




Criterion 2 - Teaching-learning and Evaluation

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

**DOCUMENT
S**

No	Supporting Documents
1.	Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process.


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General Degree College for Women



Type of Student Centric Methods:

1. Experiential learning -

- Field Visit
- Project Work
- Students carrying on experiments in laboratories

2. Participative learning

- Tree Plantation Activities
- College Annual Sports
- College e-Magazine Publications
- Project Writing
- Creative writing competition
- Outreach programme imbining environmental awareness & Gender sensitisation
- College Wall Magazine
- Poster Presentation Competition
- Student Seminar and Presentation
- Youth Parliament Activities

3. Problem Solving Methodologies

- Laboratory experiment use as a problem solving tool.
- Sample highlight syllabus, laboratory note book sample, Question paper.

4. Teaching using ICT Tools

- On line classes and use of ILMS and other virtual platforms during pandemic
- e-Learning resources
- Digital Library resources (OPAC, KOHA, INFLIBNET etc.)
- Smart Class Room
- Power Point Presentation in classes
- Student seminar using ICT



1. Experiential learning through Field visit

Description: Field visit by Bengali Department



Description: Field visit by students



1. Experiential learning through Field visit

Description:
Field visit by
Geography
Department.



Description:
Field visit by
Geography
Department.



1. Experiential learning through Filed visit

Description:
Field visit by
Geography
Department.



Description:
Field visit by
Geography
Department.



B. M. J.
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Experiential learning through Field visit

**Description:
Field visit by
Geology
Department.**



**Description:
Field visit by
Geology
Department.**



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Experiential learning through Field visit



Description: Field visit by Students

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Experiential learning through Project Work

Description: Project work at Sundarban by Geography student.




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Experiential learning in Curriculum

Description:
Field work/Project
syllabus

DEPARTMENT: GEOGRAPHY
SEMESTER: FIFTH
B.Sc. Honours

Teacher	Course Title	Units	Contents	Commencement Date	Classes required
Dr. Ina Dhar Roy Dasgupta	CEET	UNIT-I Research Methodology	1. Research In Geography: Meaning, types and significance	14 Sep 2021	02
			2. Literature review and formulation of research design		02
			3. Defining research problem, objectives and hypothesis. Research materials and methods		04
			4. Techniques of writing scientific reports: Preparing notes, references, bibliography, abstract and keywords		02
Dr. Ina Dhar Roy Dasgupta	CEET	UNIT –II Fieldwork	1. Fieldwork in Geographical studies – Role and significance. Selection of study area and objectives. Pre-field preparations. Ethics of fieldwork	14 Sep 2021	04
			2. Field techniques and tools: Observation (participant, non-participant), questionnaires (open, closed, structured, un-structured), Interview with special reference to focused group discussions		04
			3. Field techniques and tools: Landscape survey using transects and quadrants, constructing a sketch, photo and video recording		04
			4. Positioning and collection of samples. Preparation of inventory form field data. Post-field tasks.		04
Dr. Ina Dhar Roy Dasgupta/ha benda Sekhar Kar	CEEP	Research Methodology and Field Work Lab	1. Each student will prepare an individual report based on primary data collected from field survey and secondary data collected from different sources for either a rural area (mouza) or an urban area (municipal	14 Sep 2021 (Pre-Field, Sym-Field, Post-Field)	20 [Excluding days of field work]

1. Study of fossils with various modes of preservation.
2. Study of systematic position, stratigraphic position and age of various invertebrate, vertebrate and plant fossils.
3. Study of structural morphological characters of different groups (Bivalvia, Gastropoda, Clam, Trilobites, Echinodermata, Ammonoidea, Goniatites, Belemnites, Silesites).
4. Identification of feeding habits from vertebrate (horse, elephants, Sika) teeth.
5. Hard part morphology and identification of common Bivalvia, Trilobites, Echinoderms, Gastropods. Identification of Goniatites fossils.

Skill Enhancement Course (SEC)

SEC-1: Field Geology I- Basic Field Training Credits 02

- Unit 1**
Topographic sheet: Methods of naming, Features scale, Map reading.
- Unit 2**
1. Use of topographic sheets in field. Marking location in topographic sheet using physical features and bearing.
2. Use of GPS in field.
3. Distance, height and pace approximation in field.
- Unit 3**
1. Identification of rock types.
2. Identification of sedimentary and tectonic structures in field.
- Unit 4**
1. Clinometer and Brunton compass: Use of the instruments in measuring geological data in field. Techniques of measurement of orientation data in field.
2. Lilliput measurement.
- Unit 5**
1. Recording field data in maps and notebooks.
2. Report writing.

OR

SEC-1: Field Geology II- Geological Mapping and Structural Geology Field Credits 02

- Unit 1**
Preparation of a geological map of a small area with basement or gently folded beds.
- Unit 2**
Stereographic plots of orientation data and their interpretation.

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Description:
Field work/Project
syllabus

(Signature)
Principal



1. Experiential learning in Curriculum

Description: Field work/Project syllabus.

