary  
Ph.D. Committee, Dept. of Sanskrit  
Vidyasagar University, Midnapore, W.B.

12-09-23  
Signature of the Supervisor (s)

12.9.23  
Signature of the Supervisor (s)

12.9.23  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned faculty

12.9.23  
Dean (Acting)  
Faculty of Arts & Commerce  
VIDYASAGAR UNIVERSITY  
Midnapore-721102

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature



HALF YEARLY

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 20/03/2023 to 19/06/2023.

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SHILABOTI HANSDA
2. Name of Supervisor(s) : DR. KHUDDIRAM MURMU
3. Date of Registration for Ph.D. Degree : 20/09/2022
4. Title of Research Work : "LAKCHAR AAR PARIS MID PAPARHAN"  
(SANTAR: LAKCHAR AAR PARIS MID PAPARHAN)
5. Details in respect of Research work carried out during the above mentioned period:  
After the previous work I worked on the first, second and  
forth chapters of my research topic for the last six months.

Yours Sincerely,

Shilaboti Hansda  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
1. General intelligence & keenness to learn:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
2. Initiative, Drive and Resourcefulness:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
3. Quality of Research Work:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
4. Willingness to shoulder additional responsibility and put in extra efforts:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
5. Punctuality in attendance:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
6. Amenability to discipline:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
8. Overall Grading:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
Any other comment of the Supervisor(s):	
<div style="display: flex; justify-content: space-between;"><div><u>12/09/23</u> Signature of the Supervisor (s)</div><div><u>12-9-23</u> Signature of the Dean (Acting)</div><div><u>12-05-23</u> Secretary</div></div> <div style="text-align: center;"><u>12-9-23</u> Counter signed by the Dean of the concerned Faculty</div> <div style="text-align: right;"><u>12-05-23</u> Ph.D. Committee, Dept. of Sa vidyasagar University, Midnapore</div>	

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21.06.2023 to 12.09.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SHYAM CHARAN TUDU
2. Name of Supervisor(s) : Dr. DULEE HEMBROM
3. Date of Registration for Ph.D. Degree : 20.09.2023
4. Title of Research Work : OX. N-DODD WEHOSN-DH-DIG W-D-D-D  
202 K-D, 47-6-D, K-D : 47-E EP-D EP-D 2 W-D-D

5. Details in respect of Research work carried out during the above mentioned period:  
after the previous works, I have done most of the research  
works of the 4th, 5th and 6th chapter in the last six months

Yours Sincerely,

Shyam Charan Tudu

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

12/09/2023  
Hembrom  
Signature of the Supervisor (s)

12-09-23  
Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B.

Counter signed by the Dean of the concerned Faculty  
12.9.23  
Dean (Acting)  
Faculty of Arts & Commerce  
VIDYASAGAR UNIVERSITY  
Midnapore-721102

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

# HALF YEARLY

## QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 20.08.2023 to 19.06.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : KISHUN SAREN
2. Name of Supervisor(s) : DR. RATAN HEMBRAM
3. Date of Registration for Ph.D. Degree : 16.12.2022
4. Title of Research Work : ସଂସ୍କୃତ ଓ ବଙ୍ଗଳା ଶାସ୍ତ୍ରରେ କବିତାବଳୀ (SANTAR AR HO. KOWAGI LAKCHAR)
5. Details in respect of Research work carried out during the above mentioned period: MID-PA-PARHAN  
After the previous works, I have done most of the Research  
works of the 2nd, 4th, 5th, 6th Chapter in the last six months

Yours Sincerely,

Kishun Saren  
Signature of the Research Scholar

### Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
  2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
  3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
  4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
  5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
  6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
  7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
  8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐
- Any other comment of the Supervisor(s):

[Signature]  
12/09/2023

[Signature]  
12/09/23  
Signature of the Supervisor (s)

[Signature]  
12/09/23

[Signature]  
12/09/23  
Secretary

Ph.D. Committee, Dept. of Sanskrit  
Vidyasagar University, Midnapore.

Counter signed by the Dean of the concerned Faculty

### Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature





## VIDYASAGAR UNIVERSITY

MIDNAPORE -721 102, WEST BENGAL

Ph: 03222- 276554/276555/276557/276558

### Meeting

Date- 02.08.2023

Ph.D. in Santali Research Advisory Committee Meeting held on- 02.08.2023 at 11.00. A.M. to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 4<sup>th</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

### RAC for Anjali Dolai-

1. **Dr. Ratan Hembram**- Ex-Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U. *Ratan Hembram 02-08-23*
2. **Dr. Dulee Hembrom**- Supervisor / Convener - *Dulee Hembrom 02-08-23*
3. **Dr. Pramode Kr. Prasad**- Internal Member - *Pramode Kr. Prasad 02/08/23*
4. **Dr. Palton Murmu**- External Expert - *Palton Murmu 02/08/2023*
5. **Candidate- Anjali Dolai**- P.T.- Research Scholar in Santali, V.U.- *Anjali Dolai 02.08.2023*

**Resolutions :-** 1. Three (3) Member 4<sup>th</sup> RAC- Ph.D. Committee in Santali Meeting is held today on- 02.08.2023 at 11.00. A.M. to Onwards of the candidate- **Anjali Dolai**- Part-Time Research Scholar in Santali, Dept. of Santali, V.U.

2. 4<sup>th</sup> RAC- Members of the candidate- **Anjali Dolai**- P.T.R.S.- ask her to present her last six months Ph.D. thesis work progress. Member check her written thesis and told her for needful suggestions and corrections and ask to complete her thesis writing within one month or before six months.
3. Three (3) Member 4<sup>th</sup> RAC- Meeting ended with the vote of thanks given by Supervisor/Convener- Dr. Dulee Hembrom.

*Dulee Hembrom 02-08-23*

*Ratan Hembram 02-08-23*

Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University Midnapore, W.B.



Half yearly

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in ..... **SANTALI**  
For the period from **21-02-2023** to **02-08-2023**

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : **ANJALI DOLAI**
2. Name of Supervisor(s) : **DR. DULSE HEMBROM**
3. Date of Registration for Ph.D. Degree : **16.07.2021**
4. Title of Research Work : **ସଂସ୍କୃତିର ଉପଲବ୍ଧି ଓ ପ୍ରଭାବ ଉପରେ ଗବେଷଣା**  
**ବ୍ୟବହାର ନିୟମାବଳୀ: ଉପରୋକ୍ତ ପ୍ରସଙ୍ଗରେ**
5. Details in respect of Research work carried out during the above mentioned period:

Yours Sincerely,

*Anjali Dolai*

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

*[Signature]*  
02/08/23

Signature of the Supervisor (s)

*[Signature]*  
02-08-23

Secretary

Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

Half yearly

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21.02.2023 to 02.08.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : ANJALI DOLAI
2. Name of Supervisor(s) : DR. DULEE HEMBROM
3. Date of Registration for Ph.D. Degree : 16.07.2021
4. Title of Research Work : কম্পিউটার যন্ত্রের উপর ভিত্তি করে  
নবায়ন : নতুন প্রোগ্রামিং
5. Details in respect of Research work carried out during the above mentioned period:

Yours Sincerely,

Anjali Dolai

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

D. Hembrom  
12-08-23  
Signature of the Supervisor (s)

Hembrom  
12-08-23  
Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B.

D. Hembrom  
12-08-23  
Counter signed by the Dean of the concerned Faculty

D. Hembrom  
12-08-23  
Dean (Acting)  
Faculty of Arts & Commerce  
VIDYASAGAR UNIVERSITY  
Midnapore-721102

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature



Date- 02.08.2023

**Meeting**

Ph.D. Committee in Santali Three (3) Member RAC Committee Meeting held on- 02.08.2023 at 11.00. A.M. to onwards for Three (3) F.T.R.S.- i) Anadi Krishna Saren, ii) Soleman Saren, & iii) Parboti Hansda, and Two (2) P.T.R.S.- i) Aampa kr. Hembrom & ii) Anjali Dolai, in the Departmental Head room in offline mode.

