Sammilani Mahavidyalaya

E.M. Bypass, Baghajatin, Kolkata - 700094. Ph. No. 033 24626869
Email ID: principal.sammilani@gmail.com

CRITERION - II
TEACHING-LEARNING AND EVALUATION

QlM: 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.

Sammilani Mahavidyalaya
GOVT. AIDED COLLEGE AFFILIATED
TO UNIVERSITY OF CALCUTTA
NACC ACCREDITED B++ IN 2016 (2ND CYCLE)
& ISO 9001 : 2015 CERTIFIED
E. M. Bypass, Baghajatin, Kolkata - 700 094
Phone : (033) 2462-6869
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info@sammilanimahavidyalaya.ac.in
Website : https://www.sammilanimahavidyalaya.ac.in

Ref.: **Date:**

Brief reports and photographs of different departments in relation to experiential learning, participative learning, problem-solving methodologies, and ICT applications.

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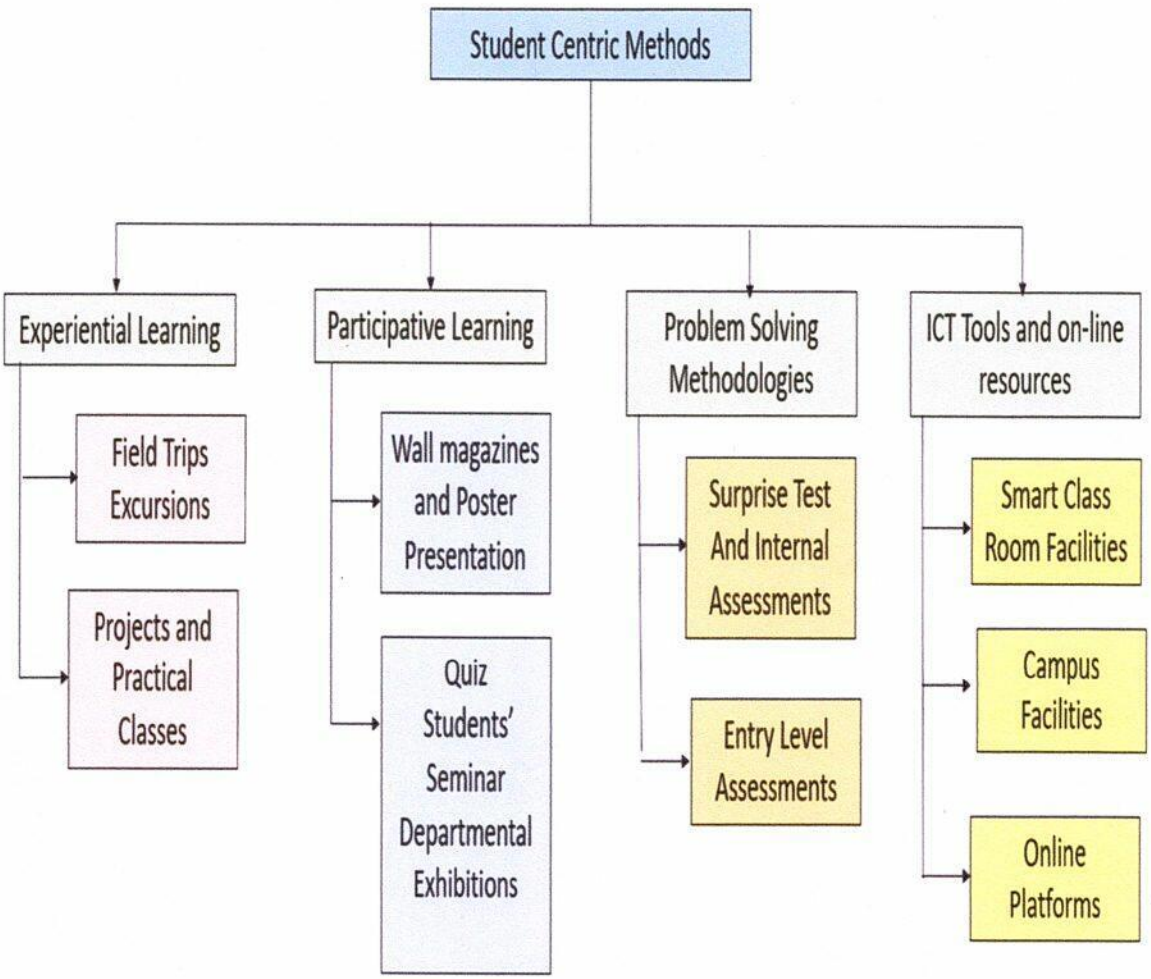

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Supporting Documents: Experiential learning

Experiential learning help students to apply knowledge they acquire through learning to practical applications. The theoretical knowhow they acquire through the different courses are supplemented by practical and hands on trainings. This enhances the intellectual and academic ability of students. This is achieved by the various departments using the following modes:

- Field trips
- Excursions
- Educational Tours
- Students' seminars
- Internships
- Tutorial and practical classes are designed to help students in writing answers, conducting experiments to verify concepts and facts.

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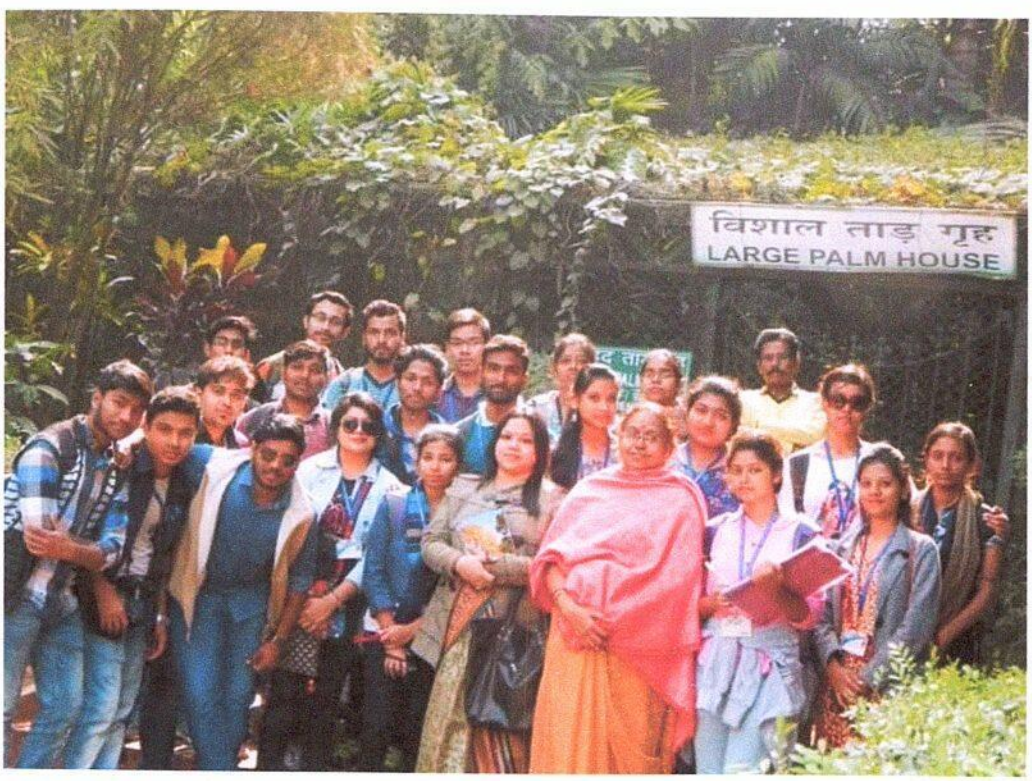
FIELD TRIPS AND EXCURSIONS

DEPARTMENT OF BOTANY

1. **One day excursion to Acharya Jagadish Chandra Bose Indian Botanic Garden, Shibpur, Howrah with 2nd year students (1+1+1) on 18th January, 2018**



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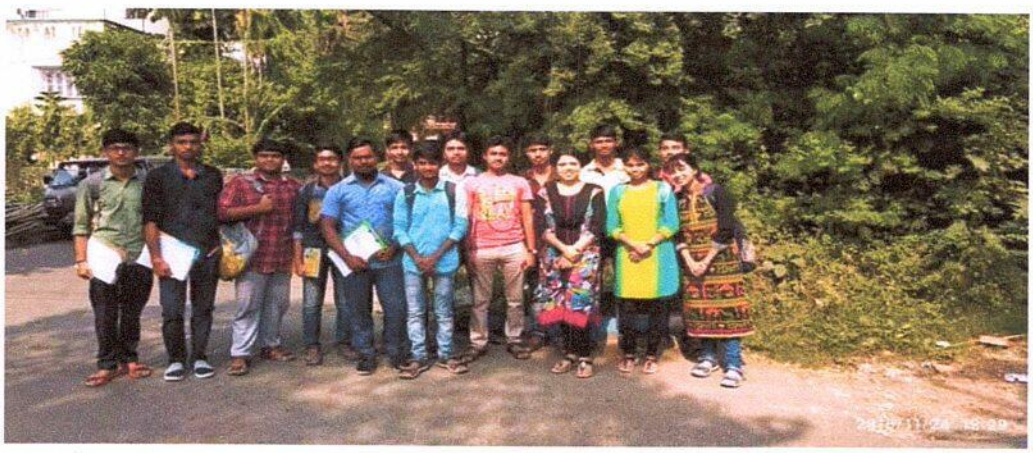
2. **Field work/ local excursion to adjacent areas of highland park with 1st semester students (CBCS) on 24th November, 2018**



3. **One day excursion to Acharya Jagadish Chandra Bose Indian Botanic Garden, Shibpur, Howrah with 2nd year students (1+1+1) on 18th January, 2018**

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DEPARTMENT OF GEOGRAPHY

1. Field visits and Educational excursions:

Session	Field Area	Date	Duration	Title of the Field Report	Supervisors	Number of students participated
2022-23	Manali Town and its surroundings, Himachal Pradesh	14.09.2022 to 24.09.2022	11 days	Physical and Socio economic Analysis of Manali town and surroundings of Himachal Pradesh with special emphasis on tourism industry	Prof. Kamonasish Mistry and Prof. Nayan Roy	36 students of GEOA, Semester V
2021-22	Baghmundi hills, Puruliya, West Bengal	04.04.2022 to 07.04.2022	4 days	Physiacl and cultural Landscape of Baghmundi Hill and its surroundings, Puruliya district, West Bengal	Prof. Kamonasish Mistry	37 students of GEOA, Semester V
2020-21	No Field work due to outbreak of Covid -19 pandemic and the students prepared Field reports using secondary source data as per the guideline issued by the Under Graduate Board of Studies of Geography, University of Calcutta.					
2019-20	Ghatshila town and its surroundings, Purbi Singhbhum, Jharkhand	08.11.19 to 11.11.19	4days	Physical And Socio Economic Analysis Of Ghatshila Town And Surrounding Of East Singbhum District, Jharkhand	Prof. Kamonasish Mistry , Prof. Nayan Roy and Prof. Saheli Ghosh	30 students of GEOA, Semester V
2018-19	Baghmundi hills, Puruliya, West Bengal	26.08.18 to 30.08.18	5 days	Physical And Cultural setup of Gobindapur village and surroundings, Baghmundi, Purulia District, W.B.	Prof. Kamonasish Mistry	30 students of GEOA, Semester V

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Field work in Manali town (September, 2022):

Field work in Ghatshila (November, 2019):

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DEPARTMENT OF HISTORY

Session:- 2019-2020

On the 5th of March 2019 four teachers of the department of history along with 2nd year students participated in an educational excursion cum tour to the **Police Museum** located on 13 APC Road Kolkata: 7,00,009 which also happened to be the house of the great Raja Ram Mohan Roy. The Police Museum spans around 2000 square feet of area and reflects the rich tradition and history of police in our city. The Museum seeks to collect and preserve objects related to the history of Kolkata Police. It exhibits and includes various items seized during the freedom struggle of the country. This house at Manicktala was built by Raja Ram Mohan Roy in 1814 and in 1996 this building was converted into a museum for Kolkata Police. 64 files related to Netaji Subhas Chandra Bose and his family members are displayed by the government of West Bengal for public viewing. the different aspects and dimensions of the freedom struggle are depicted in different galleries. The students enjoyed a lot whilst gaining knowledge and insights from this visit along with us through this interactive process.