Field Work/Project : Syllabus - ENV5

Vidyasagar University
Ablity Enhancement Course (AEC) - Environmental Studies
Credits: 4
Unit 1: Introduction to environmental studies
Unit 2: Environmental Studies
Unit 3: Environmental Studies
Unit 4: Environmental Studies
Unit 5: Environmental Studies

Unit 2: Environmental Policies & Practices
Unit 3: Human Communities and the Environment
Unit 4: Field work
Suggested Readings:
1. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
2. Dargatzis, M., & Galor, R. 1993. The Agrarian Ideal: An Ecological History of India. Univ. of California Press.
3. Jackson, B. and Low, N. (eds.) 1989. Global Ethers and Environment. London: Macmillan.

Field Reports
Geography 2022-23
Department of Geography
Shahid Matangini Hazra Government General Degree College for Women
Ablity Enhancement Course (AEC) under Vidyasagar University
CHARTERED FIELD REPORT
2022-23
Introduction: Geography is a spatial science. It aims to integrate the complex relationship between man and his environment in a specific spatial setting of a region or a place. Field work provides the opportunity to the students to acquire geographical knowledge and skills practically in the 'real world' setting. The field is a major source of primary geographical information and data including landforms, climate, vegetation, population distribution and socio-economic activities. It helps in understanding the unique characteristics, challenges and opportunities of an area, which is essential for effective developmental planning.

Description:
Sample field report.
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Experiential learning Project work

Description:
Sample field certificate list

Field Completion Certificate with List of Students
Geography 2022-23

Field Work	Number Of Students Participated
Field Work 2022-23	36

Sl. No.	NAME	ROLL NO.	REGISTRATION NO. (2022-23)
1	ABHIRA DAS	112024 200011	140001
2	ADARSH CHAKRABORTY	112024 200012	140002
3	SHRUTI SINGHAR	112024 200013	140003
4	PARVATI SAHA	112024 200014	140004
5	MAHARAJA DEVI	112024 200015	140005
6	ANANVI DEB	112024 200016	140006
7	POYINTI SAKHAI	112024 200017	140007
8	SHRUTI PRASANN	112024 200018	140008
9	SHANU CHAKRA	112024 200019	140009
10	SOHINI CHAKRA	112024 200020	140010
11	SAHARAJA	112024 200021	140011
12	SAHARAJA SAHAY	112024 200022	140012
13	SAHARAJA SAHAY	112024 200023	140013
14	SAHARAJA SAHAY	112024 200024	140014
15	SAHARAJA SAHAY	112024 200025	140015
16	SAHARAJA SAHAY	112024 200026	140016
17	SAHARAJA SAHAY	112024 200027	140017
18	SAHARAJA SAHAY	112024 200028	140018
19	SAHARAJA SAHAY	112024 200029	140019
20	SAHARAJA SAHAY	112024 200030	140020
21	SAHARAJA SAHAY	112024 200031	140021
22	SAHARAJA SAHAY	112024 200032	140022
23	SAHARAJA SAHAY	112024 200033	140023
24	SAHARAJA SAHAY	112024 200034	140024
25	SAHARAJA SAHAY	112024 200035	140025
26	SAHARAJA SAHAY	112024 200036	140026
27	SAHARAJA SAHAY	112024 200037	140027
28	SAHARAJA SAHAY	112024 200038	140028
29	SAHARAJA SAHAY	112024 200039	140029
30	SAHARAJA SAHAY	112024 200040	140030
31	SAHARAJA SAHAY	112024 200041	140031
32	SAHARAJA SAHAY	112024 200042	140032
33	SAHARAJA SAHAY	112024 200043	140033
34	SAHARAJA SAHAY	112024 200044	140034
35	SAHARAJA SAHAY	112024 200045	140035
36	SAHARAJA SAHAY	112024 200046	140036

Description:
Sample field/Project work.

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Experiential learning through laboratory experiment – Chemistry & Physice



Volumetric analysis



Volumetric analysis



Spring mass system experiment



Bar and caters pendulum to calculate g




Experiential learning through laboratory experiment – Geography




Soil pH test (Geography)



Experiential learning through laboratory experiment – Geology



Study of fossils in hand specimen



Study of minerals and rocks in hand specimen



Participative learning through Tree Plantation Activities



Tree Plantation Drive 2023

Tree Plantation Drive 2023



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2. Participative learning through College annual sports



Annual Sports 2018-19



Annual Sports 2018-19

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Participative learning through College annual sports