**Agenda:**

1. Ph.D. in Santali Three (3) Member RAC Committee Meeting.
2. Miss.

**Member Present in the Meeting:**

<u>Sl. No.</u>	<u>Member</u>	<u>Signature/Attended</u>
1.	Prof. Tapan Kumar De- Chairmen-	
2.	Dr. Ratan Hembram- Ex-officio Secretary-	
3.	Prof. Indranil Acharya – Internal Member- (Dept. of English, V.U.)	
4.	Dr. Pramode Kr. Prasad- Internal Member- (Dept. of Hindi, V.U.)	
5.	Dr. Fatik Murmu- External Member- (Dept. of Santali, B.U., Bankura, W.B.)	
6.	Dr. Palton Murmu- External Member- (Dept. of Santali, S.K.B.U., Purulia, W.B.)	
7.	Dr. Dulee Hembrom- Internal Invitee Member-	
8.	Dr. Khudiram Murmu- Internal Invitee Member-	

*Handwritten signatures and dates:*  
 02-08-23  
 02/08/23  
 02/08/23  
 02/08/23  
 02-08-23  
 02/08/23

- Resolutions:-**
1. We Ph.D. in Santali, Ph.D. Committee Member, V.U. proposed the name of the Chairman of Prof. Indranil Acharya, Dept. of English, V.U.
  2. We Ph.D. Committee Member go through the last meeting held on- 10.05.2023 agenda we discuss and unanimously confirm the last RAC Meeting.
  3. We again scrutiny, observe the thesis of three (3)- Full-time Research Scholar and Two (2)- Part-Time Research Scholars, discuss with the concerned Ph.D. Scholar and correct the thesis & resolved in the Ph.D. Committee in Santali that three (3)- Members RAC- Committee meeting is held today on- 02.08.2023 at 11.00. A.M. to onwards for- three (3)- F.T.R.S.- as- i) Anadi Krishna Saren, ii) Soleman Saren- Supervisor- Dr. Ratan Hembram, Asst. Prof. & Head, Dept. of Santali, V.U. iii) Parboti Hansda- Supervisor- Dr. Dulee Hembrom, Asst. Prof., Dept. of Santali, V.U. and Two (2)- P.T.R.S.- as- i) Anjali Dolai- Supervisor- Dr. Dulee Hembrom, Asst. Prof., Dept. of Santali, V.U., ii) Aampa Kumar Hembrom- Supervisor- Dr. Ratan Hembram, Asst. Prof. & Head, Dept. of Santali, V.U.- We all RAC-Member checkup the candidate's thesis and ask for needful correction.
  4. Meeting ended with the vote of thanks by the Ph.D. in Santali- Secretary- Dr. Ratan Hembram, Asst. Prof. & Head, Dept. of Santali, V.U.

*Handwritten signature:*  
 02-08-23  
 Secretary





# VIDYASAGAR UNIVERSITY

MIDNAPORE -721 102, WEST BENGAL

Ph: 03222- 276554/276555/276557/276558

## Meeting

Date- 02.08.2023

Ph.D. in Santali Research Advisory Committee Meeting held on- 02.08.2023 at 11.00. A.M. to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 4<sup>th</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

## RAC for Anadi Krishna Saren

1. **Dr. Ratan Hembram-** Ex-Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U. *Hembram 02-08-23*
2. **Dr. Ratan Hembram-** Supervisor / Convener - *Hembram 02-08-23*
3. **Dr. Pramode Kr. Prasad-** Internal Member - *Prasad 02/08/23*
4. **Dr. Fatik Murmu-** External Expert - *Fatik 2/8/23*
5. **Candidate- Anadi Krishna Saren-** F.T. Research Scholar in Santali, V.U.- *Anadi Krishna Saren 2-8-23*

**Resolutions:-** 1. Three (3) Member 4<sup>th</sup> RAC -Ph.D. Committee in Santali Meeting is held today on- 02.08.2023 at 11.00. A.M. to Onwards of the Candidate- **Anadi Krishna Saren-** Full-Time Research Scholar in Santali, Dept. of Santali, V.U.

2. 4<sup>th</sup> RAC- Members of the Candidate- **Anadi Krishna Saren-** F.T.R.S.- ask him to present his last six months Ph.D. Thesis works progress. Members check his written thesis and told him for needful suggestions & correction and ask complete his thesis writing within one month or before six months.
3. Three (3) Members 4<sup>th</sup> RAC- Meeting ended with the vote thanks given by Supervisor/Convener- Dr. Ratan Hembram.

*Hembram 02-08-23*  
Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B

Half yearly

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21-02-2023 to 02-08-2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : ANADI KRISHNA SAREN
2. Name of Supervisor(s) : DR. RATAN HEMBRAM
3. Date of Registration for Ph.D. Degree : 16-07-2021
4. Title of Research Work : "ସଂସ୍କୃତ କବିତାରେ ଶବ୍ଦର ସ୍ୱରୂପ ଓ ତାହାର ପ୍ରାସଙ୍ଗିକତା"
5. Details in respect of Research work carried out during the above mentioned period: ସଂସ୍କୃତ କବିତାରେ ଶବ୍ଦର ସ୍ୱରୂପ ଓ ତାହାର ପ୍ରାସଙ୍ଗିକତା

Yours Sincerely,

Anadi Krishna Saren  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

Signature of the Supervisor (s)  
DR. RATAN HEMBRAM  
02/08/23

Counter signed by the Dean of the concerned Faculty

Signature of the Dean (Acting)  
Faculty of Arts & Commerce  
VIDYASAGAR UNIVERSITY  
Midnapore-721102

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any

Signature

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21-02-2023 to 02-08-2023.

I submit herewith the progress report of my Ph.D. research work for your kind information.

- Yours Sincerely,

Comments of the Supervisor (s) and Dean of the Faculty

- Any other comment of the Supervisor(s):

Counter signed by the Dean of the concerned Faculty

Signature



**VIDYASAGAR UNIVERSITY**  
MIDNAPORE -721 102, WEST BENGAL  
Ph: 03222- 276554/276555/276557/276558

**Meeting**

Date- 02.08.2023

Ph.D. in Santali Research Advisory Committee Meeting held on- 02.08.2023 at 11.00. A.M. to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 4<sup>th</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

**RAC for Soleman Saren-**

1. Dr. Ratan Hembram- Ex-Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U.-

*Ratan Hembram*  
02-08-23

2. Dr. Ratan Hembram- Supervisor / Convener -

*Ratan Hembram*  
02-08-23

3. Dr. Dulee Hembrom- Internal Invitee Member -

*Dulee Hembrom*  
02-08-23

4. Dr. Palton Murmu- External Expert -

*Palton Murmu*  
02/08/2023.

5. Candidate- Soleman Saren- F.T. Research Scholar in Santali, V.U.-

*Soleman Saren*  
2/08/23

**Resolutions** :- 1. Three (3) Member 4<sup>th</sup> RAC- Ph.D. Committee in Santali Meeting is held today on- 02.08.2023 at 11.00. A.M. to Onwards of the candidate- **Soleman Saren**- Full-Time Research Scholar in Santali, Dept. of Santali, V.U.

2. 4<sup>th</sup> RAC- Members of the candidate- **Soleman Saren**- F.T.R.S.- ask him to present his last Six months Ph.D. thesis written works progress. Members check his written thesis and told him for needful suggestions and correction and also ask him to complete his thesis writing within 31.08.2023 and after Pre-Submission they may submit before Six months.

3. Three (3) Member 4<sup>th</sup> RAC- Meeting ended with the vote of thanks given by Supervisor/Convener- Dr. Ratan Hembram.