Session:- 2020-2021

On the 5th of March 2020 teachers of the Department of History of Sammilani Mahavidyalaya and students of 4th semester conducted an educational excursion of **Victoria Memorial and Saint Paul's Cathedral.**

It was an interactive teaching learning process as Victoria Memorial signifies the reminiscent of British architecture and stands today as a veritable icon of the city of Kolkata. Victoria Memorial Hall was envisaged by Lord Curzon the viceroy of British India as a memorial of Queen Victoria after her death in 1901. A meeting was conducted on the 6th of February 1901 where a resolution was adopted for construction of Victoria Memorial Hall and a fund for building of the memorial was constituted of Rupees 1 crore 5 lakhs. Victoria Memorial Hall constitutes of numerous galleries exhibiting statues, rare paintings and manuscripts. The students learned a lot as if seeing was believing.

The next destination was St. Paul's Cathedral which presently is controlled by the Church of North India. It is noted for its Gothic architecture and the building was completed in 1847. It is the largest church in Kolkata and hence a Cathedral and is also the first Cathedral in Asia. All the students and teachers gained a lot from this educational tour.

Session:- 2021-2022

In order to commemorate the occasion of World Heritage Week the faculty of the Department of History organised a study visit for the students of 3rd Semester History Honours and General as the study visit served the dual purpose of educating the students as well as completing a part of the curriculum. On the 24th of November 2021 approximately twenty five students along with teachers visited an exhibition the topic being ***"Cluster of Museums"*** at Kolkata Centre of Creativity at Emami building, Tagore Park. Then everybody attended a seminar where the speaker was Mrs. Reena Dewan (Director: Kolkata Centre of Creativity). Then Mr. Mahdeb Guria showcased ancient artefacts excavated from his village and thereafter everybody attended seminars covering insects, rare species, Rabindranath and Shantiniketan. Lastly everybody visited a spectacular exhibition of tribal musical instruments.

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Session:- 2022-2023

On the 6th of April 2023 History Honours students of the 4th semester of Sammilani Mahavidyalaya along with teachers of the History Department of visited the **Alipore Jail Museum** as a part of an educational excursion. The Alipore Central Correctional Home is a historic landmark located in Kolkata. This 116 year old building along with the Presidency Jail is on the grade 1list of Heritage sites of Kolkata. Constructed in 1906 and spread over 15.2 acres, this Colonial era institution abuts Tolly's Nulllah and can be identified easily with its characteristic red brick walls. Within the premises one can spot the Alipore Jail Press Building the Central Watch Tower, over a dozen buildings which served as prison cells and wards and the Alipore Jail Hospital Building. Notable freedom fighters who were incarcerated here include J. L. Nehru, S. Chandra Bose, C. R. Das, Dinesh Gupta and Dr. B. C. Roy to name a few. From being a silent witness to the brutalities inflicted on the freedom fighters of the country the Alipore Central Correctional Home is now transformed into a Memorial and Museum to honor the sacrifice of those who fought for the independence of India. The students learnt a lot from this museum how mercilessly the freedom fighters were tortured by the British rulers. The museum also has various paintings, photographs, maps of India on display showing various periods of history, installation and statues of the freedom fighters. Our students along with the teachers arrived at the Museum around 12 o clock noon. They visited the Prison Cells where the great freedom fighters were kept. The institution also houses a Souvenir room, I.N.A theme café, exhibits of Netaji Subhas Chandra Bose on the ground floor and also exhibits related to Rishi Aurobindo, Dinesh Gupta, Women Martyrs of Bengal and the History of the 18th and 19th century starting from the Battle of Plassey in Bengal (1757) up to the National Movement on the first floor of the building. A light and sound show depicting the lives and struggle of various freedom fighters is also shown on the ground adjacent to the hospital building. The students and teachers departed from Alipore Museum around 4:00 p.m. enlightened by the new found knowledge about the gaining of Independence from Colonial rule not only through nonviolence but to a protracted struggle of war and blood shed whereby an entire generation of youngsters sacrificed their lives for the sake of their motherland.

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DEPARTMENT OF PHILOSOPHY

1. Value education tour to Ramakrishna Sarada Mission Vivekananda Vidyabhaban Girls' College under MoU. Students of dept. of Philosophy participated actively in Youth Convention on Human Values and received certificate.
2. Students have undertaken IKS related mini project work under the guidance of Departmental teachers.

Participation in Students' Convention
You tube link: https://youtu.be/571008SSIng?si=r5ZBwKzYLSvo_hTK

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DEPARTMENT OF MICROBIOLOGY

Laboratory visit to Life Science Dept. Presidency University

Aim of the event: The primary aim of the event was to imbibe the undergraduatestudents with the impetus for future research, thereby encouraging them in the process.

Venue of the event: Department of Life Sciences, Presidency University, Kolkata.

Date of the event: 28.09.2022

Institution Name and Department of the visiting students: Sammilani Mahavidyalaya, Department of Microbiology (Semester V).

Name of PI: Dr. Susmita Mondal

Funding Agency: DST – SERB

Total number of visiting students: 15

Students of Sammilani Mahavidyalaya with Dr. Susmita Mondal and other faculty members of Presidency University implementing the DST-SERB program

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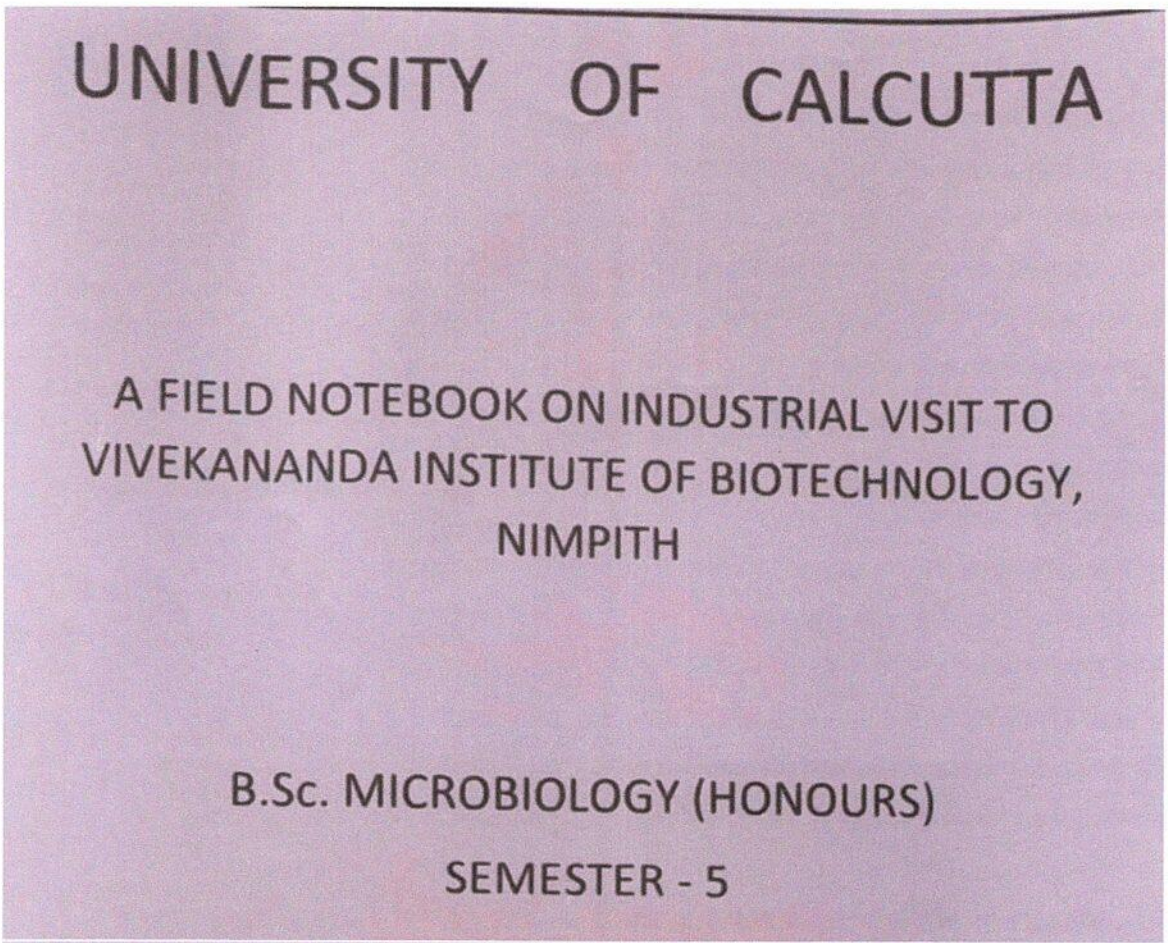
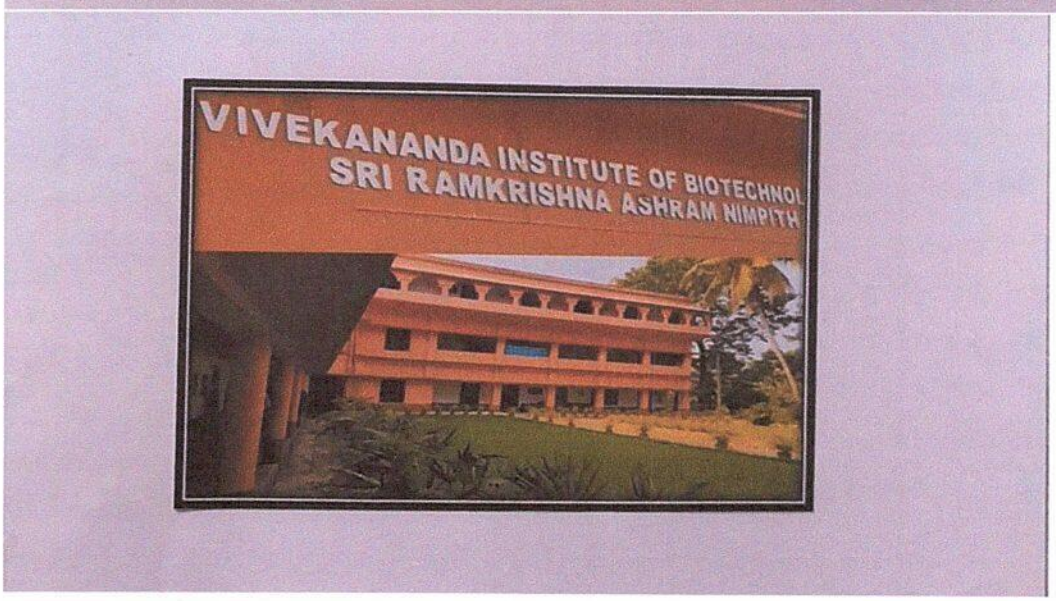
Industrial Visit to Vivekananda Institute of Biotechnology, Nimpith