Annual Sports- Fancy Dress Competition 2018-19



Annual Sports 2019-20



Annual Sports 2019-2020



Annual Sports- Fancy Dress Competition 2019-20



2. Participative learning through College annual sports



Annual Sports 2021-22



Annual Sports 2021-22



Annual Sports 2022-23



Inter-College Games and Sports Championship 2022- 2023



2. Participative learning through College e-Magazine Publications



**Annual College Magazine -Srijani
Srijani Volume 1, 2020
Issue on Covid 19, Women &
Health**



**Annual College Magazine -
Srijani Volume 2, 2021
Issue on NEP 2020**



**Annual College Magazine- Srijani
Volume 3- 2022
Issue on 75th Indian Independence**



**Annual College Magazine-
Srijani Volume 4, 2023, Issue on
Women and Environment**



2. Participative learning through Project writing, Creative Writing and Extension activities



Students' Project Writing 2021-22



Creative Writing Competition
Students' Week 2022-23



Extension Activity- Menstrual Hygiene Awareness - 28.04.23



Extension Activity-Child Marriage Prevetion Awareness - 23.03.23



2. Participative learning- Extension Activity imbibing environmental awareness



Road Traffic and Road Safety Survey -8.2.2019



Extension Activity-Dengue and Chickungunya Awareness – 14.3.2020



Say No To Plastic Campaign - 19.11.2019



Ghatal Flood Relief-29.09.2021



2. Participative learning



Tree Plantation Drive-6.6.23



Extension Activity Road Traffic and Air Pollution Survey- 10.5.23



Swaccha Bharat-6.4.23



Swaccha Bharat -6.4.23



2. Participative learning through College wall magazine



Wall Magazine- Major Tribes of India



Wall Magazine- Indian Religion



Wall Magazine- Caste System



Wall Magazine- Save Earth to save Life (Geography Department)

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2. Participative learning through College wall magazine



Wall Magazine- Volcano (Geology)



Wall Magazine- Various Aspects of Social Life (Geology)



Wall Magazine- World Environment Day (Geography)



Wall Magazine- Primitive Tribes of India (Geography)



2. Participative learning through poster presentation competition



Poster Presentation - Students' Week 2023



Poster Presentation- Azadi ki Amrit Mahotsav 2023



Poster Presentation- The Greenhouse Effect (Geology)



Poster Presentation- The Green Revolution (Geology)



2. Participative learning through poster presentation competition



Poster Presentation- Aeolian Erosion Landforms



Poster Presentation- Indian Religion



Poster Presentation



Poster Presentation- Azadi ki Amrit Mahotsav 2023



2. Participative learning through Poster Presentation and Paper Presentation by Students



Poster Presentation- Bengali Department



Poster Presentation - Students' Week 2023



Students' Paper Presentation- Department of Bengali



Students' Paper Presentation- department of Philosophy



Participative Learning through student seminar, presentation, Departmental e-Magazine



Student Paper Presentation



**Students' Paper Presentation-
department of Philosophy**



Student Paper Presentation



E-Magazine "Shatabhisha"
Department of
Sanskrit



2.Participative Learning youth parliament activities



Youth Parliament 2019



Youth Parliament 2019




Youth Parliament 2022



Youth Parliament 2022




3.Problem Solving through laboratory experiment – Geology & Chemistry




Thin section petrography



Metamorphic rock observation under microscope



Qualitative analysis



Gravimetric analysis



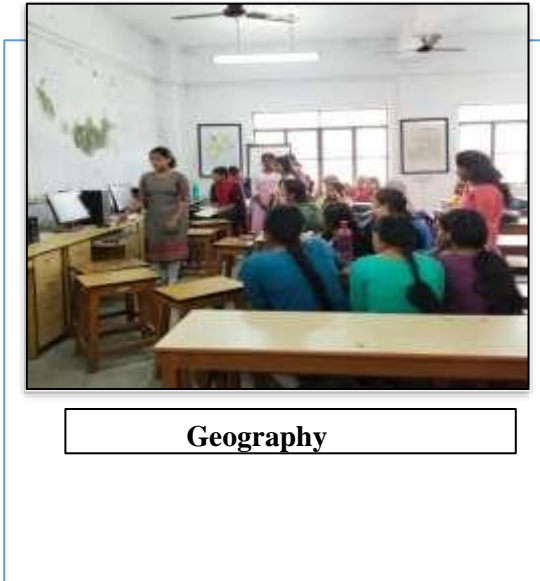
3. Problem solving through Practical work on Cartography and Costal Problems and Management - Geography



Geography



Geography



Geography



4. Problem solving methodologies through laboratory experiment - Physics



**Physics--Problem Solving through
Elasticity Measurement with Spring Mass
System**



**Physics-Problem Solving through
Experiment through ESR**



**Physics -Problem Solving through
Experiment through ESR**



3. Problem solving methodologies through laboratory experiment - Geology



Geology – Problem Solving



Geology - Problem Solving



3. Problem solving methodologies in curriculum

SEC2P: Practical

Credit 01

A: The test of lab skills will be of the following test items

1. Use of an oscilloscope.
2. CRO as a versatile measuring device.
3. Circuit tracing of Laboratory electronic equipment,
4. Use of Digital multimeter/VTVM for measuring voltages
5. Circuit tracing of Laboratory electronic equipment,
6. Winding a coil / transformer.
7. Study the layout of receiver circuit.
8. Trouble shooting a circuit
9. Balancing of bridges

B: Laboratory Exercises

1. To observe the loading effect of a multimeter while measuring voltage across a low resistance and high resistance.
2. To observe the limitations of a multimeter for measuring high frequency voltage and