*Ratan Hembram*  
02-08-23  
Secretary

Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B



QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21-02-2023 to 02-08-2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SOLEMAN SAREN
2. Name of Supervisor(s) : DR. RATAN HEMBRAM
3. Date of Registration for Ph.D. Degree :
4. Title of Research Work : 'SANTALI, SANHED RE DR. DHIREN  
DRANATH BOSKEY MID PAPAR HAW'
5. Details in respect of Research work carried out during the above mentioned period:

Yours Sincerely,

Soleman Saren  
Signature of the Research Scholar

Comments of the Supervisor(s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☐ Fair ☐ Poor ☒
6. Amenability to discipline:  
Good ☐ Fair ☒ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☒ Poor ☐
8. Overall Grading:  
Good ☐ Fair ☒ Poor ☐

Any other comment of the Supervisor(s):

[Signature]  
02/08/2023

[Signature]  
02-08-23  
Signature of the Supervisor (s)

[Signature]  
02-08-23

Counter signed by the Dean of the concerned

Dean (Acting)  
Faculty of Arts & Commerce  
VIDYASAGAR UNIVERSITY  
Midnapore-721102

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued. Yes ☐ No ☐

Comments if any:

Signature

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21-02-2023 to 02-08-2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SOLEMAN SAREN
2. Name of Supervisor(s) : DR. RATAN HEMBRAM
3. Date of Registration for Ph.D. Degree : \_\_\_\_\_
4. Title of Research Work : "SANTALI SANHED RE DR. DHIREN DRA NATH BASKEY MID. PARARHAN"
5. Details in respect of Research work carried out during the above mentioned period:  
\_\_\_\_\_  
\_\_\_\_\_

Yours Sincerely,

Soleman Saren  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☒ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☐ Fair ☐ Poor ☒
6. Amenability to discipline:  
Good ☐ Fair ☒ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☒ Poor ☐
8. Overall Grading:  
Good ☐ Fair ☒ Poor ☐

Any other comment of the Supervisor(s):

[Signature]  
Signature of the Supervisor (s)

[Signature]  
Counter signed by the Dean of the concerned Faculty

Dean (Acting)  
Faculty of Arts & Commerce  
VIDYASAGAR UNIVERSITY  
Midnapore-721102

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature



**VIDYASAGAR UNIVERSITY**  
MIDNAPORE -721 102, WEST BENGAL  
Ph: 03222- 276554/276555/276557/276558




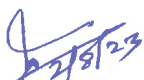

**Meeting**

Date- 02.08.2023

Ph.D. in Santali Research Advisory Committee Meeting held on- 02.08.2023 at 11.00. A.M. to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 3<sup>rd</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

**RAC for Aampa Kr. Hembrom-**


1. **Dr. Ratan Hembram**- Ex-Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U. 
2. **Dr. Ratan Hembram**- Supervisor / Convener - 
3. **Prof. Indranil Acharya**- Internal Member - 
4. **Dr. Fatik Murmu**- External Expert - 
5. **Candidate- Aampa Kr. Hembrom**- P.T. Research Scholar in Santali, V.U.- 

**Resolutions :-** 1. Three (3) Members 3<sup>rd</sup> RAC- Ph.D. Committee in Santali Meeting is

Held today on- 02.08.2023 at 11.00. A.M. to Onwards of the Candidate- **Aampa**

**Kumar Hembrom**- Part-Time Research Scholar in Santali, Dept. of Santali, V.U.

2. 3<sup>rd</sup> RAC- Members of the Candidate- **Aampa Kumar Hembrom**- P.T.R.S.- ask him to present his last Six months Ph.D. thesis written works progress. Members check his written thesis and told him for needful suggestions and corrections and also ask him to complete his thesis writing as soon as possible.
3. Three (3) Member 3<sup>rd</sup> RAC- Meeting ended with the vote of thanks given by Supervisor/Convener- Dr. Ratan Hembram.

  
Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B.



QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21.2.2023 to 2.8.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : AAMPA KUMAR HEMBROM
2. Name of Supervisor(s) : DR. RATAN HEMBRAM
3. Date of Registration for Ph.D. Degree : 02.12.2021
4. Title of Research Work : "KOROGA BODDAG BODDA KO: YAI EP DRODHO"  
"SANTAL KOROGA KARI KO: MIT. PAPARHAW"
5. Details in respect of Research work carried out during the above mentioned period:  
.....  
.....

Yours Sincerely,

Aampa Kumar Hembrom  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

[Signature]  
02/08/2023

[Signature]  
02/08/23  
Signature of the Supervisor (s)

[Signature]  
2/8/23

Counter signed by the Dean of the concerned Faculty

[Signature]  
Dean (Acting)  
Faculty of Arts & Commerce  
VIDYASAGAR UNIVERSITY  
Midnapore-721102

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

# QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in ..... SANTALI .....  
For the period from 21.2.2023 to 2.8.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : AAMPA KUMAR HEMBROM
2. Name of Supervisor(s) : DR. RATAN HEMBROM
3. Date of Registration for Ph.D. Degree : 02.12.2021
4. Title of Research Work : "KOTOMABOZONG BANA BO: KASIPORONG-02"  
SANTAL KOWAG KARI KO: MIT PAPARHAW"
5. Details in respect of Research work carried out during the above mentioned period:  
.....  
.....

Yours Sincerely,

Aampa Kumar Hembrom  
Signature of the Research Scholar

## Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☒ Fair ☐ Poor ☐
5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

9.2.21 July  
02/08/2023

Ratan Hembrom  
2-8-23  
Signature of the Supervisor (s)

I  
2/8/23

Counter signed by the Dean of the concerned Faculty

Dean (Acting)  
Faculty of Arts & Commerce  
VIDYASAGAR UNIVERSITY  
Midnapore-721102

## Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature







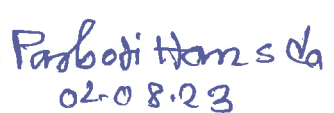
**Meeting**

Date- 02.08.2023

Ph.D. in Santali Research Advisory Committee Meeting held on- 02.08.2023 at 11.00. A.M. to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 4<sup>th</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

**RAC for Parboti Hansda-**

1. **Dr. Ratan Hembram**- Ex- Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U.  02-08-23
2. **Dr. Dulee Hembrom**- Supervisor /Convener -  02-08-23
3. **Dr. Khudiram Murmu**- Internal Invitee Member -  02/08/23
4. **Dr. Fatik Murmu**- External Expert -  02/8/23
5. **Candidate- Parboti Hansda**- F.T. / P.T. Research Scholar in Santali, V.U.-  02-08-23

**Resolutions :-** 1. Three (3) Members 4<sup>th</sup> RAC- Ph.D. Committee in Santali Meeting is

held today on- 02.08.2023 at 11.00. A.M. to Onwards of the candidate- **Parboti**

**Hansda**- Full-Time Research Scholar in Santali, Dept. of Santali, V.U.

2. 4<sup>th</sup> RAC- Members of the candidate- **Parboti Hansda**- F.T.R.S.- ask her to present her last six months Ph.D. thesis written works progress. Members check her written thesis and told her for needful suggestions and corrections and ask her to complete her thesis writing within one month or before six months and after Pre-Submission they may Submit her thesis to the University for final processing.
3. Three (3) Members 4<sup>th</sup> RAC- Meeting ended with the vote of thanks given by Supervisor/Convener- Dr. Dulee Hembrom.

 02-08-23

 02-08-23  
Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B.