Semester V students of Microbiology Department were taken to Vivekananda Institute of Biotechnology, Nimpith for industrial visit to their biotechnology laboratories as well as honey and mushroom producing units on 2nd December 2022. The visit was a daylong program and the students submitted a report describing the visit withal records.

Representations of field visit reports





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Excursions 18-19.pdf - Read-only

DEPT. OF ZOOLOGY		
EDUCATIONAL TOUR/FIELD STUDY (2018-19)		
Year	**Place**	**Teachers**
Part II Hons.	Study of Bird diversity at Nature Park	M.D+K.B
Part II Hons.	Study of coastal biodiversity at Chandipur	M.D+A.P
Part II Hons.	Indian Museum	S.M+J.M
Part II Gen.	Indian Museum	D.R
Part III Gen.	Nimpith Poultry Farm	D.R+R.C

Field Visit At Nature Park

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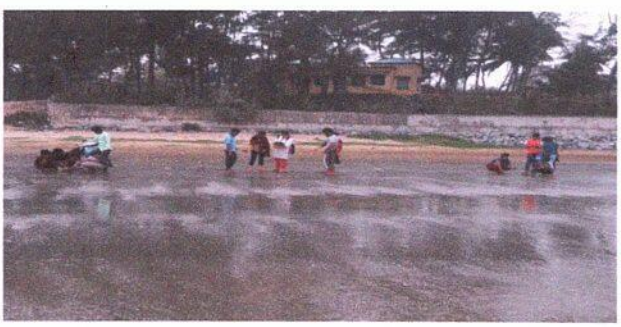
DEPT. OF ZOOLOGY		
EDUCATIONAL TOUR/FIELD STUDY (2019-20)		
Year	Place	Teachers
Part III Hons.	Study of Bird diversity at Nature Park	M.D+K.B
Part III Gen.	Study of species diversity at Sammilani Mahavidyalaya premises	M.D

Study of Bird Diversity At Nature Park



Study of Species Diversity At College Premises

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Representations of field visit reports

DATE AND TIME OF JOURNEY :

We went to Vivekananda Institute of Biotechnology on 2nd December, 2022. We started our journey from our college Sammilani Mahavidyalaya at 9:30 AM and reached there by 11 AM

OUR GROUP :

We were twenty two in number including fifteen students, five teaching staff & two non-teaching staff. We were accompained by there by Dr. (Smt) Sharmila Chakraborty [Departmental Head, Microbiology], Pamela Dutta Roy, Aryama Chakraborty, Madhucosita Saha and our lab assistant Mr. Paritosh Paik and Mr Shyamal Manna.

CONCLUSION :

I could like to conclude that after a visit to Vivekananda Institute of Biotechnology, I analysed that this institute is trying their level best for rural development in the field of agriculture and biotechnology.

Nivia
2/1/23

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PRACTICAL CLASSES AND PROJECTS FOR EXPERIENTIAL LEARNING

DEPARTMENT OF BENGALI

DEPARTMENT OF BENGALI

STUDENTS UNDERTAKING PROJECT WORK ON ENVIRONMENTAL STUDIES (AECC-2)

SESSION 2022-2023

SEMESTER – II (BNGA)

SL no.	Name of the Student	Registration No (CU)	Title of the Project (Supv. RC,MCH)
1	SMRITIKANA SARKAR	513-1211-0024-22	PLASTIC POLLUTION AND ITS REMEDY
2	RUPSA DAS	513-1212-0115-22	PLASTIC POLLUTION AND ITS REMEDY
3	PRITHA MONDAL	513-1212-0023-22	PLASTIC POLLUTION AND ITS REMEDY
4	RAMESH PRAMANIK	513-1114-0067-22	PLASTIC POLLUTION AND ITS REMEDY
5	RAHUL SARDAR	513-1112-0268-22	PLASTIC POLLUTION AND ITS REMEDY
6	NEHA CHOWDHURY	513-1211-0261-22	PLASTIC POLLUTION AND ITS REMEDY
7	SUMANA MALLIK	513-1212-0198-22	PLASTIC POLLUTION AND ITS REMEDY
8	NITISH MANDAL	513-1112-0096-22	PLASTIC POLLUTION AND ITS REMEDY
9	MONIDEEPA MONDAL	513-1211-0153-22	PLASTIC POLLUTION AND ITS REMEDY
10	NILIMA MIRDHA	513-1211-0091-22	PLASTIC POLLUTION AND ITS REMEDY
11	SOMA KARMAKAR	513-1211-0272-22	PLASTIC POLLUTION AND ITS REMEDY
12	SHRABANTI MONDAL	513 - 1212 - 0074 - 22	PLASTIC POLLUTION AND ITS REMEDY
13	NANDITA PADHYAY.	513-1211-0222-22	PLASTIC POLLUTION AND ITS REMEDY
14	AYAN MANDAL	513-1112-0237-22	PLASTIC POLLUTION AND ITS REMEDY
15	RAKHI MONDAL	513-1212-0100-22	PLASTIC POLLUTION AND ITS REMEDY
16	SUNAYNA POLLEY	513-1211-0245-22	PLASTIC POLLUTION AND ITS REMEDY
17	CHUMKI GHOSH	513 -1211-0077-22	PLASTIC POLLUTION AND ITS REMEDY
18	MINU HALDER	513-1211-0185-22	PLASTIC POLLUTION AND ITS REMEDY
19	PAROMITA MONDAL	513-1212-0192-22	PLASTIC POLLUTION AND ITS REMEDY
20	SAMPA MONDAL	513-1212-0130-22	PLASTIC POLLUTION AND ITS REMEDY
21	SAYANI MANDAL	513 -1214 - 0274 -22	PLASTIC POLLUTION AND ITS REMEDY
22	BIPASA DAS	513-1212-0213-22	PLASTIC POLLUTION AND ITS REMEDY
23	TRISHITA MANDAL	513-1214-0201-22	PLASTIC POLLUTION AND ITS REMEDY
24	TAMANNA KHATOON	513-1211-0001-22	PLASTIC POLLUTION AND ITS REMEDY
25	TANIMA MONDAL	513 - 1212 - 0147 - 22	PLASTIC POLLUTION AND ITS REMEDY
26	PRATIMA KAYAL	513-1212-0150-22	PLASTIC POLLUTION AND ITS REMEDY
27	KARABI NASKAR	513-1211-0030-22	PLASTIC POLLUTION AND ITS REMEDY
28	ANANYA MONDAL	513-1212-0121-22	PLASTIC POLLUTION AND ITS REMEDY
29	SANJANA NASKAR	513-1211-0142-22	PLASTIC POLLUTION AND ITS REMEDY
30	PRITY MALI	513-1212-0106-22	PLASTIC POLLUTION AND ITS REMEDY
31	SOHA ALIYA	513-1215-0085-22	PLASTIC POLLUTION AND ITS REMEDY
32	MANASI DAS	513 -1212-0137-22	PLASTIC POLLUTION AND ITS REMEDY
33	PRIYANKA SARKAR	513-1211-0126-22	PLASTIC POLLUTION AND ITS REMEDY
34	SAYANTIKA MONDAL	513-1212-0010-22	PLASTIC POLLUTION AND ITS REMEDY
35	KRISHNA MAITY	513-1211-0233-22	PLASTIC POLLUTION AND ITS REMEDY
36	CHANDANA MONDAL	513-1211-0230-22	PLASTIC POLLUTION AND ITS REMEDY
37	ANANYA PURKAIT	513-1214-0188-22	PLASTIC POLLUTION AND ITS REMEDY
38	SANGITA MONDAL	513-1212-0275-22	PLASTIC POLLUTION AND ITS REMEDY
39	PUJA PURKAIT	513-1212-0007-22	PLASTIC POLLUTION AND ITS REMEDY
40	RUPALI NASKAR	513-1212-0056-22	PLASTIC POLLUTION AND ITS REMEDY
41	SNEHA PRAMANIK	513-1214-0224-22	PLASTIC POLLUTION AND ITS REMEDY
42	SHANKAR SAN KARAN	513-1112-0098-22	PLASTIC POLLUTION AND ITS REMEDY

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DEPARTMENT OF BENGALI

STUDENTS UNDERTAKING PROJECT WORK ON BENGALI LITERATURE

SESSION 2022-2023

SEMESTER – VI (BNGA)

