



Vidyasagar University

Midnapore, West Bengal

721102



1.3.2: Supporting Documents



Brochure or any other document relating to value added

**Department of Applied Mathematics with Oceanology and Computer
Programming
Vidyasagar University, Midnapore-721102**

Value added course (Skill Development Program)

Course name: Document Preparation using Latex

Course Code: MTMS 001

Eligibility: Bachelor's degree in any Science Faculty

Objectives: To create an understanding of the LaTeX, Preparation of Article, Report, Thesis, Book, and Presentation of the document.

Credit: 2

Duration: 30 hours

The course can be run in any of the semesters.

Course contents:

Sl. No.	Content	Contact Hours
1	Installation of LaTeX Software, MikTex, WinEdt, etc. Advantages of LaTeX.	2
2	Understanding of working procedure of LaTeX Software. Document classes. Basic Syntax. Math equations, with and without numbering. Array, Matrix, enumeration, table.	4
3	Page layout. Article writing- Title, abstract, section, subsections, references. References and citations.	4
4	Table of contents, new environments. Figures. List of figures, tables. Preparation of Index page.	4
5	Packages: Geometry, graphics, Hyperref, amsmath, amssymb, color, tilez listing algorithms.	4
6	Beamer: Preparation of presentation slide. Pause. Slide colors. Title. Block.	4
7	Report writing, Book writing.	2
8	Assignments on (i) Preparation of letter (ii) Preparation of question paper (iii) Preparation of resume (iv) Preparation of articles/research papers (v) Presentation slide using beamer	4
9	Editing of .cls file, .sty file. Use of BibTeX. Generate bibliography for a document.	2

Students' evaluation is based on assignments, quizzes, and documents preparation in lab.
A certificate will be issued with an appropriate grade for successful candidates.

Course coordinate: To be decided by the DC.

References

1. L. Lamport. LATEX: A Document Preparation System, User's Guide and reference manual. Addison-Wesley, New York, second edition, 1994.

My signature
Dr. Madhumangal Pal
Professor & Head
Department of Applied Mathematics with
Oceanology & Computer Programming
VIDYASAGAR UNIVERSITY
Midnapore-721102, W.B., India

LxT:

<https://christopencourseware.com/course/Technical+Scripting+Using++LaTeX>

<https://christopencourseware.com/course/Technical+Scripting+Using++LaTeX>

Course outcomes:

After the successful completion of the course, the students will be able to:

1. Can write any scientific and non-scientific documents such as letter writing and article preparation.
2. The students can write any research article containing figures, tables, equations, theorems, lemmas, etc.
3. Learners be able to report and book preparation.
4. The students can prepare the presentation slides (ppt) using Beamer.


Dr. Madhumangal Pal
Professor & Head
Dept. of Applied Mathematics with
Oceanology & Computer Programming
VIDYASAGAR UNIVERSITY
Midnapore-721102, W.B., India



VIDYASAGAR UNIVERSITY

CENTRE FOR CONTINUING AND ADULT EDUCATION

P.O.: VIDYASAGAR UNIVERSITY, DIST: PASCHIM MEDINIPUR, PIN 721102, WEST BENGAL.

Phone: 03222- 276554/55/57/58; Fax 03222-275329/297 Cell: 8373861707

Ref. No.: VU/CCAЕ/11/2023

Date: 05/01/2023

ADMISSION NOTIFICATION

Applications are invited for the provisional admission to the following Certificate Courses at the Centre for Continuing and Adult Education (CCAЕ), Vidyasagar University.

All the Courses offered by CCAЕ are open to all but specially for working personnel of Government/Bank/NGO/Media Houses, Teachers and students of different levels in different institutions.

Application Forms (Form A) can be downloaded from the university website (www.vidyasagar.ac.in/CentreCell/CCAЕ)

Filled in Application Form along with Payment Document (Application Fees of Rs 200/- and Course Fees in full (non refundable)) should be submitted to the office of the Centre for Continuing and Adult Education, 1st Floor of Pandit Ravi Sankar Bhavan, near Gate No-1, Vidyasagar University, Pin-721 102 on all working days between 11 AM to 2 PM.

OR

SCANNED COPY of filled in application form along with Payment Document (Application Fees of Rs 200/- and Course Fees in full (non refundable)) is to be sent at ccaеoffice@mail.vidyasagar.ac.in.

Last date of submission of Application Form: 31.01.2023

Account for Fees Payment

UCO Bank, Vidyasagar University Branch, IFSC: UCBA0001748

Beneficiary Name: Vidyasagar University, CCAЕ Account Number: 17480110077832

SWIFT CODE: UCBAINBB102

Admissions in courses are made strictly on the number of approved seats and on "FIRST COME FIRST SERVE" basis within the given time frame. All enquiries and correspondence pertaining to academic matters such as Admission confirmation, Study materials etc must be addressed to:

The Director,

Centre for Continuing and Adult Education (CCAЕ)

Vidyasagar University, Paschim Midnapore- 721102

Contact Number: 8373861707

Certificate Courses

Sl No	Course Name	Eligibility	Seats	Course Type	Duration	Course Fees (Rs)
1	Electronics and E-Waste Management	Graduate	30	Certificate	3 Months	300/-
2.	Jhumur	Madhyamik	25	Certificate	3 Months (Saturday & Sunday)	3000/-

Dr Avijit Roychoudhury, Director, CCAЕ, VU

HEAD
Department of Electronics
VIDYASAGAR UNIVERSITY
Midnapore - 721102, W.B.

Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore- 721102

21/09/22

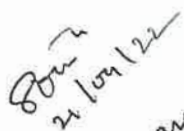
Electronics and E-waste Management

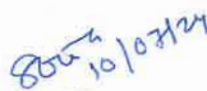
1. Basic Circuit Idea: Lecture: 3 Hours
 - A) Resistance, Inductance, Capacitance, Series and parallel combinations, Kirchhoff's law, Voltage, Current, Linearity.
 - B) Voltage and current sources, Non-ideal sources, Concept of gain, Transconductance, Transimpedance.
 - C) Thevenin's theorem, Norton's theorem.
 - D) Filter.
2. Diodes: Lecture: 3 Hours
 - A) Semiconductor diode characteristics.
 - B) Clipper and clamper circuits.
 - C) Zener Diode, LED, Photodiode, Varactor diode, Tunnel diode.
 - D) Rectifier: Half wave, Full wave (Centre-tapped, Bridge), Zener-regulated power supply.
3. Transistors: Lecture: 3 Hours
 - A) BJT configuration and biasing.
 - B) Concept of differential amplifier using BJT.
 - C) BJT switch and logic circuit.
 - D) Working principle of MOSFET and CMOS.
 - E) MOSFET as logic circuit.
4. Operational amplifier and Oscillator: Lecture: 3 Hours
 - A) Virtual ground concept, Inverting and non-inverting amplifiers, Adder, Differentiator, Integrator.
 - B) Feedback theory, Positive and negative feedback, Concept of stability, Oscillator.
 - C) Waveform generator using Op-amp.
5. Digital Electronics: Lecture: 3 Hours
 - A) Number systems, Binary arithmetic.
 - B) Logic gates: AND, OR, NOT, NOR, NAND, XOR, XNOR; Truth tables.
 - C) Logic function representation.
 - D) Combinational and sequential circuits.
6. Communication system: Lecture: 2 Hours
 - A) Wired and wireless communication systems.
 - B) Electromagnetic waves and Antenna.
 - C) Internet.
 - D) Optical fiber.
7. E-waste: Lecture: 3 Hours


Director
Centre for Continuing
VidyaSagar University
Midnapore-721102

S.C. Saha
21/09/2022

S. Saha
21/09/22


S. Pramanik
21/09/2022


HEAD
Department of Electronics
VIDYASAGAR UNIVERSITY
Midnapore - 721102, W.B.

- A) Definition of e-waste, Composition of e-waste, Indian and global scenario of e-waste, E-waste generation in India, Possible hazardous substances present in e-waste, Impact on environment and human health.
- B) Regulatory regime for e-waste in India, The hazardous waste (Management and Handling) rules 2011, E-waste management rules 2016.

Practical:

10 Hours

1. Familiarization with passive components, function generator and oscilloscope.
2. To design a CE amplifier with a given midband gain.
3. To design a regulated power supply.
4. To construct AND, OR, NOT gates using discrete circuit components.

80th
21/09/22
S. C. Saha
21/09/2022

80th
21/09/22


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Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

80th
21/09/22
HEAD
Department of Electronics
VIDYASAGAR UNIVERSITY
Midnapore - 721102, W.B.



Resolution of the DC meeting dated 24-08-22

1. The class load distribution of the department is as follows

1 st semester		3 rd Semester	
ELC 101	Dr. Sanchita Pramanik	ELC 301	Dr. Rajendra Prosad Ghosh
ELC 102	Dr. Sutanu Dutta	ELC 302	Dr. Sutanu Dutta
ELC 103	Dr. Subhas Chandra Saha	ELC 303	Dr. Subhas Chandra Saha
ELC 104	Mrs. Susmita Bala	ELC 304	Dr. Rajendra Prosad Ghosh
ELC 195	Mrs. Susmita Bala	ELC 395	Mrs. Susmita Bala
ELC 196	Dr. Rajendra Prosad Ghosh	ELC 396	Dr. Sanchita Pramanik

2. Resolved that the class routine for M.Sc. 1st and 3rd semester will be prepared by Dr. Sanchita Pramanik.
3. Resolved that the department will introduce a short term course on "Electronics and E-Waste management". The duration of the course will be 3 months (30 lectures, 20 hours theory and 10 hours practical). Eligibility: Any graduates: Fees: Rs 500/-. The course structure will be prepared by Dr. Subhas Chandra Saha.
4. Resolved that the outreach activity of our department will be extended to the schools or colleges. All the faculty members are requested to take necessary initiative regarding this matter.

S. Pramanik
29/08/2022

S. C. Saha
30/08/2022

S. C. Saha
24-08-22

S. C. Saha
30.08.22

[Signature]
Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

HEAD
Department of Electronics
Vidyasagar University
Midnapore - 721102, W.B.

[Signature]
HEAD
Department of Electronics
Vidyasagar University
Midnapore - 721102, W.B.

Resolution of the DC meeting dated 01-11-22

1. We have received a grant of Rs 200000/ (Two lakh only) for the purchase of new equipments. Resolved that the following instruments are to be purchased from the grant.
 - i. 8086 kit with interface set up : 06 No
 - ii. Cathode Ray Oscilloscope (30 MHz) : 06 No
 - iii. Function Generators (1 MHz) : 06 No
2. Head will send a letter in the proper format to the Director CCAE to start the add on course on "Electronics and E waste management" and the course fee will be Rs 500/- including the processing fee.
3. Initially the damaged instruments are identified and the DC suggests seeking an expert opinion before the disposal of the damaged instruments.
4. The draft syllabus for the 1st semester M.Sc. in Electronics will be submitted to the PG Secretary office for its necessary implementation on urgent basis.

80th
01/11/22

S. Pramanik
03/11/2022

S. C. Saha
03/11/2022

S. K.
03

80th
15/11/22
HEAD

Department of Electron
VIDYASAGAR UNIVERSITY
Midnapore - 721102, W.B.

Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

Vidyasagar University
Centre for Continuing and Adult Education
Student List of Electronics & E-Waste Management

Commencement Date:01-03-2023 , Completion Date:06-06-2023

COURSE CODE: EEWM, Session:2022-2023

Sl No	ROLL NO.	Name
1	VU/CCAEE/EEWM/2022/01	MINKU MAITY
2	VU/CCAEE/EEWM/2022/02	PRAPAT ADITYA
3	VU/CCAEE/EEWM/2022/03	SK SADDAM ALI
4	VU/CCAEE/EEWM/2022/04	SAHIL AHAMED
5	VU/CCAEE/EEWM/2022/05	RAKESH MOLICK
6	VU/CCAEE/EEWM/2022/06	SANTU DAS
7	VU/CCAEE/EEWM/2022/07	SK AKASH
8	VU/CCAEE/EEWM/2022/08	NILANJANA JANA
9	VU/CCAEE/EEWM/2022/09	SUBRATA MAITY
10	VU/CCAEE/EEWM/2022/10	MANAS HANDA
11	VU/CCAEE/EEWM/2022/11	SHALINI GHOSH
12	VU/CCAEE/EEWM/2022/12	TRISHA NAYAK
13	VU/CCAEE/EEWM/2022/13	SOUMYADIP PATRA
14	VU/CCAEE/EEWM/2022/14	PRITAM SAMANTA
15	VU/CCAEE/EEWM/2022/15	MARAMI PATI
16	VU/CCAEE/EEWM/2022/16	SUBRATA PRADHAN
17	VU/CCAEE/EEWM/2022/17	NEHA MAITY
18	VU/CCAEE/EEWM/2022/18	BISWAJIT DAS
19	VU/CCAEE/EEWM/2022/19	ANIMESH MAITY



80/22
10/07/22
HEAD
 Department of Electronics
 VIDYASAGAR UNIVERSITY
 Midnapore - 721102, W.B.