Sample syllabus of Physics
laboratory work

C7P: Digital Systems and Applications Lab

Credits 02

Digital Systems and Applications

List of Practical

1. To measure (a) Voltage, and (b) Time period of a periodic waveform using CRO.
2. To test a Diode and Transistor using a Multimeter.
3. To design a switch (NOT gate) using a transistor.
4. To verify and design AND, OR, NOT and XOR gates using NAND gates.
5. To design a combinational logic system for a specified Truth Table.
6. To convert a Boolean expression into logic circuit and design it using logic gate ICs.
7. To minimize a given logic circuit.
8. Half Adder, Full Adder and 4-bit binary Adder.
9. Half Subtractor, Full Subtractor, Adder-Subtractor using Full Adder IC.
10. To build Flip-Flop (RS, Clocked RS, D-type and JK) circuits using NAND gates.
11. To build JK Master-slave flip-flop using Flip-Flop ICs
12. To build a 4-bit Counter using D-type/JK Flip-Flop ICs and study timing diagram.
13. To make a 4-bit Shift Register (serial and parallel) using D-type/JK Flip-Flop ICs.
14. To design an astable multivibrator of given specifications using 555 Timer.
15. To design a monostable multivibrator of given specifications using 555 Timer.

Sample syllabus of Physics
laboratory work



3. Problem solving methodologies in curriculum

I N D E X

Sl. No.	Name of the Experiment	Page No.	Date of Experiment	Date of Submission	Remarks
1.	To verify the truth tables of NOR, NAND, AND, OR, NOT, XOR, XNOR gate using Discrete Circuit Components and to verify their truth tables.		07/11/23		17/11/23
2.	To design full-adder and half-adder circuits using basic gates and verify the respective truth table.		09/11/23		18/11/23
3.	To design a Switch NOT gate using a transistor.		20/11/23		23/11/23
4.	To design and set up a 4:1 Multiplexer using NAND gates and OR gate to design and set up a 4:1 Demultiplexer using NAND gates.		08/12/23		18/12/24

Laboratory notebook sample

Date.....

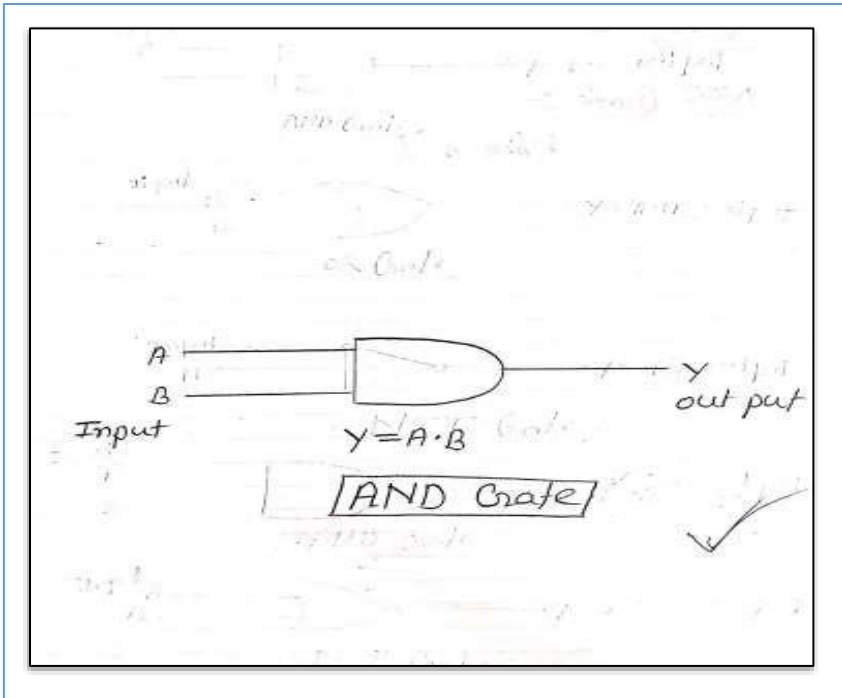
Expt. No. Page No.

Experiment No - 1

To VERIFY THE TRUTH TABLES OF NOR, NAND, AND, OR, NOT, XOR GATES Using Discrete Circuit Components and to verify their truth tables



3. Problem solving methodologies in curriculum



Laboratory notebook sample

Expt. No. Date

Page No.