SL no.	Roll No.	Registration No (CU)	Title of the Project (Supv. PM,DS)
1	182513-21-0006	513-1112-0290-18	NATTYOKAR RUPE KALIDASER KRITTIYA
2	192513-21-0015	513-1112-0232-19	NATTYOKAR RUPE KALIDASER KRITTIYA
3	202513-11-0003	513-1211-0010-20	NATTYOKAR RUPE KALIDASER KRITTIYA
4	202513-11-0005	513-1211-0018-20	NATTYOKAR RUPE KALIDASER KRITTIYA
5	202513-11-0012	513-1211-0040-20	NATTYOKAR RUPE KALIDASER KRITTIYA
6	202513-11-0016	513-1211-0048-20	NATTYOKAR RUPE KALIDASER KRITTIYA
7	202513-11-0019	513-1211-0068-20	NATTYOKAR RUPE KALIDASER KRITTIYA
8	202513-11-0021	513-1211-0087-20	NATTYOKAR RUPE KALIDASER KRITTIYA
9	202513-11-0028	513-1211-0111-20	NATTYOKAR RUPE KALIDASER KRITTIYA
10	202513-11-0035	513-1211-0163-20	NATTYOKAR RUPE KALIDASER KRITTIYA
11	202513-11-0052	513-1211-0245-20	NATTYOKAR RUPE KALIDASER KRITTIYA
12	202513-11-0060	513-1212-0025-20	NATTYOKAR RUPE KALIDASER KRITTIYA
13	202513-11-0062	513-1212-0032-20	NATTYOKAR RUPE KALIDASER KRITTIYA
14	202513-11-0080	513-1212-0131-20	NATTYOKAR RUPE KALIDASER KRITTIYA
15	202513-11-0084	513-1212-0142-20	NATTYOKAR RUPE KALIDASER KRITTIYA
16	202513-11-0100	513-1212-0213-20	NATTYOKAR RUPE KALIDASER KRITTIYA
17	202513-11-0118	513-1213-0118-20	NATTYOKAR RUPE KALIDASER KRITTIYA
18	202513-11-0124	513-1214-0105-20	NATTYOKAR RUPE KALIDASER KRITTIYA
19	202513-11-0136	513-1215-0030-20	NATTYOKAR RUPE KALIDASER KRITTIYA
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25	202513-11-0035	513-1112-0035-20	NATTYOKAR RUPE KALIDASER KRITTIYA
26	202513-21-0060	513-1112-0090-20	NATTYOKAR RUPE KALIDASER KRITTIYA
27	202513-21-0075	513-1112-0160-20	NATTYOKAR RUPE KALIDASER KRITTIYA
28	202513-21-0077	513-1112-0167-20	NATTYOKAR RUPE KALIDASER KRITTIYA
29	202513-21-0082	513-1112-0179-20	NATTYOKAR RUPE KALIDASER KRITTIYA
30	202513-21-0105	513-1114-0101-20	NATTYOKAR RUPE KALIDASER KRITTIYA

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DEPARTMENT OF BOTANY

PRACTICAL CLASS DETAILS

Cryptogamic Botany

1. Microscopic preparation, drawing and labeling of different algal and fungal species.
2. Identification of algal and fungal specimens with reasons (macroscopic/microscopic as mentioned in the theoretical syllabus).
3. Identification of macroscopic/microscopic specimens of pteridophytes and gymnosperms (as mentioned in the syllabus).

Anatomy

1. Anatomical studies of roots, stems and leaves of both monocotyledonous and dicotyledonous plants (following double staining method).
2. Identification of anatomical slides (stellar types, transfusion tissue, sieve tube, sunken stomata, lenticels etc).

Pathology

1. Identification of pathological specimens of Late blight of potato, Brown spot of rice and stem rot of jute. (herbarium sheets/preserved).

Angiosperm morphology and taxonomy

2. Dissection, drawing, labeling and description of angiospermic plants and floral parts. Preparation of floral formula and floral diagram.
3. Field study, spot identification (scientific names and families) and collection of angiospermic plants.
4. Preparation of herbarium sheets.
5. Identification of different inflorescence types.

Cell biology and Genetics

1. Staining (Aceto-orcein) and squash preparation of onion root tip and study of mitotic stages.
2. Determination of mitotic index (from onion root tip).
3. Identification of cytological slides of mitotic and meiotic stages with reasons.

Microbiology

1. Demonstrate practical skills in fundamental microbiological technique.
2. Workout gram staining (curd/any natural source).
3. Identification of different forms of bacteria with reasons.

Plant Physiology

1. Experiment on Plasmolysis.
2. Measurement of leaf area (graphical method) and determination of transpiration rate per unit area by weighing method.
3. Imbibition of water by dry seeds (proteinaceous and fatty seeds).
4. Evolution of O_2 during photosynthesis (using graduated tube).
5. Evolution of CO_2 during aerobic respiration and measurement of volume.

Phytochemistry and medicinal botany

1. Preparation of solutions and buffers.
2. Acquaintance with laboratory instruments- Autoclave, Incubator, Clinical centrifuge, Analytical balance, pH meter, Colorimeter, Water bath, Distillation plant, Laminar air flow.

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3. Qualitative test for proteins and carbohydrates, reducing and non reducing sugar (glucose, fructose and sucrose)
4. Tests (chemical) for tannin and alkaloid.
5. Identification of medicinal plants (as mentioned in the syllabus).
6. Field study (local) and listing of medicinal plants.

Economic Botany

1. Study of economically important plants (rice/jute/ tea) through herbarium specimens and field study.
2. Study of cultivation practices in field.
3. Study of local economically important plants.

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DEPARTMENT OF CHEMISTRY

Correlation between Theory and Practical syllabus (under CBCS)

- **Organic Chemistry**

Syllabus: Theory	Application in Practical syllabus
Solubility of common Organic compounds in terms of covalent /non-covalent interactions and acidity / basicity and melting point of some organic compounds. Paper: CEMA-CC-1-1A-TH	Separation based upon solubility of a binary solid mixtures and determination of melting points. Paper: CEMA-CC-1-1-P
Boiling point of some common organic compounds. Paper: CEMA-CC-1-1A-TH	Determination of boiling point of some common organic liquid compounds. Paper: CEMA-CC-1-2-P
Aromatic electrophilic substitution reactions (nitration and bromination) and carbonyl and related compounds (Aldol condensation, hydrolysis of amides/esters). Paper: CEMA-CC-3-7-TH	Organic preparations Paper: CEMA-CC-2-3-P
Organic spectroscopy: IR spectroscopy and NMR spectroscopy Paper: CEMA-CC-4-8-TH	Spectroscopic analysis of Organic compounds Paper: CEMA-CC-5-12-P
Nitrogen compounds: Reduction of nitro compounds (Muliken Barker's test), diazocoupling reaction. Paper: CEMA-CC-4-8-TH	Qualitative analysis of single solid Organic compounds Paper: CEMA-CC-4-8-P
Green Chemistry: Principle of Green chemistry and designing green synthesis/reactions. Paper: DSE-A3	Preparation of some common organic compounds using Green organic synthetic method. Paper: DSE-A3-P

- **Physical Chemistry**

Syllabus: Theory	Application in Practical syllabus
Chemical Kinetics Paper: CEMA-CC-1-2-TH	Study of kinetics of decomposition of H_2O_2 Paper: CEMA-CC-1-2-P Kinetic Study of inversion of cane suger using a polarimeter Paper: CEMA-CC-4-9-P
Kinetics of Pseudo first order reaction Paper: CEMA-CC-1-2-TH	Study of kinetics of acid catalyzed hydrolysis of methyl acetate Paper: CEMA-CC-1-2-P
Transport process : Viscosity : Determination of viscosity coefficient of liquid using Ostwald's Viscometer Paper: CEMA-CC-1-2-TH	Study of viscosity of unknown liquid with respect to water, Study of variation of viscosity with the concentration of the solution CEMA-CC-1-2-P
Electrochemistry : Conductance and Transport Number : Determination of solubility product Paper: CEMA-CC-3-5-TH Redox Reaction : Solubility and solubility effect Paper: CEMA-CC-1-1-TH	Determination of solubility of sparingly soluble salt in water using common ion effect CEMA-CC-1-2-P
Electrochemistry : Conductance and Transport Number : Conductometric Titration Paper: CEMA-CC-3-5-TH	Conductometric Titration of an acid against strong base, Study of saponification reaction conductometrically CEMA-CC-3-5-P
Electrochemistry : Conductance and Transport Number Ostwald's Dilution Law Paper: CEMA-CC-3-5-TH	Verification of Ostwald's Dilution Law and determination of Ka of weak acid CEMA-CC-3-5-P

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Electrochemistry : Electromotive Force : Potentiometric Titration (Precipitation Titration ,redox) Paper: CEMA-CC-3-5-TH	Determination of Ksp for AgCl by potentiometric titration of AgNO3 solution using standard KCl, Potentiometric Titration of Mohr's Salt solution against standard K2Cr2O7 solution and KMnO4 solution CEMA-CC-3-5-P
1st Law of thermodynamics Paper: CEMA-CC-3-5-TH	Determination of heat of neutralization of a strong acid by a strong base CEMA-CC-3-5-P
Paper: CEMA-CC-1-1-TH	Acid Base neutralization curves CEMA-CC-4-9-P
Phase Equilibrium : Liquid-liquid Phase Diagram using Phenol Water System Paper: CEMA-CC-4-9-TH	Study of Phase Diagram of Phenol Water System CEMA-CC-4-9-P
Chemical Equilibrium : Distribution Coefficient Paper: CEMA-CC-3-5-TH	Determination of partition coefficient for the distribution of I_2 between water and CCl_4 CEMA-CC-4-9-P
Acid Base reactions : ph , buffer, Acid Base neutralization curves Paper: CEMA-CC-1-1-TH	Determination of pH of unknown solution (buffer) , . pH metric Titration of acid against strong base CEMA-CC-4-9-P
Numerical Analysis : Roots of equation : Quadratic Formula, Iterative methods (Newton Rapshon Method) , Least Square fitting , Trapezoidal and Simpson's Rule , Computer Programing Basics (FORTRAN) Paper: CEMA-CC-5-11-TH, Paper: DSE-A-2	Computer program (using FORTRAN) based on numerical methods CEMA-CC-5-11-P
MS- Excel , Statistical Analysis Paper: DSE-A-2	Application of Computers in Chemistry (Advanced Excel) Paper: DSE-A-2 Practical
Surface Tension and Energy Paper: CEMA-CC-6-14-TH	Determination of Surface Tension of a liquid using Stalagmometer, Determination of CMC of a micelle from surface tension measurement CEMA-CC-6-14-P
Photochemistry and theory of reaction rate Paper: CEMA-CC-6-14-TH	Determination of the indicator constant of an acid base indicator spectrophotometrically CEMA-CC-6-14-P
Photochemistry and theory of reaction rate : Beer and Lambert's Law Paper: CEMA-CC-6-14-TH	Verification of Beer and Lambert's Law for KMnO4 and K2Cr2O7 soution CEMA-CC-6-14-P
Electronic Spectroscopy Paper: CEMA-CC-6-14-TH	Study of kinetics of K2S2O8 + KI reaction spectrophotometrically CEMA-CC-6-14-P

- **Inorganic Chemistry**

Syllabus: Theory	Application in Practical syllabus
Acid-Base reactions Paper: CEMA-CC-1-1-TH	Acid and Base titrations Paper: CEMA-CC-1-1-P
Redox reactions Paper: CEMA-CC-1-1-TH	Oxidation-Reduction titrations of some transition metal ions. Paper: CEMA-CC-1-1-P
Coordination Chemistry Paper: CEMA-CC-3-6-TH	Complexometric titrations to estimate several metal ions. Paper: CEMA-CC-3-6-P
Coordination Chemistry: Crystal field theory and crystal field stabilization energy calculation in weak/strong field ligands.	Preparation of some transition metal complexes, measurement of 10Dq by spectrophotometric method and determination of