Director
 Centre for Continuing and Adult Education
 Vidyasagar University
 Midnapore-721102

Ref NO: VU/DE/CCAE/116/2022

To
The Director,
CCAЕ, VU

Subject: 3 Months Short Term Course on "Electronics and E-Waste Management"

Dear Sir,

I/We the undersigned am/are submitting herewith the three Months Course proposal(s) for Certificate/Diploma on "Electronics and E-Waste Management" for your consideration. A brief of the course(s) is/are given below in the CCAE format. The details of the course structure(s) and others are submitted with this application. Please consider the course (s) and let me/us know earliest.

Thanking You.

Yours Truly,

1. Course Details

Course Name	Eligibility	Duration & (Days/Week) (Hours/Day)	Intake	Tentative Starting Time	Fees	Course Coordinator(s) with Cell No and E-Mail ID
Electronics and E- Waste Management	Any Graduate	3 months	30	March, 2023	Rs 500/ including processing fees	hod_electronics@mail.vidyasagar.ac.in

80th 07/11/22
HEAD
Department of Electronics
VIDYASAGAR UNIVERSITY
Midnapore - 721102, W.B.

80th 10/07/24
HEAD
Department of Electronics
VIDYASAGAR UNIVERSITY
Midnapore - 721102, W.B.


Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

REGISTER OF ATTENDANCE OF PUPILS

for the month of

20

Serial No.	Roll No.	NAME OF PUPILS	Serial No. & Date of Admission in the Admission Register	ATTENDANCE																														DANCE																														No. of days	Present	Late Present	Absent or Leave	Absent with Out Leave																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Director
Centre for Continuing and Adult Education
Vijaya Vihar, Cuttack
751002

6/10/2020

Widened - 12/11/2020

VIDYASAGAR UNIVERSITY



This is to certify that

has successfully completed 3
Days / Weeks / Months Certificate / Add - On
Course in
Electronics and E-Waste Management
from 01.03.2023... to 06.06.2023... organized by the
Centre for Continuing and Adult Education
(CCAIE), Vidyasagar University.

Director, CCAE
Vidyasagar University



Department of Electronics
VIDYASAGAR UNIVERSITY
Midnapore - 721102, W.B.

Director
for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

8012

Course Coordinator(s)



VIDYASAGAR UNIVERSITY

CENTRE FOR CONTINUING AND ADULT EDUCATION

P.O.: VIDYASAGAR UNIVERSITY, DIST: PASCHIM MEDINIPUR, PIN 721102, WEST BENGAL.

Phone: 03222- 276554/55/57/58; Fax 03222-275329/297 Cell: 8373861707

Ref. No.: VU/CCAIE/ 99/2022

Date: 02/08/2022

ADMISSION NOTIFICATION

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All the Courses offered by CCAIE are open to all but specially for working personnel of Government/Bank/NGO/Media Houses, Teachers and students of different levels in different institutions.

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OR

SCANNED COPY of filled in application form along with Payment Document (Application Fees of Rs 200/- and Course Fees in full (non refundable)) is to be sent at ccaieoffice@mail.vidyasagar.ac.in.

Last date of submission of Application Form has been extended up to 21.08.2022

Account for Fees Payment

UCO Bank, Vidyasagar University Branch, IFSC: UCBA0001748

Beneficiary Name: Vidyasagar University, CCAIE Account Number: 17480110077832
SWIFT CODE: UCBAINBB102

Admissions in courses are made strictly on the number of approved seats and on "FIRST COME FIRST SERVE" basis within the given time frame. All enquiries and correspondence pertaining to academic matters such as Admission confirmation, Study materials etc must be addressed to:

The Director,
Centre for Continuing and Adult Education (CCAIE)
Vidyasagar University, Paschim Midnapore- 721102
Contact Number: 8373861707

PG Evening and Certificate/PG Diploma Courses for the Academic Session 2022

Sl No	Course Name	Eligibility	Seats	Course Type	Duration	Course Fees (Rs) (for Indian)
1.	Basic Computer Programming and Information Science	HS	80	Certificate	6 Months	8500/-
2.	Data Science	Graduate	40	Diploma	1 Year	12000/-
3.	Honeybee and Stingless Beekeeping	Madhyamik	50	Certificate	2 Weeks	1500/-
4.	Environmental Impact Assessment	Graduate	60	Certificate	2 Months	3000/-

Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore- 721102

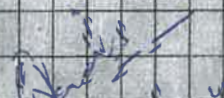
Dr Avijit Roychoudhury, Director, CCAIE, VU

Assistant Professor
Computer Centre
Vidyasagar University
Midnapore

REGISTER OF ATTEND- FOR THE MONTH

Serial No.	Roll No.	NAME OF PUPILS	Sl. No. & dt. of Adm. in the Adm. Reg.	ATTEND -																									
				AS	OK	PS	DB	AS	OK	PS	DB	AS	OK	PS	DB	AS	OK	PS	DB	AS	OK	PS	DB	AS	OK	PS	DB	AS	OK
X	01	Sourik Singha		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	02	Dinesh Char		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	03	Sagar Ghosh		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	04	Saifuddin Khan		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
✓	05	Hemal Hembram		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	06	Arjit Kr. Biswas	✓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	07	Susman Das		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
✓	08	Sunit Kulari		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	09	Shiuli Baidya		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	10	Doyel Ganguli		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
✓	11	Sagnik Pattanayak		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
X	12	Durga Sankar Ghosh		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	13	Koushik Beg		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	14	Sourav Shit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	15	Joyshree Gharoi		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	16	Laboni Maity		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	17	Prerana Bisai		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	18	Shilpayan Ghatak	✓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
✓	19	Animesh Dutta		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
✓	20	Sampriti Dey		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
✓	21	Ganapati Mondal		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	22	Md. Rafiq		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
✓	23	Ananya Adhikari		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	24	Piyasa Gayen		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
✓	25	Pradip Samanta		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	26	Mallika Jana		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	27	Bandita Kar		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
✓	28	Archita Kamila		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	29	Raju Pal	✓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	30	Abhishek Chakraborty	✓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	31	Bikash Bhui	✓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
✓	32	Biplab Pramanik	11/09	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
✓	33	Sripar Jana	21/09	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26