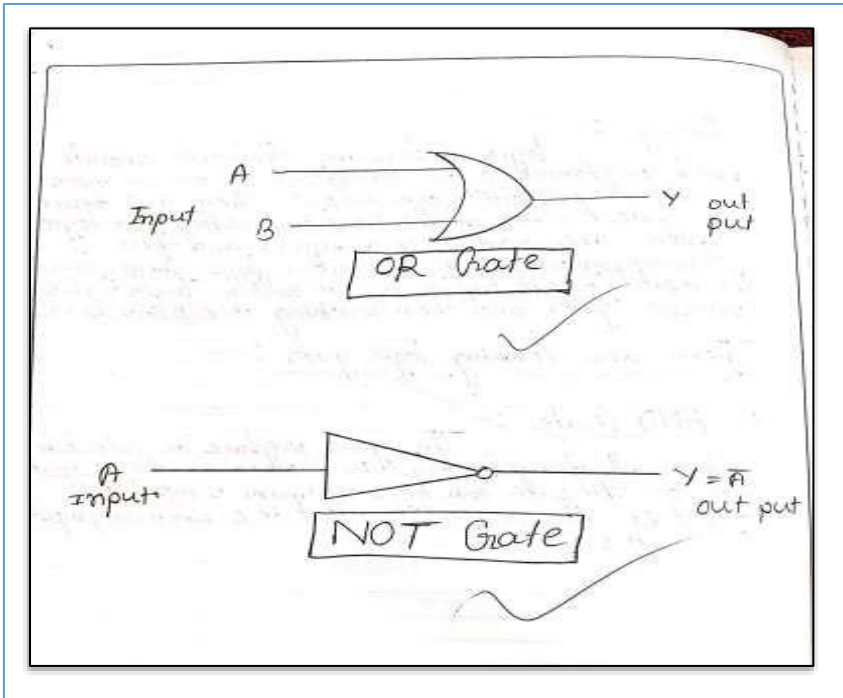
Theory :- Logic gates are electronic circuits which perform logic functions on one or more inputs to produce one output. They are called logic gate when all the input combination of a logic gate are written in a series and their corresponding outputs written logic them. Then the input/output combination is called truth table. Various gates and their working is explain here.

There are following logic gates :-

1. AND Gate :- This gate produce an output as when all its inputs are 1, otherwise the output is 0. This gate can have minimum 2 inputs but output is always 0. Its output is 0 when any input is 0.



3. Problem solving methodologies in curriculum



Laboratory notebook sample

Expt. No. _____ Date _____
Page No. _____

Truth table :- $Y = A \cdot B$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

OR Gate :-

This gate produces an output as 1 when any small its input is one 1, otherwise the output is 0. This gate can have minimum 2 inputs but output is always one its output is 0 when all inputs are 0.

Truth Table :- $Y = A + B$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

NOT Gate :- this gate produces the complement



3. Problem solving methodologies in curriculum

Expt. No. _____ Date _____
Page No. _____

XNOR Gate :- This gate produces an 'as 1' when numbers of and at its input is not odd otherwise output is 0. It has two inputs and one output.

Truth Table :- $Y = A \oplus B$

A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Result :- All the seven logic gate have been successfully verified.

Precautions :-

1. The apparatus should use work properly.
2. The wire should be checked before use.
3. All conditions should be clear and tight and handle it carefully.

Teacher's Signature : _____

Laboratory notebook sample

Expt. No. _____ Date _____
Page No. _____

To determine the thermal conductivity of a bad conductor by Lees and Charlton's method.

Teacher's Signature : *atg* 11.23



3. Problem solving methodologies in curriculum

UG 3rd Semester (General) Practical Examination
PHYSICS
Paper- D5C 1CP

Full Marks: 20 Time: 3 Hours

Answer any one question.

1. Determine Planck's constant using Black Body radiation.

i) Theory and working formula.	2
ii) Experimental set up.	2
iii) Measurement of filament resistance, power, temperature and photocurrent.	6
iv) Plotting of $(1/T)$ vs $\ln(i)$ curve.	3
v) Determination of h .	2
2. Determine Coefficient of thermal conductivity (K) of a bad conductor by Lee's and Charlton's method (Mass, radius and thickness of the disc to be provided)

i) Theory and working formula.	3
ii) Table for recording steady state.	4
iii) Cooling graph.	4
iv) Graph and determination of temperature gradient.	3
v) Determination of K.	2
3. Determine temperature coefficient of resistance by Platinum resistance thermometer.

i) Theory and working formula.	2
ii) Circuit diagram and implementation.	2
iii) Determination of electrical midpoint.	1
iv) Determination of resistance of platinum thermometer. (Ice, steam)	5
v) Determination of temperature coefficient.	1
4. Determine thermo. Emf of a given thermocouple at a given temperature (Resistance of the potentiometer to be supplied)

i) Theory and working formula.	2
ii) Circuit diagram and implementation.	2
iii) Data for thermos. Emf and temperature graph.	4
iv) Plotting of thermos emf vs temperature graph.	2
v) Determination of thermo emf at specified temperature.	1

6th Semester General Practical Examination, 2024
Physics
Paper-D5E-1B
CBCS

Full Marks : 20 Time : 2 Hours

(Marks Distribution: Lab Note Book-02; viva-03; Experiment-15)

1. Design a OR, AND, NOT and XOR gate using NAND/NOR gates.

i) Theory and circuit diagram.	2
ii) Circuit implementation	4
iii) Truth table	8
iv) Discussion	1
2. Study the forward characteristics of p-n junction diode

i) Theory and circuit diagram.	2
ii) Circuit implementation	2
iii) Forward characteristic table	6
iv) Draw graph between forward current and forward voltage	3
v) Discussion	2
3. Study the reverse characteristics of a Zener diode

i) Theory and circuit diagram.	2
ii) Circuit implementation	2
iii) Reverse characteristic table.	6
iv) Plotting of graph between reverse current and reverse voltage.	3
v) Discussion	2
4. Study Half adder and full adder circuit.