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Paper: CC-4-10-TH	□max of some complexes. Paper: CC-4-10-P
Inorganic materials of industrial importance: Theoretical knowledge about cement, fertilizer, alloys etc. Paper: DSE-A-2	Analysis of alloys and cement. Determination of composition of dolomite. Determination of free acidity in some common fertilizer like ammonium sulphate, super phosphate and calcium ammonium nitrate fertilizers. Paper: DSE-A-2-P
Theoretical principles and chemistry of different reactions in qualitative analysis. Paper: CEMA-CC-6-13-TH	Qualitative semi-micro analysis of mixtures: Separation and Identification of some cations and anions. Paper: CEMA-CC-6-13-P

STUDENTS UNDERTAKING PROJECT WORKS ON REVIEW ON A TOPIC

(DSE B4: DISSERTATION)
SEMESTER –VI SESSION : 2022-2023

Sl No	Name of the Student	Registration no (University of Calcutta)	Title of the Project	Name of the Supervisor
1.	Dolon Mandal	513-1214-0361-20	Gold Complexes as Anti-Cancer agents	Dr. Shefali Pal
2.	Shreya Jana	513-1214-0332-20	Catalyst for direct Ethanol Cells	Dr. Senjuti Banik
3.	Dip Mukherjee	513-1111-0274-20	Suzuki-Miyaura Coupling	Mr . Sandipan Mallik
4.	Gopal Saha	513-1111-0446-20	Solvent free synthesis of some organic compounds	Dr. Krishnendu Aich
5.	Utsav Mandal	513-1114-0306-20	Bio-fuel as a renewable energy source	Dr. Krishnendu Aich
6.	Bhagaban Naskar	513-1111-0853-20	Ni-based bimetallic heterogeneous catalyst for energy and environmental applications	Dr. Senjuti Banik
7.	Swapnil Ghosh	513-1111-0901-20	A study on the Degradation of synthetic azo-dyes	Dr. Durba Ganguly
8.	Rakesh Mondal	513-1112-0900-20	Microwave- assisted green organic synthesis	Dr. Krishnendu Aich
9.	Danish Ameen	513-1111-0807-18	A study on toxicity of azo-dyes and its measurement	Dr. Durba Ganguly

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STUDENTS UNDERTAKING PROJECT WORKS ON REVIEW ON A TOPIC
(DSE B4: DISSERTATION)
SEMESTER –VI SESSION : 2020-2021

Sl No	Name of the Student	Registration no (University of Calcutta)	Title of the Project	Name of the Supervisor
1.	Asis Khatua	513-1111-0040-18	Degradation of synthetic azo dye compounds	Dr. Durba Ganguly
2.	Atish Modak	023-1114-0224-17	Review on radioprotector and radiosensitizer	Dr. Durba Ganguly
3.	Chandrani Pramanik	513-1211-0114-18	A review on sensors for the optical detection of cyanide ion	Dr. Krishnendu Aich
4.	Subha Ghorai	513-1111-0849-18	A short review on Ni-based bimetallic heterogeneous catalyst for energy and environmental applications	Dr. Senjuti Banik
5.	Ayan Nath	513-1111-0151-18	Fuel cell technologies and power electronic interface	Dr. Senjuti Banik
6.	Meghna Bhattacharya	513-1211-0073-18	Synthesis and prospective applications of nitrogen doped grapheme:a short review	Dr. Senjuti Banik
7.	Aditi Saxena	513-1211-0819-18	Toxicity of azo dyes and its measurement	Dr. Durba Ganguly
8.	Argha Karmakar	513-1111-0111-18	A short review on efficient catalysts for direct ethanol fuel cell	Dr. Senjuti Banik
9.	Pabitra Maity	513-1111-0122-18	Review on high performance Pt electrocatalysts for fuel cell application	Dr. Senjuti Banik
10	Debdutta Mondal	513-1114-0131-18	Review on sensors for highly toxic chemical warfare agents	Dr. Krishnendu Aich
11	Abhash Kayal	513-1111-0109-18	Fluoro and Chromogenic chemodosimeters for heavy metal ion detection	Dr. Krishnendu Aich
12	Aniruddha Das	513-1111-0117-18	Recent developments of fluroscent probes for detection of NO,H_2S and CO	Dr. Krishnendu Aich
13	Soumen Chhatui	513-1112-0060-18	A review on Fluorescent chemosensor for detection of Cu^{2+}	Dr. Krishnendu Aich
14	Kingshuk Patra	115-1112-1100-17	Anticancer activity of azo dyes	Dr. Durba Ganguly

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DEPARTMENT OF COMPUTER SCIENCE

PRACTICAL CLASS DETAILS

Three-year (CBCS) B.Sc. (Honours &General) Courses of Studies in Computer Science effective from the Odd Semester Examination, 2019.

SEMESTER-I, Paper-CC-1-1-P, Full Marks-30, Title:-Digital Circuits, Credits:-2, Contact hours - 40, Duration of Examination: 3hours

Combinational Circuits

Sequential Circuits

SEMESTER-I, Paper-CC-1-2-P, Full Marks-30, Title:-Programming with C, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

Problems should cover features of the language. Following are the some example:-

SEMESTER-II, Paper-CC-2-3-P, Full Marks-30, Title:-Data structure using C, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

Lab based on Data Structure theory except Threaded Binary Tree, Shell Sort, Radix Sort and hashing.

SEMESTER-II, Paper-CC-2-4-P, Full Marks-30, Title:-Basic Electronic Devices and Circuits Lab, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

SEMESTER-III, Paper-CC-3-5-P, Full Marks-30, Title:-Computer Organization Lab, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

SEMESTER-III, Paper-CC-3-6-P, Full Marks-30, Title:-Computational Mathematics Lab, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

Lab. based on Numerical Methods using C.

SEMESTER-III, Paper-CC-3-7-P, Full Marks-30, Title:-Operating Systems Lab, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

Shell programming in LINUX

SEMESTER-IV, Paper-CC-4-8-P, Full Marks-30, Title:-Computer Networking and Web Design Lab, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

Computer Networks: Practical Familiarization with Networking cables (CAT5, CAT6, UTP), Connectors (RJ-45, T-connector), Hubs, Switches, LAN installation & configuration (peer-to-peer) process.	05 hours
Web Design: Practical Web page design by HTML	
Handling HTML form *HTML* Capturing Form Data, GET and POST form methods, Dealing with multi value fields Redirecting a form after submission.	20 hours

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Array Anatomy of an Array ,Creating index based and Associative array, Accessing array Looping with Index based array, with associative array using each() and for each() Some useful Library function.	15 hours

SEMESTER-IV, Paper-CC-4-9-P, Full Marks-30, Title:-Algorithms Lab, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

Lab. based on Graph Theory using C

SEMESTER-IV, Paper-CC-4-10-P, Full Marks-30, Title:-Programming with Microprocessor 8085, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

SEMESTER-V, Paper-CC-5-11-P, Full Marks-30, Title:-RDBMS lab using My SQL & PHP, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

RDBMS Lab using My SQL & PHP

SEMESTER-V, Paper-CC-5-12-P, Full Marks-30, Title:-OOPs Lab using JAVA, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

SEMESTER-V, Paper-DSE-A-1-P, Full Marks-30, Title:-Image processing Lab, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

Assignments on Different Image Processing Functions based on Open CV & Python/Scilab

SEMESTER-V, Paper-DSE-B-2-P, Full Marks-30, Title:-Programming in Python Lab, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

Use Python 3.6 or above. Use a text editor sensitive to whitespace like Notepad++, gedit, vim, Sublime Text, and NOT Notepad / WordPad. The following exercises are suggestive in nature.

SEMESTER-VI, Paper-CC-6-13-P, Full Marks-30, Title:-Project Design and Documentation, Credits:-2

Candidates have to do their project in any relevant topic, under the supervision of teachers.

SEMESTER-VI, Paper-CC-6-14-P, Full Marks-30, Title:-Project Implementation and presentation, Credits:-2

SEMESTER-VI, Paper-DSE-A-4-P, Full Marks-30, Title:-Multimedia and its Application Lab, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

Sample practical problems can be included related to theory.

SEMESTER-VI, Paper-DSE-B-3-P, Full Marks-30, Title:-Computational Intelligence Lab, Credits:-2, Contact hours - 40, Duration of Examination: 3 hours

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Computational intelligence lab using Prolog / LISP

Projects outside course curriculum:

Departmental Students has taken IKS related mini project work under the guidance of Departmental teachers.

DEPARTMENT OF EDUCATION

PRACTICAL CLASS DETAILS

Education Honours

Academic session 2020-21, 2021-22 &2022-23

- Under CBCS system a student of Education honours has to do Practicals in Semster V and Semster VI.
- In Semester V they perform practical in CC12 (2 Credit per week)
- In Semester VI they perform practical in CC13 (2 Credit per week)

  Every Week 2 classes are allotted for practical each semester.

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DEPARTMENT OF GEOGRAPHY

PRACTICAL CLASS DETAILS

As per the Under Graduate curriculum of Geography (CBCS), framed by the University of Calcutta, each Core Course (CC) or Discipline Specific Course (DSE) has a practical component of 2 credits. For each credit of practical components, 2 classes are allotted per week. Only Skill Enhancement Course (SEC) does not have any practical unit. In the Department of Geography, there are five laboratories, including one GIS laboratory and one soil laboratory. All the laboratories are well equipped, having necessary facilities to carry out the practical exercises, prescribed in the curriculum. The practical classes help the students to get a hands-on understanding of the subject and they can experience how the theory they learn, applies to the real life situation. The details of the Geography practical classes are shown in the following table:

Practical Exercises	Instruments/maps used	Semester	Course
Measurement of dip and strike of rock strata	Clinometer	I	CC1
Identification of rocks and minerals	Specimens of rocks and minerals, knife, strike plate, hydrochloric acid .	I	CC1
Analysis and interpretation of Topographical maps	Survey of India Topographical maps of 1:50,000 scale	I	CC1
Cartographic techniques – scale and projections	Drawing instruments, globe, wire globe	I	CC2
Representation of demographic data	Drawing instruments	II	CC3
Interpretation of Geological map	Geological maps and drawing instruments	II	CC4
Surveying	Prismatic compass, Theodolite, Dumpy level and accessories	II	CC4
Measurement of temperature, pressure, humidity etc.	Maximum and Minimum Thermometer, Hygrometer, Fortin's Barometer	III	CC5
Interpretation of weather map	Weather maps maps and drawing instruments	III	CC5
Graphical representation of hydrological data	Drawing instruments	III	CC6
Representation of statistical data	Drawing instruments	III	CC7