Director
 Centre for Continuing and Adult Education
 Vidyasagar University
 Midnapore-721102


Assistant Professor
 Vidyasagar University
 Midnapore-721102

ANCE OF PUPILS

OF 30 September -

ANCE															No. of days					
AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	Present	Late	Present	Absent	on Leave	Absent without Leave
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REMARKS

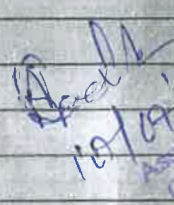
Signature
10/07/24

Assistant Professor
Computer Centre
VidyaSagar University
Mysore

Signature
Director
Centre for Continuing and Adult Education
VidyaSagar University
Mysore-570002

REGISTER OF ATTEND- FOR THE MONTH

Serial No.	Roll No.	NAME OF PUPILS
X	01	Souvik Singha
	02	Dinesh Char
	03	Sagar Ghosh
	04	Saifuddin Khan
✓	05	Hemal Hembram
	06	Arigit Kr. Biswas ✓
	07	Susman Das
✓	08	Sunit Kulari
	09	Shiuli Baidya
	10	Doyel Ganguli
✓	11	Sagnik Pattanayak
X	12	Durga Sankar Ghosh
	13	Koushik Beg
	14	Sourav Shit
	15	Joyshree Ghorai
	16	Laboni Maity
	17	Prerana Bisai
	18	Shilpayan Ghatak ✓
✓	19	Animesh Dutta
✓	20	Sampriti Dey
✓	21	Ganapati Mondal
	22	Md. Rafiq
✓	23	Ananya Adhikari
	24	Piyasa Gayen
✓	25	Pradip Samanta
	26	Mallika Jana
	27	Bandita Kar
✓	28	Archita Kamilya
	29	Raju Pal ✓
	30	Bikash Bhui
	30	Abhishek Chakraborty ✓
	31	Bikash Bhui ✓
✓	32	Biplab Pramanik
✓	33	Sripari Jana


 10/10/21
 Asst. Teacher
 Vidy

No. Present daily

[illegible]

ANCE OF PUPILS

OF

ANCE																No. of days			
AS	DE	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	Present	Late	Present	Absent
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REMARKS

10/12/24
Assistant Professor
Computer Science
Vidya Sagar University
Mysore

Director
Centre for Continuing and Adult Education
Vidya Sagar University
Mysore-570022

REGISTER OF ATTEND- FOR THE MONTH

[illegible][illegible]

REGISTER OF ATTEND- FOR THE MONTH

[illegible][illegible]

2nd Sem

REMARKS

10/11/24
Assistant Professor
Computer Centre
Vidyasagar University
Midnapore

Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

REGISTER OF ATTEND- FOR THE MONTH

[illegible]

FOR THE MONTH		ATTEND	
Roll No.	AS	BP	AS
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OF

REMARKS

Director
Centre for Continuing and Adult Education
Vidyaasagar University
Mudnigere-72102



DIPLOMA IN DATA SCIENCE (DDS) 2022-23

Computer Centre (under CCAE)

Vidyasagar University

COURSE CODE	COURSE NAME	FULL MARKS	LECTURE HOURS	PRACTICAL HOURS	CREDIT
DDS-101	Foundation of Data Science	50	3	0	3
DDS-102	Database Modelling and Designing	50	3	0	3
DDS-103	Statistical Computing using R Laboratory	50	0	3	3
DDS-104	Database Lab	50	0	3	3
DDS-105	Project	50	PCP	0	3

Class Hours: 1 hour each

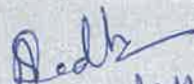
Class Days: Tuesday, Wednesday, Thursday, Friday

Time Table

	10 AM – 11 AM	5.00 PM-6.00PM	6.00 PM-7.00 PM
Tuesday	--	Foundation of Data Science – AS/SKG	R Laboratory - - AS
Wednesday	--	DBMD - DKB	
Thursday	Foundation of Data Science - AS/SKG	DB Lab - DKB	
Friday	R Laboratory- AS	--	--

* Special classes may be arranged on weekends with prior notice


Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102


10/07/24
Assistant Professor
Computer Centre
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Midnapore

Course Handout & Lecture Plan

Semester-I

Course I

Course Code	Course Name	Full Marks	L	P	C
DDS -101	Foundation of Data Science	50	3	0	3

Course Contents:

Module I: Introduction to Data Science: What is Data Science? Big Data and Data Science, Datafication, Current landscape of perspectives, Skill sets needed.

Module II: Descriptive Statistics: Types of Data, Collection of data; Primary & Secondary data, Classification and Graphical representation of Statistical data. General errors and approximations, Measures of central tendency and Dispersion. Measures of Skewness and Kurtosis.

Module III: Probability theory: Probability classical & axiomatic definition of probability, Theorems on total and compound probability, Elementary ideas of Binomial, Poisson and normal distributions.

Module IV: Sets and Fuzzy Sets: Set theory concepts, Set operations, Fuzzy Set Theory, Membership function, Basic Fuzzy Set operations.

Module V: Matrices to represent relations between data: Analysis of Covariance and Correlation. Regression analysis, logistic regression, multinomial regression.

Module VI: Population, Sample and Hypothesis: Methods of sampling and estimation, Sampling distributions, Confidence interval. Testing of hypothesis- type-I error, type-II errors. Problems on test of significance, t-test, z-score, F-statistics, p-value, Analysis of Variance (ANOVA).

Course II

Course Code	Course Name	Full Marks	L	P	C
DDS-102	Database Modelling and Designing	50	3	0	3

Course Contents:


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Midnapore

Module I: Database Concept: Concept & Overview of DBMS, Data Models, Database Languages, Database Administrator, Database Users, Data Abstraction, Three Schema architecture of DBMS.

Module II: Database design: Various steps of database design, Components of Database, E-R diagram, Generalization, Specialization, Aggregation.

Module III: Relational Model and Relational Database Design: Concept of Relational Model, Keys, Closure set, Functional Dependency, Different anomalies in designing a Database, Normalization using functional dependencies Concept of DCL and DML, SQL.

Course III

Course Code	Course Name	Full Marks	L	T	P	C
DDS-103	Statistical Computing using R Laboratory	50	0	0	3	3

Course Contents:

Module I: Introduction to R: Downloading and installing the program with on-line help. Objects and data, working methodology of R. Use of R as a calculator

Module II: Input Output: Use of variables. Reading data from a file, saving data. Creating and converting objects. Concatenation of vectors. Types of data.