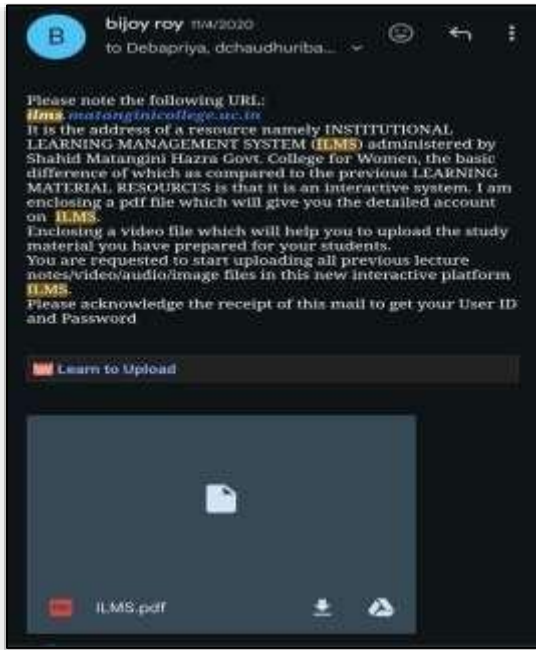
i) Theory and circuit diagram	2
ii) Circuit implementation	3
iii) Data table for the half adder circuit	4
iv) Data table for the full adder circuit	4
v) Discussion	2
5. Design a non-inverting amplifier of given gain using Op-amp

i) Theory and circuit diagram	2
ii) Circuit implementation and circuit components.	3
iii) Data table for the non-inverting amplifier	6
iv) Calculation of voltage gain.	2
v) Discussion	2

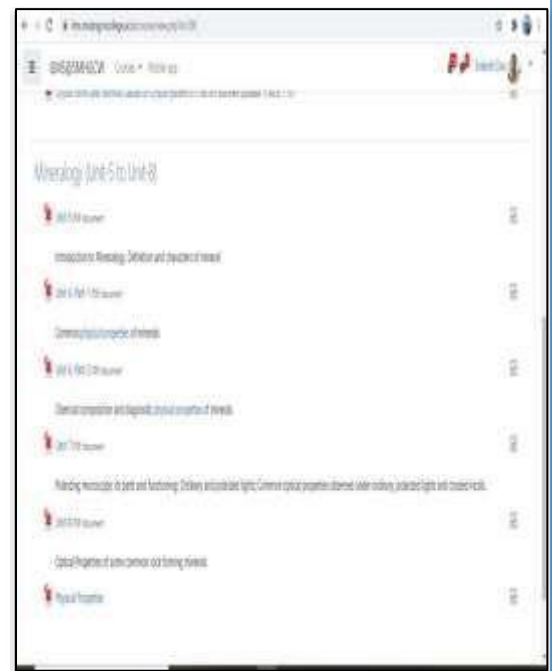
Sample question paper for laboratory examination



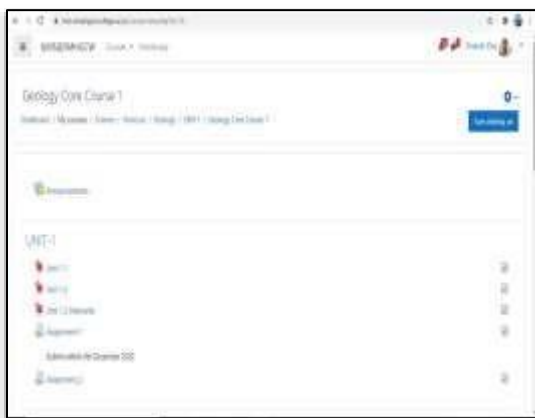
4. Teaching using ICT Tools – Online classes & use of ILMS and other virtual platforms during pandemic