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Graphical representation of economic data	Drawing instruments	IV	CC8 &CC9
Analysis of soil sample	PH meter, Refractometer, Sieve etc.	IV	CC10
Field work	Almost all of the above mentioned instruments necessary for collecting field data and GPS	V	CC11
Remote Sensing, GIS and GNSS	Remote sensing software, GIS software, GPS, Satellite imageries, Aerial photographs etc.	V	CC12
Representation of climatic data, social data and settlement data	Drawing instruments and Survey of India Topographical maps of 1:50,000 scale	V	DSE A2 &DSE B 5
Poster presentation on different school of thoughts	Instruments, equipments, computers as required	VI	CC13
Project report on natural hazards	Instruments, equipments, computers as required	VI	CC14
Resource mapping and representation of regional data using suitable cartographic techniques	Drawing instruments	VI	DSE A4 &DSE B8

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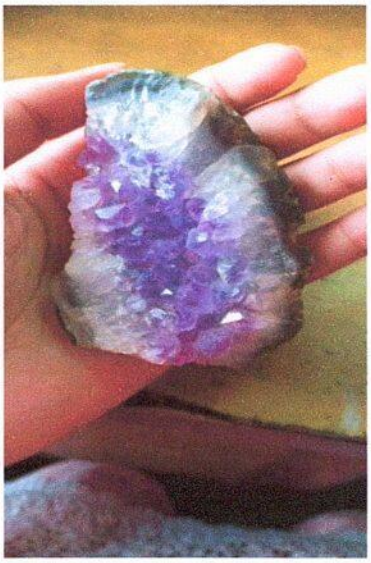
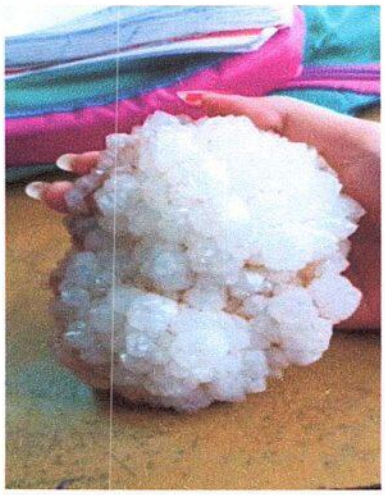
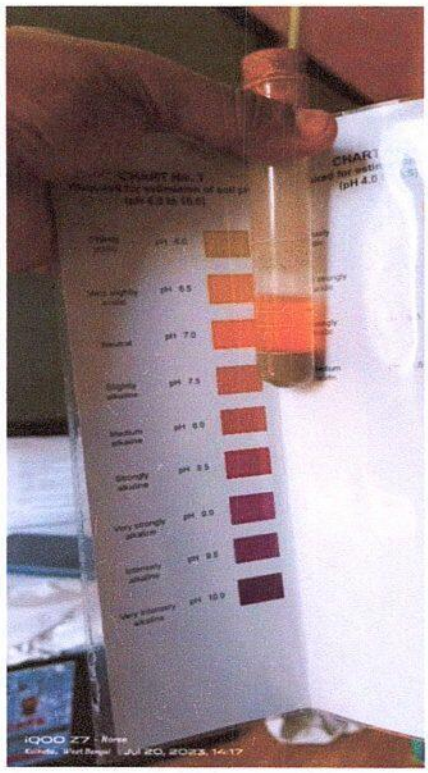




Identification of rocks and minerals



Testing of soil sample in the Soil laboratory

Surveying in the college ground

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Projects outside course curriculum:

Sl No	Project Title	Commencement	Number of students involved	Supervisor
1	Air quality assessment in the adjacent Urban area of SammilaniMahavidyalaya: A case study of Rajpur-Sonarpur Municipality	April, 2022	07	Prof. Kamonasish Mistry
2	Relevance of Indian knowledge system in sustainable water conservation and management	September, 2022	07	Dr. Paramita Das gupta and Prof. Nayan Roy
3	Influence of Soil and Water properties on agricultural productivity: A case study of Bagmundi Village, Puruliya	October, 2022	07	Prof. Kamonasish Mistry

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DEPARTMENT OF MATHEMATICS

PROJECT AND TUTORIALS

TUTORIAL PROJECT WORK FOR THE SESSION – 2022-23
SEMESTER – IV

Sl. No.	Name	Reg. No.	Reg. No.	Project Title	Guided By
1	Suvankar Gayen	513-1114-0280-21	213513-21-0123	AB	
2	Sumana Giri	513-1211-0312-21	213513-11-0004	Motion in a Straight line	MR
3	Sudip Maity	513-1111-0338-21	213513-21-0020	The Riemann Integral	SS
4	Soudip Naskar	513-1112-0387-21	213513-21-0099	Coplannar forces & its resolution	RH
5	Rajesh Sardar	513-1112-0388-21	213513-21-0100	Sequence of Functions	SS
6	Shibam Naskar	513-1112-0406-21	213513-21-0105	Motion in a Resisting Medium	MR
7	Suman Chatterjee	513-1111-0408-21	213513-21-0039	AB	
8	Sohel Sardar	513-1111-0413-21	213513-21-0043	The principle of Virtual Work	RH
9	Ayan Mandal	513-1112-0423-21	213513-21-0109	Central Orbit	MR
10	Sudip Das	513-1111-0425-21	213513-21-0047	Coplanar Forces	RH
11	Snehajit Das	513-1111-0427-21	213513-21-0049	Uniform convergence in sequence of functions	MR

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TUTORIAL PROJECT WORK FOR THE SESSION – 2022-23
SEMESTER – VI

Sl. No.	Name	Roll No	Reg. No	Project Title	Guided By
1	Arpita samanta	203513-11-0003	513-1211-0282-20	Inverse Laplace Transform	RH
2	Sushama Das	203513-11-0010	513-1211-0310-20	Basic notion of Connectedness	SD
3	Sabana Khatun	203513-11-0078	513-1215-0429-20	Basic notion of Separation Axioms	SD
4	Payel Pradhan	203513-11-0080	513-1211-0858-20	Random number Generation and its Application	MR
5	Sudipa Jana	203513-11-0082	513-1214-0851-20	Concept of Bessel's Differential equation	RH
6	Saikat Maiti	203513-21-0014	513-1111-0305-20	Stereographic Projection of Complex plane	SD
7	Akashdeep Bera	203513-21-0018	513-1111-0320-20	Mathematical Tools to execute Monte carlo Simulation	MR
8	Subham Jana	203513-21-0019	513-1111-0321-20	Some Basic Analysis in Metric Space	SD
9	Subhrajyoti Manna	203513-21-0020	513-1111-0323-20	Topological Aspect of Metric Space	SD
10	Ankit mukherjee	203513-21-0027	513-1111-0357-20	Sensitivity Analysis (Mathematical Modelling)	MR
11	Soumyadip Karmakar	203513-21-0030	513-1111-0370-20	Complete Metric Space	SS
12	Prabal Baneejee	203513-21-0042	513-1111-0400-20	Some Property of Differentiability	SS
13	Ayan Halder	203513-21-0052	513-1111-0434-20	Legendre Polynomial Differential equation	RH
14	Subhadip Adhikary	203513-21-0056	513-1111-0440-20	Basic notion of Laplace Transform	RH
15	Ayan Bera	203513-21-0066	513-1111-0465-20	Middle Square Method and its Application	MR
16	Ayan Jana	203513-21-0072	513-1112-0261-20	Sequence in Metric Space	SS
17	ARPAN MONDAL	203513-21-0075	513-1112-0267-20	Introduction to subspace Topology	SD
18	Tanmoy Gayen	203513-21-0085	513-1112-0343-20	Harmonic Function and its Application	SD
19	LOKESH MONDAL	203513-21-0098	513-1112-0397-20	AB	
20	Subham Mondal	203513-21-0117	513-1114-0322-20	Basic notion of Compactness	SD
21	Kinkar Gayen	203513-21-0123	513-1114-0419-20	Queuing Theory and its Application	MR
22	Aritra Pradhan	203513-21-0138	513-1111-0854-20	Continuity in Metric Space	SS
23	Mrinmoy Nath	203513-21-0139	513-1111-0855-20	Completeness of Metric space	SS
24	Mallar Bhattacharya	203513-21-0140	513-1111-0856-20	Some Basic Analysis of Topology	SD
25	JAYANTA SIKARI	203513-21-0142	513-1112-0850-20	Some Tools to study completeness of Metric Space	SS
26	Prantik Haldar	203513-21-0143	513-1112-0852-20	Laplace Transform and it's Application	RH

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Department of Mathematics

List of Participating Students for Mini Research Project

" Sulba Sutras - Mathematics Yajurveda"

(Session: 2022-23)

SL. No.	Name	Roll Number	Registration Number	Semester/ Class
1	Akashdeep Bera	203513-21-0018	513-1111-0320-20	VI
2	Subham Jana	203513-21-0019	513-1111-0321-20	VI
3	Ankit Mukherjee	203513-21-0027	513-1111-0357-20	VI
4	Shubham Mondal	203513-21-0117	513-1114-0322-20	VI
5	Mallar Bhattacharya	203513-21-0140	513-1111-0856-20	VI

Guided By

1. **Dr. Sumita Das**
2. **Ms. Sukti Sen**

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Śulba Sūtras
Mathematics In YajurVeda

Research Project

SESSION 2022 - 23

Department of Mathematics
Sammilani Mahavidyalaya

Project by

Akashdeep Bera
Shubham Jana
Ankit Mukherjee
Shubham Mondal
Mallar Battacharya

Guided by

Dr. Sumita Das
Ms. Sukti Sen

PRACTICALS AND PROJECT

DEPARTMENT OF MICROBIOLOGY

Sem	Course	Credits	Topics
I	**CC-1: Introduction To Microbiology And Microbial Diversity (Practical)**	2	**TOTAL HOURS: 60 CREDITS: 2** 1. Microbiology Good Laboratory Practices and Biosafety. 2. To study the principle and applications of important instruments (biological safety cabinets, autoclave, incubator, BOD incubator, hot air oven, light microscope, pH meter) used in the microbiology laboratory. 3. Preparation of culture media for bacterial cultivation. 4. Sterilization of medium using Autoclave and assessment for sterility 5. Sterilization of glassware using Hot Air Oven and assessment for sterility 6. Sterilization of heat sensitive material by membrane filtration and assessment for sterility 7. Demonstration of the presence of microflora in the environment by exposing nutrient agar plates to air. 8. Study of Rhizopus, Penicillium, Aspergillus using temporary mounts 9. Study of Spirogyra and Chlamydomonas, Volvox using temporary Mounts 10. Study of the following protozoans using permanent mounts/photographs: Amoeba, Entamoeba, Paramecium and Plasmodium
	CC-2: Bacteriology (Practical)	2	**TOTAL HOURS: 60 CREDITS: 2** 1. Preparation of different media: synthetic media CzapekDox media and /or BG-11, Complex media-Nutrient agar, McConkey agar, EMB agar. 2. Simple staining 3. Negative staining 4. Gram's staining 5. Acid fast staining-permanent slide only. 6. Capsule staining 7. Endospore staining. 8. Isolation of pure cultures of bacteria by streaking method. 9. Preservation of bacterial cultures by various techniques. 10. Estimation of CFU count by spread plate method/pour plate method. 11. Motility by hanging drop method.
II	**CC-3: Biochemistry (Practicals)**	2	**TOTAL HOURS: 60 CREDITS: 2** 1. Properties of water, Concept of pH and buffers, preparation of buffers and Numerical problems to explain the concepts. 2. Numerical problems on calculations of Standard Free Energy Change and Equilibrium constant. 3. Standard Free Energy