Half yearly

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21.02.2023 to 02.08.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : PARBOTI HANSDA
2. Name of Supervisor(s) : DR. DULEE HEMBROM
3. Date of Registration for Ph.D. Degree : 16.07.2021
4. Title of Research Work : "உலர்ந்த நிலத்தில் நீர் புகுவிடுதல்: 47 ஓர் பி.டி. பரவியல்" (Santal, Sanhed, De Patham, Ka: Mid. Pa. Parhaw)
5. Details in respect of Research work carried out during the above mentioned period:

Yours Sincerely,

Parboti Hansda  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☐ Fair ☒ Poor ☐
6. Amenability to discipline:  
Good ☐ Fair ☒ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

1st of 23

Dulee Hembrom  
02-08-23  
Signature of the Supervisor (s)

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature

Half yearly

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 21.02.2023 to 02.08.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : PARBATI HANSDA
2. Name of Supervisor(s) : DR. DUEE HEMBROM
3. Date of Registration for Ph.D. Degree : 16.07.2021
4. Title of Research Work : "ସାନ୍ତାଲୀ ସାମ୍ବେଦନଶୀଳତା ପ୍ରଣାଳୀର ମଧ୍ୟମରେ ସାମ୍ବେଦନଶୀଳତା ପ୍ରଣାଳୀର ମଧ୍ୟମରେ ସାମ୍ବେଦନଶୀଳତା ପ୍ରଣାଳୀର ମଧ୍ୟମରେ"
5. Details in respect of Research work carried out during the above mentioned period:

Yours Sincerely,

Parbati Hansda  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
3. Quality of Research Work:  
Good ☒ Fair ☐ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
5. Punctuality in attendance:  
Good ☐ Fair ☒ Poor ☐
6. Amenability to discipline:  
Good ☐ Fair ☒ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☒ Fair ☐ Poor ☐
8. Overall Grading:  
Good ☒ Fair ☐ Poor ☐

Any other comment of the Supervisor(s):

[Signature]  
21/8/23

[Signature]  
01-08-23  
Signature of the Supervisor (s)

[Signature]  
Counter signed by the Dean of the concerned Faculty  
Vidyasagar University  
Midnapore-721102

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any:

Signature



**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721 102, WEST BENGAL  
Ph: 03222- 276554/276555/276557/276558

Memo No.: VU/SNT/Ph.D./RAC/

/2024



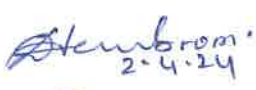

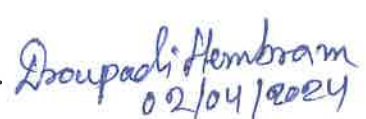
Date- 02.04.2024

**Meeting**

Ph.D. in Santali Research Advisory Committee Meeting held on- **02.04.2024 at 11.00. A.M.** to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 3<sup>rd</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

**RAC for Droupadi Hembram-**

1. **Dr. Ratan Hembram**-Ex- Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U. 
2. **Dr. Khudiram Murmu**-Supervisor /Convener - 
3. **Dr. Dulee Hembrom**- Internal Invitee Member- 
4. **Dr. Palton Murmu**-External Expert- 
5. **Candidate- Droupadi Hembram**- F.T.Research Scholar in Santali, V.U.- 

**Resolutions :**

1. Three (3) Member RAC – Ph.D. Committee in Santali Meeting is held today on – **02-04-2024** at 11.00 A.M. to Onwards of the candidate – Droupadi Hembram – Full Time Research Scholar in Santali, Dept. of Santali, V.U.
2. RAC – Members of the candidate – Droupadi Hembram – ask him questions one by one for his last six (6) months Ph.D. works progress presentation. Members check up his written thesis and told him for needful correction in proportionately way.
3. Three (3) Member RAC – Meeting ended with the vote of thanks given by Supervisor / Convener – Dr. Khudiram Murmu.

  
02-04-24

Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University Midnapore. W.B



QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 12/12/2023 to 02/04/2024

Sir,



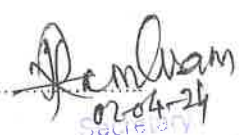
I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : DROUPADI HEMBRAM
2. Name of Supervisor(s) : DR. KHUDIRAM MURMU
3. Date of Registration for Ph.D. Degree : 20.09.2022
4. Title of Research Work : କଥାବୋଧ ଓ ଅନ୍ୟାନ୍ୟ ସ୍ତରୀୟ ଗ୍ରନ୍ଥମାନଙ୍କର ସାମାଜିକ ଓ ସାଂସ୍କୃତିକ ପ୍ରାମାଣ୍ୟତା (SANTALI ORICHALI RE-PANCHET BURU AR PANCHET DEM: MID PANCHAW)
5. Details in respect of Research work carried out during the above mentioned period:  
Among the research work carried out during the said period, I have done most of the work on the Sixth chapter in the last three months after the previous works.

Yours Sincerely,

*Droupadi Hembram*

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
1. General intelligence & keenness to learn:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
2. Initiative, Drive and Resourcefulness:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
3. Quality of Research Work:	Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/>
4. Willingness to shoulder additional responsibility and put in extra efforts:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
5. Punctuality in attendance:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
6. Amenability to discipline:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
8. Overall Grading:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
Any other comment of the Supervisor(s):	
<div style="display: flex; justify-content: space-between;"><div> 02/04/2024 Signature of the Supervisor (s)</div><div> 02/04/24 Signature of the Dean of the concerned Faculty</div><div> 02-04-24 Secretary</div></div>	
Ph.D. Committee, Dept. of Santali Vidyasagar University, Midnapore, W.B.	

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any

Signature





**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721 102, WEST BENGAL  
Ph: 03222- 276554/276555/276557/276558

Memo No.: VU/SNT/Ph.D./RAC/

/2024

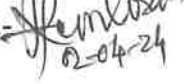

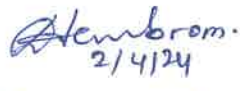


Date- 02.04.2024

**Meeting**

Ph.D. in Santali Research Advisory Committee Meeting held on- **02.04.2024 at 11.00. A.M.** to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 3<sup>rd</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

**RAC for Bimal Besra-**

1. **Dr. Ratan Hembram**-Ex-Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U. 
2. **Dr. Khudiram Murmu**-Supervisor / Convener - 
3. **Dr. Dulee Hembrom**- Internal Invitee Member - 
4. **Dr. Palton Murmu**-External Expert- 
5. **Candidate- Bimal Besra**-F.T. Research Scholar in Santali, V.U.- 

**Resolutions :**

1. Three (3) Member RAC – Ph.D. Committee in Santali Meeting is held today on – 02-04-2024 at 11.00 A.M. to Onwards of the candidate – Bimal Besra – Full Time Research Scholar in Santali, Dept. of Santali, V.U.
2. RAC – Members of the candidate – Bimal Besra – ask him questions one by one for his last six (6) months Ph.D. works progress presentation. Members check up his written thesis and told him for needful correction in proportionately way.
3. Three (3) Member RAC – Meeting ended with the vote of thanks given by Supervisor / Convener – Dr. Khudiram Murmu.

  
02-04-24  
Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B.



QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 11.09.2023 to 02.04.2024

I submit herewith the progress report of my Ph.D. research work for your kind information.

- Yours Sincerely,

Signature of the Research Scholar

Ph.D. Committee, Dept. of Sanskrit  
Vidyasagar University, Midnapore, W.B.

Signature



**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721 102, WEST BENGAL  
Ph: 03222- 276554/276555/276557/276558

Memo No.: VU/SNT/Ph.D./RAC/

/2024


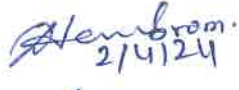

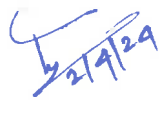

Date- 02.04.2024

**Meeting**

Ph.D. in Santali Research Advisory Committee Meeting held on- **02.04.2024 at 11.00. A.M.** to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 3<sup>rd</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

**RAC for Jayashree Mahata-**

1. **Dr. Ratan Hembram**-Ex-Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U.- 
2. **Dr. Dulee Hembram**-Supervisor / Convener - 
3. **Dr. Pramode Kumar Prasad**-Internal Member - 
4. **Dr. Fatik Murmu**-External Expert- 
5. **Candidate- Jayashree Mahata** -F.T. Research Scholar in Santali, V.U.- 

**Resolutions :**

1. Three (3) Member RAC – Ph.D. Committee in Santali Meeting is held today on – 02-04-2024 at 11.00 A.M. to Onwards of the candidate – Jayashree Mahata – Full Time Research Scholar in Santali, Dept. of Santali, V.U.
2. RAC – Members of the candidate – Jayashree Mahata – ask him questions one by one for his last six (6) months Ph.D. works progress presentation. Members check up his written thesis and told him for needful correction in proportionately way.
3. Three (3) Member RAC – Meeting ended with the vote of thanks given by Supervisor / Convener – Dr. Dulee Hembram.