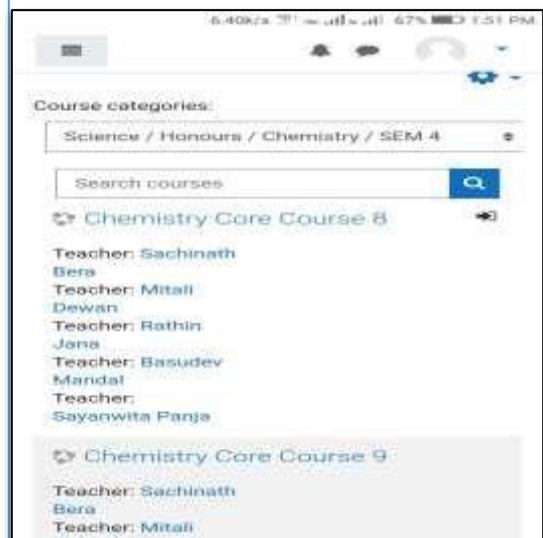
Study material upload instruction



ILMS Teacher interface 1



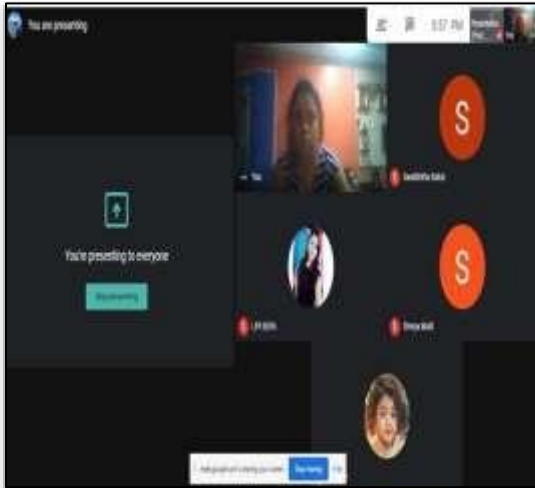
ILMS Teacher interface 2



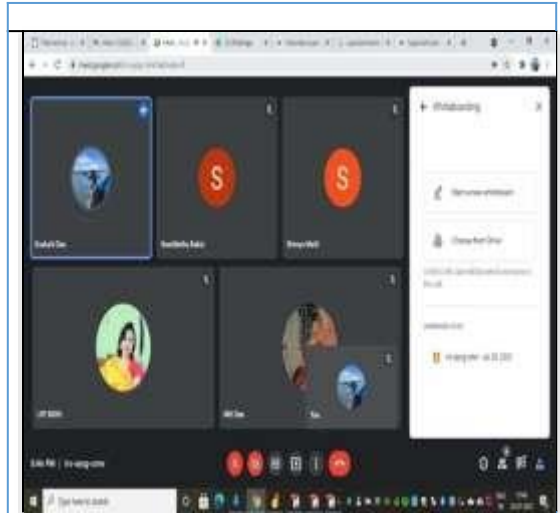
ILMS Student interface



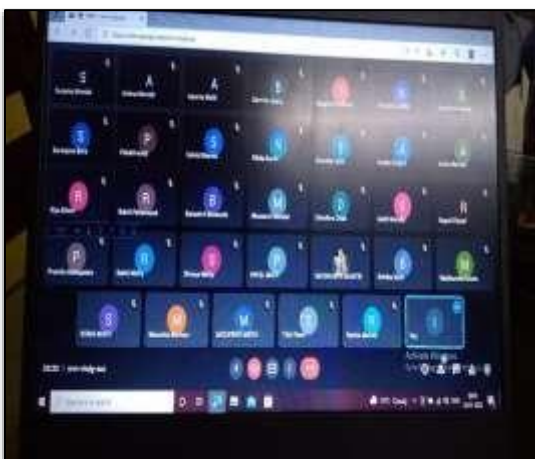
4. Teaching using ICT Tools - Online classes



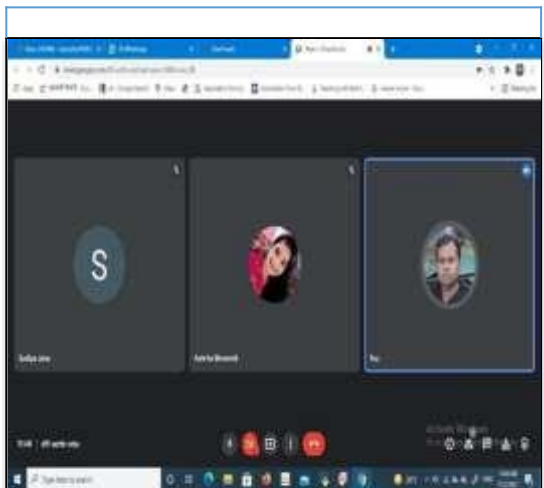
Google meet class 1



Google meet class 2



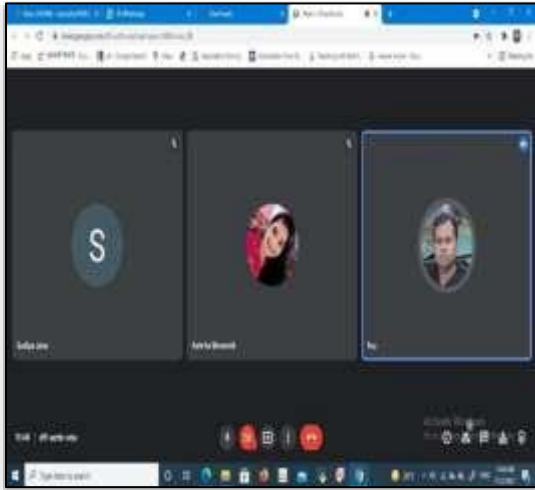
Google meet class 3



Google meet class 4



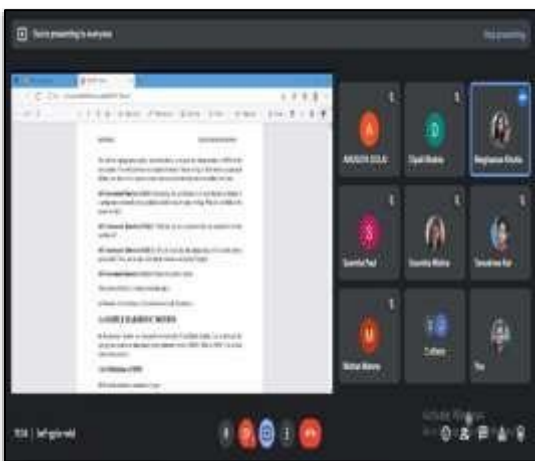
4. Teaching using ICT Tools - Online classes