Module III: Graphics with R: Graphical functions of R. Low level plotting commands.

Module IV: Data and Statistics using R: Central tendency, correlation, regression.

Module V: Probability distribution using R: Binomial distribution, Normal distribution, Poisson distribution

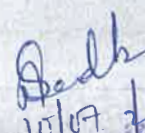
Module VI: Hypothesis tests using R: Chi-square test, t-test, Signed test, Mann-Whitney test, ANOVA.

Course IV

Course Code	Course Name	Full Marks	L	T	P	C
DDS-104	DBMS Laboratory	50	0	0	3	3

Course Contents:

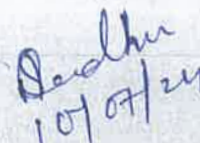

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Module I: SQL - DDL: Creating a database, creating a table, Specifying Relational Data Types, Specifying constraints.

Module II: SQL -DML: INSERT statement, SELECT-FROM-WHERE statements, DELETE, UPDATE and TRUNCATE statements; DROP and ALTER statements etc.


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Semester-II

COURSE CODE	COURSE NAME	FULL MARKS	LECTURE HOURS	PRACTICAL HOURS	CREDIT
DDS-201	Machine Learning for Data Science	50	3	0	3
DDS-202	Data Mining and Data Warehousing	50	3	0	3
DDS-203	Machine Learning Laboratory with Python	50	0	3	3
DDS-204	Data Mining Laboratory	50	0	3	3
DDS-205	Group Project	50	0	0	3

Course V

Course Code	Course Name	Full Marks	L	P	C
DDS-201	Machine Learning for Data Science	50	3	0	3

Course Contents:

Module I: Supervised Learning: Basic methods: Distance-based methods, Nearest-Neighbors, Decision Trees, Naive Bayes. Linear models: Linear Regression, Logistic Regression, Generalized Linear Models, Support Vector Machines, Nonlinearity and Kernel Methods, Beyond Binary Classification: Multi-class/Structured Outputs.

Module II: Artificial Neural Network: Biological neurons and artificial neural network. Learning Methods: Mc-pitt, Hebb's learning, Perceptron, Adaline and Madaline networks, single layer network, Multilayer feed forward network, Back-propagation network.

Module III: Unsupervised Learning: Clustering: K-means/Kernel K-means, Dimensionality Reduction: PCA and kernel PCA Matrix Factorization and Matrix Completion Generative Models (mixture models and latent factor models).

Module IV: Scalable and advanced Machine Learning: Online and Distributed Learning, Semi-supervised Learning, Active Learning, Reinforcement Learning, Introduction to Bayesian Learning and Inference.

Module V: Recent trends in various learning techniques of machine learning and classification method.

Course VI

Course Code	Course Name	Full Marks	L	P	C
DDS-202	Data Mining and Data Warehousing	50	3	0	3

Course Contents:

Module I: Introduction: Introduction to Data Warehousing, Data cube; What is Data Mining

Module II: Pattern mining: Mining frequent patterns, association and correlations; Sequential Pattern Mining concepts, primitives, scalable methods.

Module III: Clustering & Classification: Cluster Analysis – Types of Data in Cluster Analysis, Partitioning methods, Hierarchical Methods; Topological clustering. Classification and prediction.

Module IV: Mining Time series Data: Periodicity Analysis for time related sequence data, Trend analysis, Similarity search in Time-series analysis;

Module V: Recent trends: Distributed Warehousing and Data Mining, Class Imbalance Problem; Graph Mining; Social Network Analysis.

Course VII

Course Code	Course Name	Full Marks	L	T	P	C
DDS-203	Machine Learning Laboratory using Python	50	0	0	3	3

Course Contents:

Module I: Hello Python: Introduction to Python programming language, basic functions and keywords of Python, arithmetic operations using Python.

Module II: Python syntax: Data types in Python, convert between different data types. Variables, reference to variables. Functions in detail, definition, passing parameters, and return information. Concepts of code reuse, code style, and refactoring complex code, effectively using code comments. Equality and logical operators, complex branching scripts using if statements. Loops in programming. while loops to continuously execute

code, for loops to iterate over data, range() function with for loops. Common errors when using for loops and fixing them.

Module III: Strings, Lists and Dictionaries: Manipulate strings using indexing, slicing, and advanced formatting. Advanced data types: lists, tuples, and dictionaries. Storing, referencing, and manipulating data in these structures, combining them to store complex data structures.

Module IV: Using libraries in Python: numpy, scipy, pandas and matplotlib.

Module V: KNN, Decision Trees ID3 algorithm, Naive Bayes, Support Vector Machines using Python. Dimensionality Reduction using Python.

Module VI: Artificial Neural Network, Multilayer feed forward network, Back-propagation network using Python.

Course VIII

Course Code	Course Name	Full Marks	L	T	P	C
DDS-204	Data Mining Laboratory	50	0	0	3	3

Course Contents:

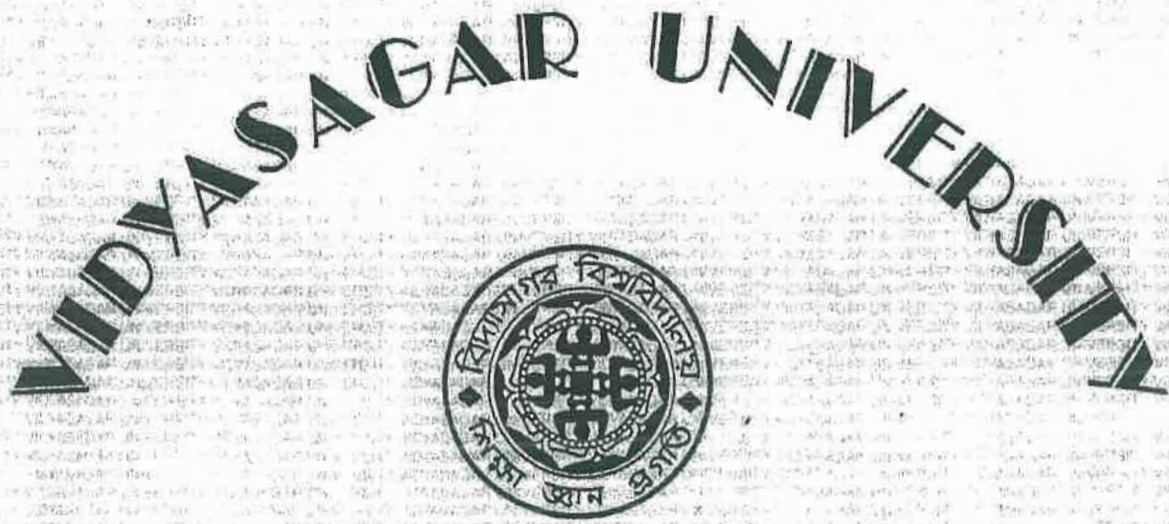
Module I: Application of BIRCH, Agglomerative Clustering, K-means clustering, DBSCAN, OPTICS etc. on real and synthetic datasets.