  
Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B.

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 12.12.2023 to 02.04.2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : JAYASHREE MAHATA
2. Name of Supervisor(s) : DR. DULEE HEMBROM
3. Date of Registration for Ph.D. Degree : 20.09.2022
4. Title of Research Work : কম্পিউটার-ভিত্তিক কল্যাণের ওপর ন্যায়  
এবং এর প্রয়োগ
5. Details in respect of Research work carried out during the above mentioned period:  
Among the research work carried out during the said period, I have  
done most of the work on the 4th chapter in the last three months  
after the previous works.

Yours Sincerely,

Jayashree Mahata

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
  2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☐ Poor ☒
  3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
  4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☐ Poor ☒
  5. Punctuality in attendance:  
Good ☐ Fair ☐ Poor ☒
  6. Amenability to discipline:  
Good ☐ Fair ☒ Poor ☐
  7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☒ Poor ☐
  8. Overall Grading:  
Good ☐ Fair ☒ Poor ☐
- Any other comment of the Supervisor(s):

2/4/24

Hembrom  
2/4/24  
Signature of the Supervisor (s)

3/4/24  
Hembrom  
02-04-24

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any

Signature



QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 12.09.2023 to 11.12.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : JAYASHREE MAHATA
2. Name of Supervisor(s) : DR. DULEE HEMBROM
3. Date of Registration for Ph.D. Degree : 20.09.2022
4. Title of Research Work : "ସଂସ୍କୃତ-ବିଦ୍ୟାବଳୀର ଓଡ଼ିଆ ଅନୁବାଦ"  
"ସଂସ୍କୃତ-ବିଦ୍ୟାବଳୀର ଓଡ଼ିଆ ଅନୁବାଦ"
5. Details in respect of Research work carried out during the above mentioned period:  
Among the research work carried out during the said period, I have done  
most of the work on the 4th chapter in the last three months after  
the previous works.

Yours Sincerely,

Jayashree Mahata

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☐ Poor ☒
3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☐ Poor ☒
5. Punctuality in attendance:  
Good ☐ Fair ☐ Poor ☒
6. Amenability to discipline:  
Good ☐ Fair ☒ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☒ Poor ☐
8. Overall Grading:  
Good ☐ Fair ☒ Poor ☐

Any other comment of the Supervisor(s):

2/4/24

Hembrom  
2/4/24  
Signature of the Supervisor (s)

Secretary  
2/4/24  
Secretary

Counter signed by the Dean of the concerned Faculty

Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any

Signature



Memo No.: VU/SNT/Ph.D./RAC/

/2024

Date- 02.04.2024

**Meeting**

Ph.D. in Santali Research Advisory Committee Meeting held on- **02.04.2024 at 11.00. A.M.** to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 3<sup>rd</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

**RAC for Deepali Majhi-**

1. **Dr. Ratan Hembram**-Ex-Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U. *Hembram 02-04-24*
2. **Dr. Ratan Hembram**-Supervisor / Convener - *Hembram 02-04-24*
3. **Dr. Pramode Kr. Prasad**- Internal Member- *Prasad 02/04/24*
4. **Dr. Palton Murmu**-External Expert- *Murmu 02/04/2024*
5. **Candidate- Deepali Majhi**-F.T. Research Scholar in Santali, V.U.- *Deepali Majhi 02.04.2024*

**Resolutions :**

1. Three (3) Member RAC – Ph.D. Committee in Santali Meeting is held today on – 02-04-2024 at 11.00 A.M. to Onwards of the candidate – Deepali Majhi – Full Time Research Scholar in Santali, Dept. of Santali, V.U.
2. RAC – Members of the candidate – Deepali Majhi – ask him questions one by one for his last six (6) months Ph.D. works progress presentation. Members check up his written thesis and told him for needful correction in proportionately way.
3. Three (3) Member RAC – Meeting ended with the vote of thanks given by Supervisor / Convener – Dr. Ratan Hembram.

*Hembram*  
02-04-24  
Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B.

Half Yearly  
QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 11.09.2023 to 02.04.2024


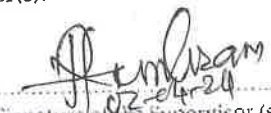
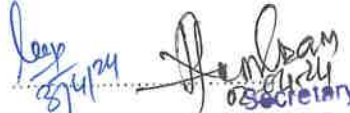
Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : DEEPAJI MAJHI
2. Name of Supervisor(s) : DR. RATAN HEMBRAM
3. Date of Registration for Ph.D. Degree : 24.08.2022
4. Title of Research Work : "ସଂସ୍କୃତ-ସଂସ୍କୃତ ଶବ୍ଦର ଧ୍ୱନି ବିଶ୍ଳେଷଣ"  
ଉପରୋକ୍ତ ଶବ୍ଦର ଧ୍ୱନି ବିଶ୍ଳେଷଣ"
5. Details in respect of Research work carried out during the above mentioned period:  
Among the research work carried out during the said period, I have done most of the work on the 4th and 5th chapters in last six month of the previous work.

Yours Sincerely,

Deepali Majhi  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
<ol style="list-style-type: none"> <li>1. General intelligence &amp; keenness to learn: Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/></li> <li>2. Initiative, Drive and Resourcefulness: Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/></li> <li>3. Quality of Research Work: Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/></li> <li>4. Willingness to shoulder additional responsibility and put in extra efforts: Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/></li> <li>5. Punctuality in attendance: Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/></li> <li>6. Amenability to discipline: Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/></li> <li>7. Relations with colleagues and teachers (willingness to co-operate and collaborate): Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/></li> <li>8. Overall Grading: Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/></li> </ol> <p>Any other comment of the Supervisor(s):</p> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 30%;">   <u>20/04/2024</u> </div> <div style="width: 30%; text-align: center;">               Signature of the Supervisor (s)           </div> <div style="width: 30%; text-align: center;">               Secretary              Ph.D. Committee, Dept. of Sanskrit              Vidyasagar University, Midnapore, W.B.           </div> </div> <p style="text-align: center;">Counter signed by the Dean of the concerned Faculty</p>	

Decision of Board of Research Studies (BRS) or Chairman of BRS	
Stipend to be continued: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Comments, if any:	
Signature	





Memo No.: VU/SNT/Ph.D./RAC/07/2024

Date- 02.04.2024

**Meeting**





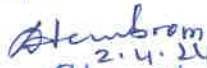
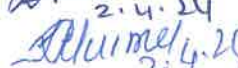
Ph.D. Committee in Santali Three (3) Member 3<sup>rd</sup> RAC Committee Meeting will be held on- 02.04.2024 at 11.00. A.M. to onwards for Four (4) F.T.R.S.- i) **Droupadi Hembram**, ii) **Jayashree Mahata**, & iii) **Deepali Majhi** and iv) **Bimal Besra**, in the Departmental Head room in offline mode.