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			Change of coupled reactions. 4. Qualitative/Quantitative tests for carbohydrates, reducing sugars, non-reducing sugars 5. Qualitative/Quantitative tests for lipids and proteins. 6. Study of protein secondary and tertiary structures with the help of models. 7. Study of enzyme kinetics – calculation of V_{max}, Km, Kcat values. 8. Study effect of temperature, pH and Heavy metals on enzyme activity 9. Estimation of any one vitamin
	CC-4: Cell Biology (Practical)	**2**	**TOTAL HOURS: 60 CREDITS: 2** 1. Study a representative plant and animal cell by microscopy. 2. Study of the structure of cell organelles through electron micrographs. 3. Cytochemical staining of DNA-Feulgen. 4. Demonstration of the presence of mitochondria in striated muscle cells/ cheek epithelial cell using vital stain Janus Green B. 5. Study of polyploidy in Onion root tip by colchicine treatment. 6. Identification and study of cancer cells by photomicrographs. 7. Study of different stages of Mitosis. 8. Study of different stages of Meiosis.
III	**CC-5: Virology (Practical)**	**2**	**TOTAL HOURS: 60 CREDITS: 2** 1. Study of the structure of important animal viruses (rhabdo, influenza, paramyxo hepatitis B and retroviruses) using electron micrographs 2. Study of the structure of important plant viruses (caulimo, Gemini, tobacco ring spot, cucumber mosaic and alpha-alpha mosaic viruses) using electron micrographs. 3. Study of the structure of important bacterial viruses (ϕX 174, T4, λ) using electron micrograph. 4. Isolation and enumeration of bacteriophages (PFU) from water/sewage sample using double agar layer technique. 5. Studying isolation and propagation of animal viruses by chick embryo technique 6. Study of cytopathic effects of viruses using photographs 7. Perform local lesion technique for assaying plant viruses.
	CC-6: Microbial Physiology And Metabolism (Practical)	**2**	**TOTAL HOURS: 60 CREDITS: 2** 1. Study and plot the growth curve of *E. coli* by turbidometric and standard plate count methods. 2. Calculations of generation time and specific growth rate of bacteria from the graph plotted with the given data 3. Effect of temperature on growth on *E. coli*. 4. Effect of pH on growth of *E. coli*. 5. Effect of carbon and nitrogen sources on growth of *E. coli*. 6. Effect of salt on growth of *E. coli*. 7. Demonstration of alcoholic fermentation 8. Demonstration of the thermal death time and decimal reduction time of *E. coli*.

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	CC-7: Molecular Biology (Practical	**2**	**TOTAL HOURS: 60 CREDITS: 2** 1. Study of different types of DNA and RNA using micrographs and model / schematic representations. 2. Study of semi-conservative replication of DNA through micrographs / schematic representations. 3. Isolation of genomic DNA from *E. coli*. 4. Estimation of salmon sperm / calf thymus DNA using colorimeter (diphenylamine reagent) or UV spectrophotometer (A260 measurement). 5. Estimation of RNA using colorimeter (orcinol reagent) or UV spectrophotometer (A260 measurement). 6. Resolution and visualization of DNA by Agarose Gel Electrophoresis. 7. Resolution and visualization of proteins by Polyacrylamide Gel Electrophoresis (SDS-PAGE).
IV	**CC-8: Microbial Genetics (Practical)**	**2**	**TOTAL HOURS: 60 CREDITS: 2** 1. Preparation of Master and Replica Plates. 2. Study the effect of chemical (HNO2) and physical (UV) mutagens on bacterial cells. 3. Study survival curve of bacteria after exposure to ultraviolet (UV) light. 4. Isolation of Plasmid DNA from *E. coli.* 5. Study different conformations of plasmid DNA through Agaraose gel electrophoresis. 6. Demonstration of Bacterial Conjugation. 7. Demonstration of bacterial transformation and transduction. 8. Demonstration of AMES test.
	CC-9: Environmental Microbiology (Practical)	**2**	**TOTAL HOURS: 60 CREDITS: 2** 1. Analysis of soil - pH, moisture content, water holding capacity, percolation, capillary action. 2. Isolation of microbes (bacteria & fungi) from soil (28°C & 45°C). 3. Isolation of microbes (bacteria & fungi) from rhizosphere and rhizoplane. 4. Assessment of microbiological quality of water. 5. Determination of BOD of waste water sample. 6. Study the presence of microbial activity by detecting (qualitatively) enzymes (dehydrogenase, amylase, urease) in soil. 7. Isolation of *Rhizobium* from root nodules.
	CC-10: Recombinant DNA Technology (Practical	**2**	**TOTAL HOURS: 60 CREDITS: 2** 1. Preparation of competent cells for transformation. 2. Demonstration of Bacterial Transformation and calculation of transformation efficiency. 3. Digestion of DNA using restriction enzymes and analysis by agarose gel electrophoresis. 4. Ligation of DNA fragments. 5. Cloning of DNA insert and Blue white screening of recombinants. 6. Interpretation of sequencing gel electropherograms. 7. Designing of primers for DNA amplification. 8. Amplification of DNA

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			by PCR. 9. Demonstration of Southern blotting
V	**CC-11: Food And Dairy Microbiology (Practical**	2	**TOTAL HOURS: 60 CREDITS: 2** 1. MBRT of milk samples and their standard plate count. 2. Alkaline phosphatase test to check the efficiency of pasteurization of milk. 3. Isolation of any food borne bacteria from food products. 4. Isolation of spoilage microorganisms from spoiled vegetables/fruits. 5. Isolation of spoilage microorganisms from bread. 6. Preparation of Yogurt/Dahi.
	CC-12: Industrial Microbiology (Practical)	2	**TOTAL HOURS: 60 CREDITS: 2** 1. Study different parts of fermenter. 2. Microbial fermentations for the production and estimation (qualitative and quantitative) of: (a) Enzymes: Amylase and Protease (b) Amino acid: Glutamic acid (c) Organic acid: Citric acid (d) Alcohol: Ethanol. 3. A visit to any educational institute/ industry to see an industrial fermenter, and other downstream processing operations.
	DSE-A: 1. Microbial Biotechnology (Practical)	2	**TOTAL HOURS: 60 CREDITS: 2** 1. Study yeast cell immobilization in calcium alginate gels. 2. Study enzyme immobilization by sodium alginate method. 3. Pigment production from fungi (*Trichoderma* / *Aspergillus* / *Penicillium*). 4. Isolation of xylanase or lipase producing bacteria. 5. Study of algal Single Cell Proteins.
	DSE-B: 1. Inheritance Biology (Practical)	2	**TOTAL HOURS: 60 CREDITS: 2** 1. Mendelian deviations in dihybrid crosses. 2. Studying Barr Body with the temporary mount of human cheek cells. 3. Studying *Rhoeo* translocation with the help of photographs. 4. Karyotyping with the help of photographs. 5. Chi-Square Analysis. 6. Study of polytene chromosomes using temporary mounts of salivary glands of *Chiromonas /Drosophila* larvae. 7. Study of pedigree analysis. 8. Analysis of a representative quantitative trait.
VI	**CC-13: Immunology (Practical)**	2	**TOTAL HOURS: 60 CREDITS: 2** 1. Identification of human blood groups. 2. Perform Total Leukocyte Count of the given blood sample. 3. Perform Differential Leukocyte Count of the given blood sample. 4. Separate serum from the blood sample (demonstration). 5. Perform immunodiffusion by Ouchterlony method. 6. Perform DOT ELISA. 7. Perform immunoelectrophoresis.
	CC-14: Medical Microbiology (Practical)	2	**TOTAL HOURS: 60 CREDITS: 2** 1. Identify bacteria (any three of *E. coli, Salmonella, Pseudomonas, Staphylococcus, Bacillus*) using laboratory strains on the basis of


			cultural, morphological and biochemical characteristics: IMViC, TSI, nitrate reduction, urease production and catalase tests. 2. Study of composition and use of important differential media for identification of bacteria: EMB Agar, McConkey agar, Mannitol salt agar, Deoxycholate citrate agar, TCBS. 3. Study of bacterial flora of skin by swab method. 4. Perform antibacterial sensitivity by Kirby-Bauer method. 5. Determination of minimal inhibitory concentration (MIC) of an antibiotic. 6. Study symptoms of the diseases with the help of photographs: Polio, anthrax, herpes, chicken pox, HPV warts, AIDS (candidiasis), dermatomycoses (ring worms). 7. Study of various stages of malarial parasite in RBCs using permanent mounts.
	DSE-A: 3. Plant Pathology (Practical)	**2**	**TOTAL HOURS: 60 CREDITS: 2** 1. Demonstration of Koch's postulates in fungal, bacterial and viral plant pathogens. 2. Study of important diseases of crop plants by cutting sections of infected plant material - *Albugo, Puccinia, Ustilago, Fusarium, Colletotrichum.*
	DSE-B: 3. Instrumentation And Biotechniques (Practical)	**2**	**TOTAL HOURS: 60 CREDITS: 2** 1. Study of fluorescent micrographs to visualize bacterial cells. 2. Ray diagrams of phase contrast microscopy and Electron microscopy. 3. Separation of mixtures by paper / thin layer chromatography. 4. Demonstration of column packing in any form of column chromatography. 5. Separation of protein mixtures by any form of chromatography. 6. Separation of protein mixtures by Polyacrylamide Gel Electrophoresis (PAGE). 7. Determination of λ_{max} for an unknown sample and calculation of extinction coefficient. 8. Separation of components of a given mixture using a laboratory scale centrifuge. 9. Understanding density gradient centrifugation with the help of pictures.