Module II: Association rule mining, Application of Apriori method.

Module III: Time series analysis, Graph mining, Text data mining: A case study of Sentiment Analysis using Twitter data.


Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102


10/07/21
Assistant Professor
Computer Centre
Vidyasagar University
Midnapore



This is to certify that

has successfully completed 1

Months / Year Diploma / PG Diploma

Course in Data Science

from 06.09.2022 to 15.09.2023..... organized by the

Centre for Continuing and Adult Education
(CCAIE), Vidyasagar University.

Director, CCAE
Vidyasagar University



Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

10/07/24
Assistant Professor
Computer Centre
Vidyasagar University
Midnapore

Course Coordinator(s)



VIDYASAGAR UNIVERSITY

CENTRE FOR CONTINUING AND ADULT EDUCATION

P.O.: VIDYASAGAR UNIVERSITY, DIST: PASCHIM MEDINIPUR, PIN 721102, WEST BENGAL.

Phone: 03222- 276554/55/57/58; Fax 03222-275329/297 Cell: 8373861707

Ref. No.: VU/CCAIE/117/2022

Date: 01/09/2022

ADMISSION NOTIFICATION

Applications are invited for the provisional admission to the following Certificate/Diploma Courses for the Academic Session 2022 at the Centre for Continuing and Adult Education (CCAIE), Vidyasagar University.

All the Courses offered by CCAIE are open to all but specially for working personnel of Government/Bank/NGO/Media Houses, Teachers and students of different levels in different institutions.

Application Forms (Form A) can be downloaded from the university website (www.vidyasagar.ac.in/CentreCell/CCAIE)

Filled in Application Form along with Payment Document (Application Fees of Rs 200/- and Course Fees in full (non refundable)) should be submitted to the office of the Centre for Continuing and Adult Education, 1st Floor of Pandit Ravi Sankar Bhavan, near Gate No-1, Vidyasagar University, Pin-721 102 on all working days between 11 AM to 2 PM.

OR

SCANNED COPY of filled in application form along with Payment Document (Application Fees of Rs 200/- and Course Fees in full (non refundable)) is to be sent at ccaieoffice@mail.vidyasagar.ac.in.

Last date of submission of Application Form has been extended up to 28.09.2022

Account for Fees Payment

UCO Bank, Vidyasagar University Branch, IFSC: UCBA0001748

Beneficiary Name: Vidyasagar University, CCAIE Account Number: 17480110077832

SWIFT CODE: UCBAINBB102

Admissions in courses are made strictly on the number of approved seats and on "FIRST COME FIRST SERVE" basis within the given time frame. All enquiries and correspondence pertaining to academic matters such as Admission confirmation, Study materials etc must be addressed to:

The Director,
Centre for Continuing and Adult Education (CCAIE)
Vidyasagar University, Paschim Midnapore- 721102
Contact Number: 8373861707

PG Evening and Certificate/PG Diploma Courses for the Academic Session 2022

Sl No	Course Name	Eligibility	Seats	Course Type	Duration	Course Fees (Rs) (for Indian)
1.	Basic Computer Programming and Information Science	HS	80	Certificate	6 Months	6000/-
2.	Environmental Impact Assessment	Graduate	60	Certificate	2 Months	i) Students : 3000/- ii) Research Scholars (PhD & Post Doc) : 3500/- iii) Industry: 4000/- iv) Teachers: 5000/-

[Signature]

Dr Avijit Roychoudhury, Director, CCAIE, VU

Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore- 721102

Certificate Course on Environmental Impact Assessment (CC-EIA), Theory and Practical

Week	Class type	Description on Topics	Hours	Resource Person Name
Week 1	Theory 1	Basic concepts of EIA; Conceptual framework of EIA; Role and relationship with planning, policy, politics and management	2	To be announced Later
	Theory 2	Environmental Impact Statement (EIS) and Environmental Management Plan(EMP); Environmental Management and Audit System (EMAS)	2	
Week 2	Practical 1	Assignment	5	
	Theory 3	EIA process: Phases & steps; Screening and Scoping	2	
	Theory 4	Impact Assessment Methodologies; Evaluation of methodologies; EIA techniques and methods: Ad Hoc, Checklist, Overlay, Matrix, use of Computers & Expert system	4	
	Practical 2	Assignment	5	
Week 3	Theory 5	Life-cycle analysis; Cost-benefit analysis	4	
	Theory 6	Guidelines for Environmental Audit; Environmental Planning as a part of EIA and Environmental Audit	2	
	Practical 3	Assignment	5	
Week 4	Theory 7	Environmental Management System Standards; Ecomark and Ecolabelling schemes	2	
	Theory 8	EIA Guidelines: 1994 & 2006; Notification of GoI; Revised notification, Sept. 2006	2	
	Practical 4	Assignment	5	
	Theory 9	Risk Assessment - Hazard identification, Hazard accounting, Scenarios of exposure, Risk characterization and Risk management	2	
Week 5	Theory 10	Application of RS and GIS for EIA	2	
	Practical 5	Assignment	5	
	Theory 11	Prediction and assessment of impacts on the Air, Water, Soil, ..	2	
Week 6	Theory 12	Prediction and assessment of impacts on Noise environment; Socio-economic Impact Analysis/ Social Impact Analysis; Process of reviewing EIA of developmental projects	2	
	Practical 6	Assignment	5	
Week 7	Theory 13	Case studies: River valley projects: Thermal power plants: Mining projects: Oil refineries & petrochemicals	2	
Week 8		Course assessment and result		

Total Theory class 32 Hours = 2 credit points

Total Assignment 30 Hours = 1 credit points

[Signature]