**Agenda:**

1. Ph.D. in Santali Three (3) Member RAC Committee Meeting.
2. Miss.

**Member Present in the Meeting:**

<u>Sl. No.</u>	<u>Member Signature/Attended</u>
----------------	----------------------------------

- |  |  |
|--|--|
| 1. Prof. Debasish Mondal - Chairmen-   |  |
| 2. Dr. Ratan Hembram - Ex-officio Secretary-   | <br>02-04-24     |
| 3. Prof. Indranil Acharya – Internal Member-<br>(Dept. of English, V.U.)             |  |
| 4. Dr. Pramode Kr. Prasad- Internal Member-<br>(Dept. of Hindi, V.U.)                | <br>24/4/24      |
| 5. Dr. Fatik Murmu – External Member-<br>(Dept. of Santali, B.U., Bankura, W.B.)     | <br>24/4/24     |
| 6. Dr. Palton Murmu- External Member-<br>(Dept. of Santali, S.K.B.U., Purulia, W.B.) | <br>02/04/2024 |
| 7. Dr. Dulee Hembram- Internal Invitee Member-                                       | <br>2.4.24     |
| 8. Dr. Khudiram Murmu- Internal Invitee Member-                                      | <br>24.4.24    |

**Resolutions :**

1. First of all, we members Ph.D. Committee in Santali, V.U. proposed the name of the Chairman of Dr. Pramode Kumar Prasad, Associate Professor, Dept. of Hindi V.U. was take places.
2. Secondly we go through the last meeting held on 11-09-2023 Agenda, we discuss and unanimously confirm the meeting.
3. We again Scrutiny, Observe and Discuss regarding the thesis of four (4) Full Time Research Scholars written thesis and correct the thesis and resolved in the Ph.D. Committee in Santali that three (3) Members RAC – Committee Meeting is held today on 02-04-2024 at 11.00 A.M. to Onwards for Four (4) F.T.R.S. – as – (i) Droupadi Hembram – Supervisor – Dr. Khudiram Murmu , (ii) Jayashree Mahata – Supervisor - Dr. Dulee Hembram, (iii) Deepali Majhi – Supervisor – Dr. Ratan Hembram, & (iv) Bimal Besra – Supervisor – Dr. Khudiram Murmu. We all RAC – Members check up the candidate's thesis and ask for needful correction.
4. Meeting ended with the vote of thanks by the Ph.D. in Santali – Ex-Officio Secretary – Dr. Ratan Hembram, Associate Professor & Head, Dept. of Santali, V.U.

  
02-04-24  
Secretary

Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B



**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721 102, WEST BENGAL  
Ph: 03222- 276554/276555/276557/276558

Memo No.: VU/SNT/Ph.D./RAC/

/2024

Date- 03.04.2024

**Meeting**

Ph.D. in Santali Research Advisory Committee Meeting held on- 03.04.2024 at 11.00. A.M. to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 3<sup>rd</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

**RAC for Shyam Charan Tudu-**

1. Dr. Ratan Hembram-Ex-Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U.

2. Dr. Dulee Hembrom-Supervisor / Convener -

3. Dr. Khudiram Murmu-Internal Invitee Member -

4. Dr. Palton Murmu-External Expert-

5. Candidate- Shyam Charan Tudu- P.T. Research Scholar in Santali, V.U.-

**Resolutions :**

1. Three (3) Member RAC – Ph.D. Committee in Santali Meeting is held today on – 03-04-2024 at 11.00 A.M. to Onwards of the candidate – Shyam Charan tudu – Part Time Research Scholar in Santali, Dept. of Santali, V.U.
2. RAC – Members of the candidate – Shyam Charan Tudu – ask him questions one by one for his last six (6) months Ph.D. works progress presentation. Members check up his written thesis and told him for needful correction in proportionately way.
3. Three (3) Member RAC – Meeting ended with the vote of thanks given by Supervisor / Convener – Dr. Dulee Hembrom.

  
Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, V.

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 002,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 12.09.2023 to 11.12.2023

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SHYAM CHARAN TUDU
2. Name of Supervisor(s) : DR. DULEE HEMBROM
3. Date of Registration for Ph.D. Degree : 20/09/2022
4. Title of Research Work : DR. DULEE HEMBROM : 478 578 578 578

5. Details in respect of Research work carried out during the above mentioned period:  
Among the research work carried out during the said period I have done almost the work on 7th chapter during the last three months.

Yours Sincerely,

Shyam Charan Tudu  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☒ Fair ☐ Poor ☐
  2. Initiative, Drive and Resourcefulness:  
Good ☒ Fair ☐ Poor ☐
  3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
  4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☒ Poor ☐
  5. Punctuality in attendance:  
Good ☒ Fair ☐ Poor ☐
  6. Amenability to discipline:  
Good ☒ Fair ☐ Poor ☐
  7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☒ Poor ☐
  8. Overall Grading:  
Good ☐ Fair ☒ Poor ☐
- Any other comment of the Supervisor(s):

Hembrom  
Signature of the Supervisor (s)

31.12.24  
Signature of the Supervisor (s)

3.4.24  
Secretary

Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any

Signature



QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To  
The Registrar  
Vidyasagar University,  
Midnapore - 721 102,  
West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 12.12.2023 to 03.04.2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SHYAM CHARAN TUDU  
2. Name of Supervisor(s) : DR. DULEE HEMBROM  
3. Date of Registration for Ph.D. Degree : 20/9/2022

4. Title of Research Work : ଏକାଧାରୀ ସମାଜର ସାମାଜିକ ସ୍ଥିତି  
ଏକାଧାରୀ ସମାଜର ସାମାଜିକ ସ୍ଥିତି

5. Details in respect of Research work carried out during the above mentioned period:  
Among the research work carried out during the said period  
I have done almost the work on 5th chapter during the last  
three months.

Yours Sincerely,

Shyam Charan Tudu  
Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☐ Poor ☐  
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☐ Poor ☐  
3. Quality of Research Work:  
Good ☐ Fair ☐ Poor ☐  
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☐ Poor ☐  
5. Punctuality in attendance:  
Good ☐ Fair ☐ Poor ☐  
6. Amenability to discipline:  
Good ☐ Fair ☐ Poor ☐  
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☐ Poor ☐  
8. Overall Grading:  
Good ☐ Fair ☐ Poor ☐  
Any other comment of the Supervisor(s):

10/3/2024

Hembrom  
31/4/24  
Signature of the Supervisor (s)

Shyam  
3-4-24

03-04-24

Secretary  
Ph.D. Committee, Dept. of Sa  
Vidyasagar University, Midnapore

Counter signed by the Dean of the concerned Faculty

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any

Signature



**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721 102, WEST BENGAL  
Ph: 03222- 276554/276555/276557/276558

Memo No.: VU/SNT/Ph.D./RAC/ /2024




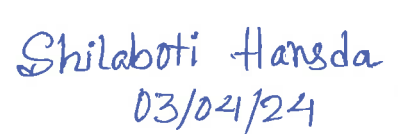
Date- 03.04.2024

**Meeting**

Ph.D. in Santali Research Advisory Committee Meeting held on- **03.04.2024 at 11.00. A.M.** to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 3<sup>rd</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

**RAC for Shilaboti Hansda-**

1. **Dr. Ratan Hembram**-Ex-Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U. 
2. **Dr. Khudiram Murmu**-Supervisor / Convener - 
3. **Prof. Indranil Acharya**-Internal Member -
4. **Dr. Fatik Murmu**-External Expert- 
5. **Candidate- Shilaboti Hansda**- F.T. Research Scholar in Santali, V.U.- 

**Resolutions :**

1. Three (3) Member RAC – Ph.D. Committee in Santali Meeting is held today on – 03-04-2024 at 11.00 A.M. to Onwards of the candidate – Shilaboti Hansda – Full Time Research Scholar in Santali, Dept. of Santali, V.U.
2. RAC – Members of the candidate – Shilaboti Hansda – ask him questions one by one for his last six (6) months Ph.D. works progress presentation. Members check up his written thesis and told him for needful correction in proportionately way.
3. Three (3) Member RAC – Meeting ended with the vote of thanks given by Supervisor / Convener – Dr. Khudiram Murmu

  
Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B.