Google meet class 5



Google meet class 6



Google meet class 7



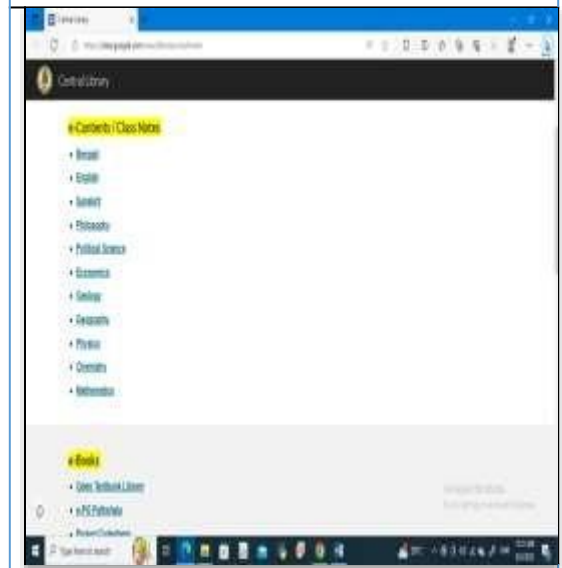


4. Teaching using ICT Tools – e-learning resources

e-Books

- [Open Textbook Library](#)
- [e-PG Pathshala](#)
- [Project Gutenberg](#)
- [UGC MOOC COURSES](#)
- [Rare Book Society of India](#)
- [College Open Textbooks](#)
- [Internet Archive](#)
- [NCERT](#)
- [DOAB](#)

Sample photograph of e-learning resources



Sample photograph of e-learning resources



NLIST e-resources Subscription



4. Teaching using ICT Tools – Digital library resources; Koha OPAC, Library Website

The screenshot shows the Koha OPAC interface. At the top, there is a search bar with a dropdown menu for 'Keyword' and a search button. Below the search bar, there are links for 'Advanced search', 'Authority search', 'Library', and 'College'. The main content area is titled 'Central Library' and includes a welcome message, a description of the library's role, and a list of circulation privileges.

Circulation Privileges	
Students (Hons & Gen)	3 books for 14 days
Faculty	10 Books for 30 days
Office Staff	3 Books for 14 days

Koha OPAC

The screenshot shows the home page of the Shahid Matangini Hazra Government General Degree College For Women. The page features a navigation menu with links to HOME, ABOUT, ADMINISTRATION, ACADEMICS, ADMISSION, ACTIVITIES, STUDENT'S ZONE, IQAC, LIBRARY, FACILITIES, and CONTACT. The main content area includes the college's name, affiliation to Vidyasagar University, and contact information. There are also buttons for 'Online Admission 2024-25', 'RTI', 'Photo Gallery', and '৩০শে (College Magazine)'.

Online Admission 2024-25

The screenshot shows the library website's 'Library E-Resources' section. It includes a sidebar with navigation links like 'About Library', 'Rules and regulation', 'Resources', 'University Question Papers', 'Library OPAC', 'Facilities', 'Activities', 'VIDWAN Database', and 'Library Team'. The main content area is titled 'Library E-Resources' and contains 'N-LIST resources' with a search link and a note to contact the librarian for user ID and password. Below this, there is a table of 'Departmental Resources'.

Sl. No	Department	Link
1	Bengali	https://drive.google.com/drive/u/k/steers/3obFmg3mFFgnc1rgDXJ3BCPe6tk4NM4
2	English	https://drive.google.com/drive/u/k/holders/7YYEh5StDwYnCS4L4D3A2D8Ntr1ARXf
3	Sanskrit	https://sites.google.com/view/smhgdgcw/home?ajlhuar=0

Library website


Principal
Shahid Matangini Hazra Govt. General Degree
College for Women
ChakshriKrishnapur-Kulberia::Kulberia::Purba Medinipur
721649



4. Institutional ICT infrastructure



ICT enabled classroom



ICT enabled lab/Smart classroom



ICT infrastructure in the Institute



4. Teaching using ICT Tools – Smart Classroom, PowerPoint Presentation



ICT enabled classroom



ICT enabled classroom



ICT enabled classroom



4. Teaching using ICT Tools -



Photograph of student seminar using ICT tools



Photograph of student seminar using ICT tools



Photograph of student seminar using ICT tools