15/07/22

Vidyasagar University

Centre for Continuing and Adult Education

Student List of ENVIRONMENTAL IMPACT ASSESSMENT,2022-2023

CODE:EIA-1/22 DURATION:1 MONTH, Start-19-11-2022 to 18-12-2022

Sl No	ROLL NO.	Name
1	VU/CCA/EIA/2022/01	OINDRILA GHOSH
2	VU/CCA/EIA/2022/02	SANGITA DEBNATH
3	VU/CCA/EIA/2022/03	ANUBHAV CHOWDHURY
4	VU/CCA/EIA/2022/04	ABHIJIT SARANGI
5	VU/CCA/EIA/2022/05	TITHI MONDAL
6	VU/CCA/EIA/2022/06	PUSHPITA CHAKRABORTY
7	VU/CCA/EIA/2022/07	SANGITA ADAK
8	VU/CCA/EIA/2022/08	RAKHI SAHA
9	VU/CCA/EIA/2022/09	NABYENDU MAHALDAR
10	VU/CCA/EIA/2022/10	RAJU PAL
11	VU/CCA/EIA/2022/11	SHANAZ BEGUM
12	VU/CCA/EIA/2022/12	APARUPA NATH
13	VU/CCA/EIA/2022/13	HARSHITA DEY
14	VU/CCA/EIA/2022/14	INDRAJIT SARKAR
15	VU/CCA/EIA/2022/15	KRITI BODRA
16	VU/CCA/EIA/2022/16	HENA LASKAR
17	VU/CCA/EIA/2022/17	JOYATI DAS
18	VU/CCA/EIA/2022/18	MARAMI PATI
19	VU/CCA/EIA/2022/19	ANKANA MANDAL
20	VU/CCA/EIA/2022/20	SUCHETA DEY
21	VU/CCA/EIA/2022/21	OSPITA PATRA
22	VU/CCA/EIA/2022/22	KOYEL MUKHERJEE
23	VU/CCA/EIA/2022/23	PRIYANKA DAS
24	VU/CCA/EIA/2022/24	SWARNALATIKA NATH
25	VU/CCA/EIA/2022/25	RESHMI SAHA
26	VU/CCA/EIA/2022/26	SUDESHNA SARKAR
27	VU/CCA/EIA/2022/27	SUSMITA SARKAR DAS
28	VU/CCA/EIA/2022/28	SAYANI SARKAR
29	VU/CCA/EIA/2022/29	SREEMA PANJA
30	VU/CCA/EIA/2022/30	SHONIT KUMAR MONDAL
31	VU/CCA/EIA/2022/31	OYINDRILA GHOSH
32	VU/CCA/EIA/2022/32	ABHISEK MALLICK



33	VU/CCAIE/EIA/2022/33	TISHYAPALI PAUL
34	VU/CCAIE/EIA/2022/34	MOUMITA MAITY
35	VU/CCAIE/EIA/2022/35	DILIP KUMAR SAHOO
36	VU/CCAIE/EIA/2022/36	ANUSREE MONDAL
37	VU/CCAIE/EIA/2022/37	SUJIT MURMU
38	VU/CCAIE/EIA/2022/38	PRATHAMA PAKIRA
39	VU/CCAIE/EIA/2022/39	ANIRBAN BASU
40	VU/CCAIE/EIA/2022/40	PRAPAT ADITYA
41	VU/CCAIE/EIA/2022/41	SAYANTANI GHOSH
42	VU/CCAIE/EIA/2022/42	SUKHENDU BISWAS
43	VU/CCAIE/EIA/2022/43	SOURAV SAHOO
44	VU/CCAIE/EIA/2022/44	ROBIN DEY
45	VU/CCAIE/EIA/2022/45	Ms. TRISHITA MUKHERJEE
46	VU/CCAIE/EIA/2022/46	JYOTIKA MURMU
47	VU/CCAIE/EIA/2022/47	SOUVICK MONDAL
48	VU/CCAIE/EIA/2022/48	PURBALI MUKHOPADHYAY
49	VU/CCAIE/EIA/2022/49	SAJANI SANNIGRAHI




Sample copy of Certificate

Sl. No.: VU/CCA/EIA/2022/01

Office No.:

Vidyasagar University



This is to certify that

has successfully completed **5** Day/Weeks/Month/Year

Certificate/Diploma/PG Diploma Course in

Environmental Impact Assessment

held between **19.11.2022** and **18.12.2022** organized by **Centre for**

Environmental Research Education and Development (CERED)

in collaboration with the Centre for Continuing and Adult

Education (CCA), Vidyasagar University.

Director, CCAE
Vidyasagar University

Course Coordinator(s)





VIDYASAGAR UNIVERSITY

CENTRE FOR CONTINUING AND ADULT EDUCATION

P.O.: VIDYASAGAR UNIVERSITY, DIST: PASCHIM MEDINIPUR, PIN 721102, WEST BENGAL.

Phone: 03222- 276554/55/57/58; Fax 03222-275329/297 Cell: 8373861707

Ref. No.:VU/CCAЕ/ 99/2022

Date: 02/08/2022

ADMISSION NOTIFICATION

Applications are invited for the provisional admission to the following Certificate/Diploma Courses for the Academic Session 2022 at the Centre for Continuing and Adult Education (CCAЕ), Vidyasagar University.

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OR

SCANNED COPY of filled in application form along with Payment Document (Application Fees of Rs 200/- and Course Fees in full (non refundable)) is to be sent at ccaoffice@mail.vidyasagar.ac.in.

Last date of submission of Application Form has been extended up to 21.08.2022

Account for Fees Payment

UCO Bank, Vidyasagar University Branch, IFSC: UCBA0001748

Beneficiary Name: Vidyasagar University, CCAЕ Account Number: 17480110077832

SWIFT CODE: UCBAINBB102

Admissions in courses are made strictly on the number of approved seats and on "FIRST COME FIRST SERVE" basis within the given time frame. All enquiries and correspondence pertaining to academic matters such as Admission confirmation, Study materials etc must be addressed to:

The Director,

Centre for Continuing and Adult Education (CCAЕ)

Vidyasagar University, Paschim Midnapore- 721102

Contact Number: 8373861707

PG Evening and Certificate/PG Diploma Courses for the Academic Session 2022

Sl No	Course Name	Eligibility	Seats	Course Type	Duration	Course Fees (Rs) (for Indian)
1.	Basic Computer Programming and Information Science	HS	80	Certificate	6 Months	8500/-
2.	Data Science	Graduate	40	Diploma	1 Year	12000/-
3.	Honeybee and Stingless Beekeeping	Madhyamik	50	Certificate	2 Weeks	1500/-
4.	Environmental Impact Assessment	Graduate	60	Certificate	2 Months	3000/-

Head
Department of Computer Science
Vidyasagar University
Midnapore - 721102, W.B.

Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore- 721102

Dr Avijit Roychoudhury, Director, CCAЕ VU
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

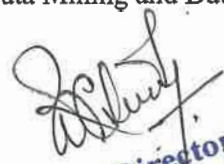
Syllabus

of

6 (Six) Months Certificate Course on "Basic Computer Programming and Information Science"

1. **Computer Fundamentals:** What is computer? Block Diagram, Logic gate, Software and Hardware, Memory. Operation System, Multi user OS, Real Time OS.
2. **Introduction of Computers:** Bus structure, Basic I/O, Subroutines, Interrupt, DMA, RAM, ROM, pipeline, system calls.
3. **C Programming:** Variables and Data types, IO Operations, Operators and Expressions, Control Flow statements, Functions, Array, Pointers, String Handling, Structures and Unions, Files Handling, Pre-Processor Directives, Command Line Arguments.
4. **Object Oriented Programming:** Data Types, If / Else If / Else, Loops, Function, Switch case, Pointer, Structure, Array, String, Function Overloading, Function templates, SCOPE of variable, Type aliases (typedef / using), Unions, Enumerated types (enum), Class, Constructors, Overloading Constructors, Member initialization in constructors, Pointers to classes, Overloading Operators, Keyword 'this', Static Members, Const Member Functions, Class Templates, Template Specialization, Namespace, Friendship (Friend Functions & Friend Classes), Inheritance, Polymorphism, Virtual Members, Abstract base class.
5. **Unix:** Following commands and its different options: ls, ps, pwd, mv, cp, touch, cat, time, cal, bc, sort, diff, wc, comm, ln, du, kill, sleep, chmod, chown, chgrp, top, nice, renice, cut, paste, grep, file, whereis, which, echo, env, PATH, CLASSPATH, find, vi editor, shell, wildcard, shell script.
6. **Data Structure:** Searching, Sorting, Stack, Queue, Linked List, Tree, Graph.
7. **Operating System:** Process, Thread, CPU Scheduling, Deadlock, Synchronization, Memory Management, Disk Management, File Management.
8. **Computer Network:** Concepts of networking, Application areas, Classification, Reference models, Transmission environment & technologies, Routing algorithms, IP, UDP & TCP protocols, IPv4 and IPv6, Reliable data transferring methods, Application protocols, Network Security, Management systems, Perspectives of communication networks.
9. **Database Management System:** Introductions to Databases, ER diagram, Relational Algebra, Relational Calculus, SQL, Normalization, Transactions, Indexing, Query optimization.
10. **Software Engineering:** Introduction to Software Engineering, A Generic view of process, Process models, Software Requirements, Requirements engineering process, System models, Design Engineering, Testing Strategies, Product metrics, Metrics for Process & Products, Risk management, Quality Management.
11. **Machine Learning:** Classification, Decision Tree Learning, Artificial Neural Networks, Support Vector Machines, Bayesian Learning, Clustering, Hidden Markov Models.
12. **Information Science:** Introduction Big-data, Data Mining and Data Science.


Head
Department of Computer Science
Vidyasagar University
Midnapore - 721102, W.B.


Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

Vidyasagar University
Centre for Continuing and Adult Education

Student List of BASIS COMPUTER PROGRAMMING AND INFORMATION SCIENCE,2022-2023

CODE:BCPAISC-1/22 DURATION:6 MONTHS

Sl No	ROLL NO.	Name
1	VU/CCAIE/BCPAISC/2022/01	DEBESHEE CHAKRABARTI
2	VU/CCAIE/BCPAISC/2022/02	SUBHAJIT DAS
3	VU/CCAIE/BCPAISC/2022/03	MOHUA BANERJEE
4	VU/CCAIE/BCPAISC/2022/04	SMRITIREKHA BAKLY
5	VU/CCAIE/BCPAISC/2022/05	SOUMYADEEPA MALAKAR
6	VU/CCAIE/BCPAISC/2022/06	SAMRIDDHA CHOWDHURY
7	VU/CCAIE/BCPAISC/2022/07	RAENAZ RAY


Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102




Head
Department of Computer Science
Vidyasagar University
Midnapore - 721102, W.B.

Attendance Register of Add-on Course " Basic Computer Programming & Information Service II "

REGISTER OF ATTEN-

for the month of

DANCE OF PUPILS

December 2022 to February 2023

Serial No.	Roll No.	NAME OF PUPILS	Serial No. & Date of Admission in the Admission Register	ATTEN -												DANCE														No. of days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
1.		DEBESHEE CHAKRABARTI	1 2 . 3 4 5 6 7 8 9 10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

[Signature]
11/10/22

Head
Department of Computer Science
Vidyaasagar University
Midnapore - 721102, W.B.

[Signature]
Director
Centre for Continuing and Adult Education
Vidyaasagar University
Midnapore-721102

Attendance

Register of Add-on Course "Basic Computer Programming & Information Science".

REGISTER OF ATTEN-

for the month of

DANCE OF PUPILS

February 2023 to June 2023

Serial No.	Roll No.	NAME OF PUPILS
1.		DEBESHEE CHAKRABARTI
2.		SUBHAJIT DAS
3.		MOHUA BANERJEE
4.		SMRITIREKHA BAKLY
5.		SOURADDEEPA MALAKAR
6.		SAMRIDDHA CHAUDHURY
7.		RAENAZ RAY

Roll No.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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Head
Department of Computer Science
Vidyasagar University
Midnapore - 721102, W.B.

Director
Center Continuing and Adult Education
Vidyasagar University
Midnapore-721102

Sample copy of Certificate -

VJUCAE/BCEP/SC/2022/04

VIDYASAGAR UNIVERSITY



This is to certify that

has successfully completed 6
Days / Weeks / Months Certificate / Add-On

Course in Basic Computer Programming and Information Science

from 05.12.2022 to 10.06.2023 organized by the

Centre for Continuing and Adult Education
(CCAE), Vidyasagar University.

Director, CCAE
Vidyasagar University

Head
Department of Computer Science
Vidyasagar University
Midnapore - 721102, W.B.



Director
Centre for Continuing and Adult Education
Vidyasagar University
Midnapore-721102

Course Coordinator(s)