HALF YEARLY

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To

The Registrar

Vidyasagar University,

Midnapore - 721 002,

West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 13/09/2023 to 03/04/2024

Sir,

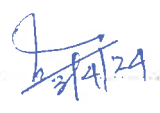


I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : SHILABOTI HANSDA
2. Name of Supervisor(s) : DR. KHUDIRAM MURMU
3. Date of Registration for Ph.D. Degree : 29/09/2022
4. Title of Research Work SANTALI AG LAKCHAR AAR PARIS: MID  
PAPARHAN "LAKCHAR AAR PARIS: MID PAPER"
5. Details in respect of Research work carried out during the above mentioned period:  
Among the research work carried out during the said period, I  
have done most of the work on the fourth chapter in the last six months  
after the Review works.

Yours Sincerely,

Shilaboti Hansda

Signature of the Research Scholar

Comments of the Supervisor (s) and Dean of the Faculty	
1. General intelligence & keenness to learn:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
2. Initiative, Drive and Resourcefulness:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
3. Quality of Research Work:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
4. Willingness to shoulder additional responsibility and put in extra efforts:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
5. Punctuality in attendance:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
6. Amenability to discipline:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
8. Overall Grading:	Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/>
Any other comment of the Supervisor(s):	
<div style="display: flex; justify-content: space-between;"><div> Signature of the Supervisor (s)</div><div> Counter signed by the Dean of the concerned Faculty</div><div> Secretary Ph.D. Committee, Dept. of Santali Vidyasagar University, Midnapore.</div></div>	

Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any

Signature





Memo No.: VU/SNT/Ph.D./RAC/ /2024

Date- 03.04.2024

**Meeting**

Ph.D. in Santali Research Advisory Committee Meeting held on- **03.04.2024 at 11.00. A.M.** to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 3<sup>rd</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

**RAC for Nilima Patra-**

1. **Dr. Ratan Hembram**-Ex-Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U.

*Ratan Hembram*  
03-04-2024

2. **Dr. Khudiram Murmu**-Supervisor / Convener -

*Khudiram Murmu*  
3.4.24

3. **Dr. Dulee Hembram**- Internal Invitee Member-

*Dulee Hembram*  
31/4/24

4. **Dr. Fatik Murmu**-External Expert-

*Fatik Murmu*  
31/4/24

5. **Candidate- Nilima Patra**-F.T. Research Scholar in Santali,V.U.-

*Nilima Patra*  
03.04.2024

**Resolutions :**

1. Three (3) Member RAC – Ph.D. Committee in Santali Meeting is held today on – 03-04-2024 at 11.00 A.M. to Onwards of the candidate – Nilima Patra – Full Time Research Scholar in Santali, Dept. of Santali, V.U.
2. RAC – Members of the candidate – Nilima Patra – ask him questions one by one for his last six (6) months Ph.D. works progress presentation. Members check up his written thesis and told him for needful correction in proportionately way.
3. Three (3) Member RAC – Meeting ended with the vote of thanks given by Supervisor / Convener – Dr. Khudiram Murmu

*Ratan Hembram*  
03-04-2024  
Secretary  
Ph.D. Committee, Dept. of Santali,  
Vidyasagar University Midnapore, W.B.

QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

Subj: Progress report for the Ph.D. Programme in ..... SANTALI .....  
For the period from 13.09.2023 to 03.04.2024

I submit herewith the progress report of my Ph.D. research work for your kind information.

5. Details in respect of Research work carried out during the above mentioned period:

*Nilima Patra*  
Signature of the Research Scholar

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**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721 102, WEST BENGAL  
Ph: 03222- 276554/276555/276557/276558

Memo No.: VU/SNT/Ph.D./RAC/

/2024

Date- 03.04.2024

**Meeting**

Ph.D. in Santali Research Advisory Committee Meeting held on- **03.04.2024 at 11.00. A.M.** to onwards in the Chamber of the Head, Department of Santali, V.U. to discuss verify and checked the following Ph.D. Scholars Thesis & forwarded for Ph.D. Progress of 3<sup>rd</sup> Six month to The Dean Arts & Com. and The Registrar, V.U.

Following RAC Members & Candidate are present in the Meeting.

**RAC for Kishun Saren-**

1. **Dr. Ratan Hembram**-Ex- Officio Secretary, Ph.D. Committee in Santali, Dept. of Santali, V.U. *Ratan Hembram 03-04-24*
2. **Dr. Ratan Hembram**-Supervisor /Convener - *Ratan Hembram 03-04-24*
3. **Dr. Pramode Kr. Prasad**- Internal Member- *Pramode Kr. Prasad 03/04/24*
4. **Dr. Palton Murmu**-External Expert- *Palton Murmu 03/04/2024*
5. **Candidate- Kishun Saren**-F.T. Research Scholar in Santali,V.U.- *Kishun Saren 03/04/2024*

**Resolutions :**

1. Three (3) Member RAC – Ph.D. Committee in Santali Meeting is held today on – 03-04-2024 at 11.00 A.M. to Onwards of the candidate – Kishun Saren – Full Time Research Scholar in Santali, Dept. of Santali, V.U.
2. RAC – Members of the candidate – Kishun Saren – ask him questions one by one for his last six (6) months Ph.D. works progress presentation. Members check up his written thesis and told him for needful correction in proportionately way.
3. Three (3) Member RAC – Meeting ended with the vote of thanks given by Supervisor / Convener – Dr. Ratan Hembram.

*Ratan Hembram*  
03-04-24  
**Secretary**

Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, West Bengal

# HALF YEARLY

## QUARTERLY PROGRESS REPORT OF THE RESEARCH SCHOLAR

To

The Registrar

Vidyasagar University,

Midnapore - 721 002,

West Bengal, India

Sub: Progress report for the Ph.D. Programme in SANTALI  
For the period from 13/09/2023 to 03/01/2024

Sir,

I submit herewith the progress report of my Ph.D. research work for your kind information.

1. Name of Research Scholar : KISHUN SAREN
2. Name of Supervisor(s) : DR. RATAN HEMBRAM
3. Date of Registration for Ph.D. Degree : 16.12.2022
4. Title of Research Work : "কম্পিউটার ও অন্যান্য প্রযুক্তি :  
এর ভিত্তিতে নতুন প্রযুক্তি উদ্ভাবন"
5. Details in respect of Research work carried out during the above mentioned period:  
Among the research work carried out during the said period, I  
have done touched of the work on the first chapter in the six months  
after the previous works.

Yours Sincerely,

Kishun Saren  
Signature of the Research Scholar

### Comments of the Supervisor (s) and Dean of the Faculty

1. General intelligence & keenness to learn:  
Good ☐ Fair ☒ Poor ☐
2. Initiative, Drive and Resourcefulness:  
Good ☐ Fair ☐ Poor ☒
3. Quality of Research Work:  
Good ☐ Fair ☒ Poor ☐
4. Willingness to shoulder additional responsibility and put in extra efforts:  
Good ☐ Fair ☐ Poor ☒
5. Punctuality in attendance:  
Good ☐ Fair ☒ Poor ☐
6. Amenability to discipline:  
Good ☐ Fair ☒ Poor ☐
7. Relations with colleagues and teachers (willingness to co-operate and collaborate):  
Good ☐ Fair ☒ Poor ☐
8. Overall Grading:  
Good ☐ Fair ☒ Poor ☐

Any other comment of the Supervisor(s):

[Signature]  
03/01/2024

[Signature]  
Signature of the Supervisor (s)

[Signature]

[Signature]  
Secretary  
Ph.D. Committee, Dept. of Santali  
Vidyasagar University, Midnapore, W.B.

Counter signed by the Dean of the concerned Faculty

### Decision of Board of Research Studies (BRS) or Chairman of BRS

Stipend to be continued: Yes ☐ No ☐

Comments, if any

Signature





**VIDYASAGAR UNIVERSITY**  
MIDNAPORE-721 102, WEST BENGAL  
Ph: 03222- 276554/276555/276557/276558

Memo No.: VU/SNT/Ph.D./RAC/ 08 /2024

Date- 03.04.2024

**Meeting**




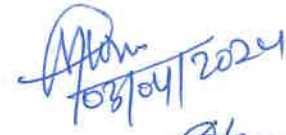


Ph.D. Committee in Santali Three (3) Member 3<sup>rd</sup> RAC Committee Meeting will be held on- **03.04.2024 at 11.00. A.M.** to onwards for Three (3) F.T.R.S.- **i) Nilima Patra, ii) Shilaboti Hansda, & iii) Kishun Saren and One (1) P.T.R.S.- i) Shyam Charan Tudu**, in the Departmental Head room in offline mode.

**Agenda:**

1. Ph.D. in Santali Three (3) Member RAC Committee Meeting.
2. Miss.

**Member Present in the Meeting:**

<u>Sl. No.</u>	<u>Member Signature/Attended</u>
----------------	----------------------------------

- |  |   |
|--|---|
| 1. Prof. Debasish Mondal- Chairmen-  |   |
| 2. Dr. Ratan Hembram-Ex-officio Secretary-   |     |
| 3. Prof. Indranil Acharya –Internal Member-<br>(Dept. of English, V.U.)              |   |
| 4. Dr. Pramode Kr. Prasad- Internal Member-<br>(Dept. of Hindi, V.U.)                |     |
| 5. Dr. Fatik Murmu- External Member-<br>(Dept. of Santali, B.U., Bankura, W.B.)      |    |
| 6. Dr. Palton Murmu- External Member-<br>(Dept. of Santali, S.K.B.U., Purulia, W.B.) |   |
| 7. Dr. Dulee Hembram-Internal Invitee Member-  |  |
| 8. Dr. Khudiram Murmu- Internal Invitee Member-                                      |  |

**Resolutions :**

1. First of all, we Members Ph.D. Committee in Santali, V.U. proposed the name of the Chairman of Dr. Pramode Kumar Prasad, Associate Professor, Dept. of Hindi V.U. was take places.
2. Secondly we go through the last meeting held on 12-09-2023 Agenda, we discuss and unanimously confirm the meeting.
3. We again Scrutiny, Observe and Discuss regarding the thesis of Three (3) Full Time Research Scholars and One (1) Part Time Research Scholar's written thesis and correct the thesis and resolved in the Ph.D. Committee in Santali that three (3) Members RAC – Committee Meeting is held today on 03-04-2024 at 11.00 A.M. to Onwards for Three (3) F.T.R.S. and One (1) P.T.R.S. – as – (i) Nilima Patra – Supervisor – Dr. Khudiram Murmu, (ii) Shilaboti Hansda – Supervisor - Dr. Khudiram Murmu, (iii) Kishun Saren – Supervisor – Dr. Ratan Hembram, & (iv) Shyam Charan Tudu – Supervisor – Dr. Dulee Hembram. We all RAC – Members check up the candidate's thesis and ask for needful correction.
4. Meeting ended with the vote of thanks by the Ph.D. in Santali – Ex-Officio Secretary – Dr. Ratan Hembram, Associate Professor & Head, Dept. of Santali, V.U.

  
03-04-24

Secretary

Ph.D. Committee, Dept. of Santali  
Vidyasagar University Midnapore, W.B.

Report of the meeting of the Research Advisory Committee

1. Name of the Candidate: Palash Biswas
2. Name of the Department: Adivasi Studies
3. Title of the Thesis: *A Study of the Representation of Traditional Culture in Select Works of Five Adivasi Poets of Eastern India.*
4. Registration No. with date and year: 935/ Ph. D (Arts), 10.11.2022
5. Name(s) of the supervisor(s): Dr Jolly Das
6. Date of meeting of R.A.C.: 22.02.2024
7. Progress of Research Work:
  - i) Conducted interviews with Adivasi poets Hemant Dalpati (Orissa) in Bhubaneswar on 28.10.2023 and Marshal Hembram (West Bengal) at Akashvani on 14.12.2023.
  - ii) Translated selected poems from *TeerereLekhichhu Nan Tumaraby* Hemant Dalpati.
  - iii) Read the primary texts along with secondary texts and consult with all the poets physically or over the phone.

**Primary Text:**

- Jacinta Kerketta – *Angor* (Selected Poems), 2016
- Hemant Dalapati – *TeerereLekhichhu Nan Tumara* [*Writing Your Name on Our Arrow*] Selected Poems, 2016
- Esther Syiem – *Many Sides of Many Stories* (Selected Poems), 2017
- Kamal Kumar Tanti – *Postcolonial Poems* (Selected Poems), 2019
- Marshal Hembram – *Fight for Existence* (Selected Poems), 2022.

**Secondary Texts:**

- FanonFrantz - *The Wretched of the Earth*



- Fanon Frantz- *Black Skin White Masks*
- Stuart Hall – *Cultural Studies 1983: A Theoretical History*
- Ngũgĩ wa Thiong'o- *Decolonising the Mind*
- G. N. Devy – *After Amnesia*

#### 8. Comments of the members of R.A.C.:

Both esteemed Advisors:

- Critical about identifying Esther Siem as "Adivasi".
- Another poet from the North-East could be included — e.g. Temsula Ao, who is very important.
- The use of "post-colonial poems" (Kamul Kumar Tanti) should be avoided.

#### 9. Specific suggestions, if any:

Prof. S. P. Singha:

- The term "Adivasi" must be clarified at the outset.
- Adding "Resistance" to the title — the title has to be revised: either, "Resistance Against Cultural Silence: A Study of Select Poems of Adivasi Poets of Eastern and North-East India", or "Resistance Against Cultural Silence: A Study of Select Adivasi Poets of Eastern and North-East India".
- An overarching theoretical parameter should be there.
- Other theories related to indigeneity, resistance and cultural amnesia could be brought in as and when required.
- Studying the linguistic orientation of the select poets. [contacting the NGO, Prodan].

\* [Rest on P/4].

**Signatures of the Members of R.A.C.**

Signature of the Secretary, Ph.D. Committee:

*[Signature]* 22/2/24

Signature of the External Expert:

*[Signature]* 22/02/2024

Signature of the Internal Expert:

*[Signature]*  
22/02/2024

Signature(s) of the Supervisor(s):

*[Signature]* 22/02/2024

**Documents Required for Submission with R.A.C. Report:**

1. Official notification:

P/5

2. Attendance of the candidate:  
(Full Signature with Date)

*[Signature]* Biswas  
22/02/24

### 3. Relevant document (Research paper / patent / Publications, if any)

P/6 - 9.

#### Publications

Biswas, Palash. Review of *Fight for Existence: Collection of Santali Poems*, by Marshal Hembram. *The Book Review*, vol. xlvii, no. 9, September 2023, p. 65. P/6 - 8

#### Paper Presentations

Biswas, Palash. "Emergence of Hybridised Identity of Lodhas in Chakdah: A Study of Survival in Isolation." *Endangered Folk Literature and Culture of the Jeter and other Indian Indigenous Communities: Documentation, Digitization, and Translation in the Global Context*, organised by The Department of English, Vidyasagar University, The Story Telling Academy, Loughborough University, U K, The British Council, Kolkata, 17 January 2024, Vidyasagar University, Midnapore. Microsoft PowerPoint presentation. P/9.

\* Suggestions (contd.):

Both esteemed advisors:  
The Chapter Division could be revised as follows:

Introduction.

Ch-1 : Theoretical Parameters.

Ch-2 : Fear of Loss of Traditional Culture

Ch-3 : Cultural Resistance

Ch-4 : Celebration of Cultural Heritage

Ch-5 : A Study of Adivasi Poetry in English and English Translation.

Conclusion.