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PROJECTS

Database On Microbiology Traditional Knowledge of India	1.Aryoma Chakrabarti	1.Koyel Saha 2.Sekh Anas Bin Salam 3.Chitralekha Pal 4.Rupsa Parvin

Students undertaking project works on Environment Pollution (Sem II, Session 2022-2023)

Sl. No.	Name of students	Registration No.	Title of project	Name of Supervisor
1	Bikram Gharami	513-1112-0467-22	Impact of human being on Environment	Sharmila Chakraborty
2	Mohasin Mondal	513-1111-0366-22	Impact of human being on Environment	Sharmila Chakraborty
3	Ritam Naskar	513-1112-0277-20	Plastic Pollution	Aryoma Chakrabarti
4	Supratik Das	513-1112-0495-22	Plastic Pollution	Aryoma Chakrabarti
5	Siraj Molla	513-1115-0334-22	Plastic Pollution	Aryoma Chakrabarti
6	Probal Mondal	513-1112-0310-22	Plastic Pollution	Aryoma Chakrabarti
7	Arka Chakraborty	513-1111-0464-22	Plastic Pollution	Aryoma Chakrabarti
8	Tuhin Dey	513-1111-0448-22	Plastic Pollution	Aryoma Chakrabarti
9	Prerana Dey	513-1214-0449-22	Plastic Pollution	Aryoma Chakrabarti
10	Serina Khatun	513-1214-0395-22	Plastic Pollution	Madhuwrita Saha
11	Sunanda Sahoo	513-1214-0317-22	Plastic Pollution	Madhuwrita Saha
12	Dipa Bairagi	513-1212-0423-22	Plastic Pollution	Madhuwrita Saha
13	Riya Shaw	513-1211-0444-22	Plastic Pollution	Madhuwrita Saha
14	Meghla Sakhari	513-1211-0396-22	Plastic Pollution	Madhuwrita Saha
15	Sreetama Pal	513-1211-0393-22	Plastic Pollution	Madhuwrita Saha
16	Pallabi Maity	513-1211-0333-22	Plastic Pollution	Madhuwrita Saha
17	Subhadeep Mondal	513-1112-0400-22	Microplastic	Pamela DuttaRoy
18	Pabitra Haldar	513-1112-0300-22	Microplastic	Pamela DuttaRoy
19	Shirsam Banik	513-1111-0357-22	Microplastic	Pamela DuttaRoy
20	Mayukh Banerjee	513-1111-0322-22	Microplastic	Pamela DuttaRoy
21	Ishani Mondal	513-1212-0403-22	Microplastic	Pamela DuttaRoy
22	Ankita Bhattacharya	513-1211-0485-22	Microplastic	Pamela DuttaRoy

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23	Dipa Das Khan	513-1211-0424-22	Microplastic	Pamela DuttaRoy
24	Dipanjana Haldar	513-1211-0397-22	Microplastic	Pamela DuttaRoy
25	Jui Acharjee	513-1211-0351-22	Microplastic	Pamela DuttaRoy
26	Iman Sengupta	513-1211-0343-22	Microplastic	Pamela DuttaRoy

Project on Analysis of college water samples for potentialcoliform contamination: August 2018

The project was carried out by Dr. Susmita Mondol and the Microbiology Honours Third Year Students of batch 2018-19.

College Tap water

FINAL CONCLUSION:

For college drinking water: The sample failed to produce gas formation in presumptive test and could not form the typical characteristics colony in both endo and EMB plated in confirmatory test. Hence, the college drinking water is not contaminated with coliforms. However, in endo plate, it produces a transparent glossy colony which in Gram staining showed the presence of Gram-negative small rods, which is a concern.

For college tap water:

The college tap water sample give positive results in three successive steps, i.e. presumptive, confirmatory and completed test confirming the presence of coliforms. The college tap water is contaminated with coliforms and need immediate action.

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DEPARTMENT OF PHILOSOPHY

PRACTICALS AND PROJECTS

TITLE OF THE RESEARCH PROJECT:

CONTRIBUTION OF AYURVEDA IN FOUNDATION OF BASIC PRINCIPLES OF MEDICAL ETHICS

NAME OF THE DEPARTMENT: PHILOSOPHY

NAME OF THE GUIDING FACULTY/S:

SANGITA DEY SARKAR AND TAMASHA SARANGI

Name of the participating Students:

1. Tanbir Alam (Sem -III) / 513-1111-0257-21
2. Suman Kunthi (Sem-III) / 513-1112-0007-21
3. Samriddhi Naskar (Sem-III) / 513-1212-0048-21
4. Sayantika Das (Sem- III) / 513-1212-0155-21
5. Kamalesh Sardar (Sem-I) / 513-1111-0262-22
6. Joytish Ghosh (Sem-I) / 513-1111-0267-22
7. Koyel Pahari (Sem-I) / 513-1211-0004-21

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Proposed research work aims to review and compare universally accepted basic principles of medical ethics with ancient Ayurvedic ethics. The four basic **principles** of medical ethics are: **autonomy, beneficence, non-maleficence** and **justice**. These are known as "Principlism". Though these four principles are influenced by the western world, but in the medical field they are adapted as universal ethics. Originally, Ayurveda, the Indian medical system, has strongly advocated ethical code of conduct for physicians, but does not get its due recognition till date. It was observed that the essence of ethics is very well-defined and described in the fundamental texts of Ayurveda in the form of *Sadvritta*, *Chatushpada*, *Yogya*, *Vaidyavritti* and *Aachara Rasayana*. So, Ayurveda should be considered as the pioneer in establishing the basic tenets of medical ethics. To investigate our Vedic contribution in building up the principles of medical ethics, classical texts of Ayurveda and literature regarding principlism will be collected and analysed thoroughly.

Keywords: Ayurveda, principlism, medical ethics, Sadvritta, Chatushpada, Yogya, Vaidyavritti.

Methodology:

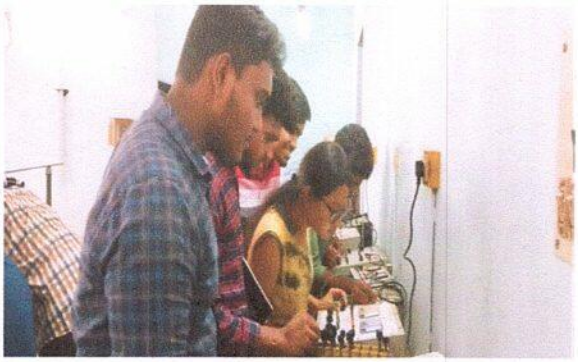
Step 1: Literature survey

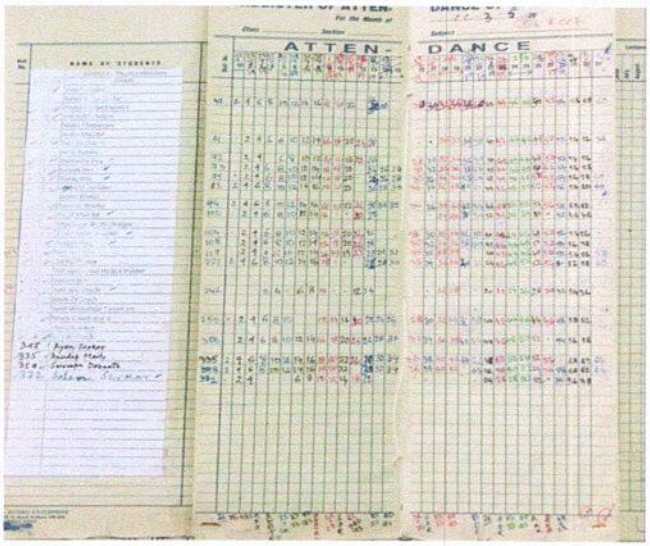
Step 2: Data collection

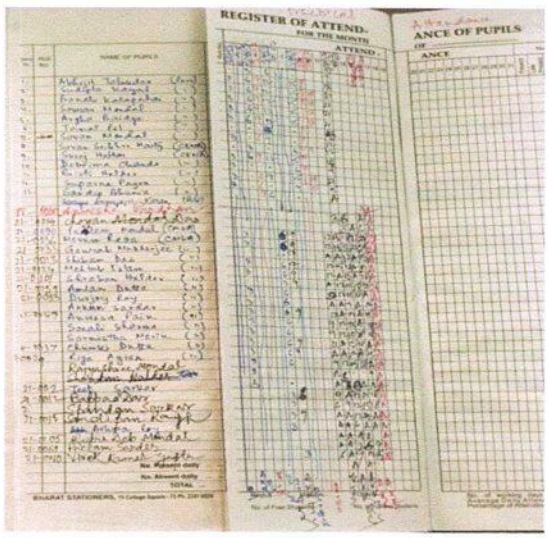
Step 3: Common peoples' opinion Survey

Step 4: Data Analysis

Step 5: Holistic Synthesisation of the findings.







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Supporting Documents: Participative Learning

Participative Learning comes from the concept of participation in activities and projects and intellect sharing in a group. The process aims at mutual learning and has immense implications in the behaviorism as well as in cognitive and social psychology. Collaboration is a useful tool used within participatory culture and this has a favorable educational outcome. The strategies adopted by the college for this purpose include:

- Poster presentation by the students
- Wall Magazines
- Group Discussions and debates
- Quiz held in classes by the teachers
- Departmental Exhibitions where students participate in groups
- Cultural programs organized by different departments where students participate and learn the art of working as a team

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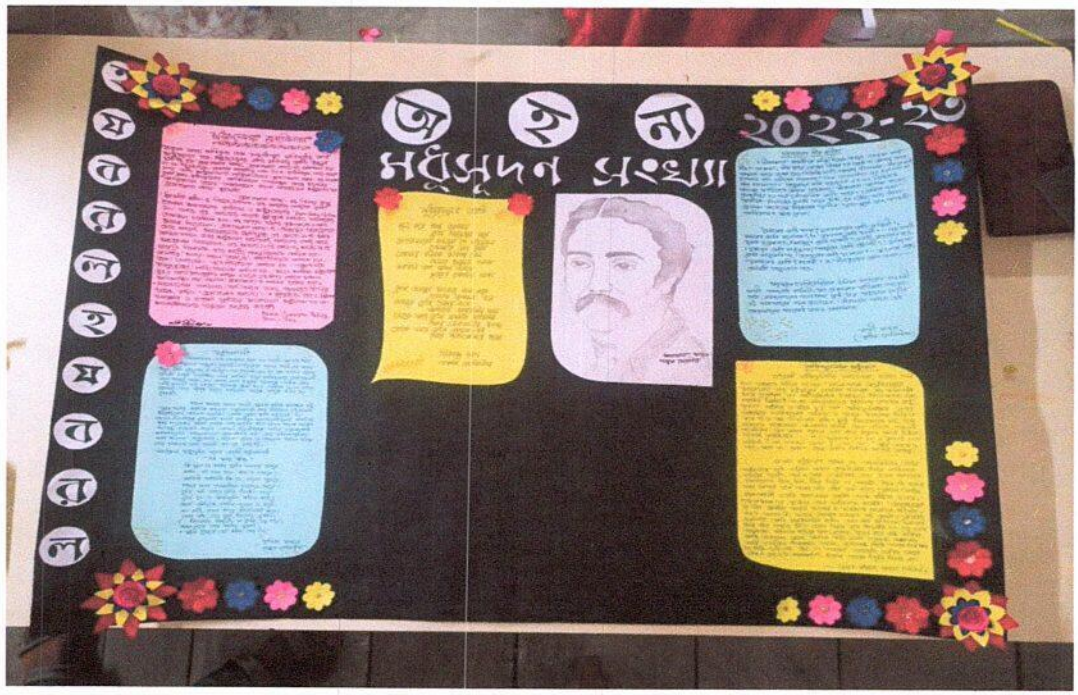
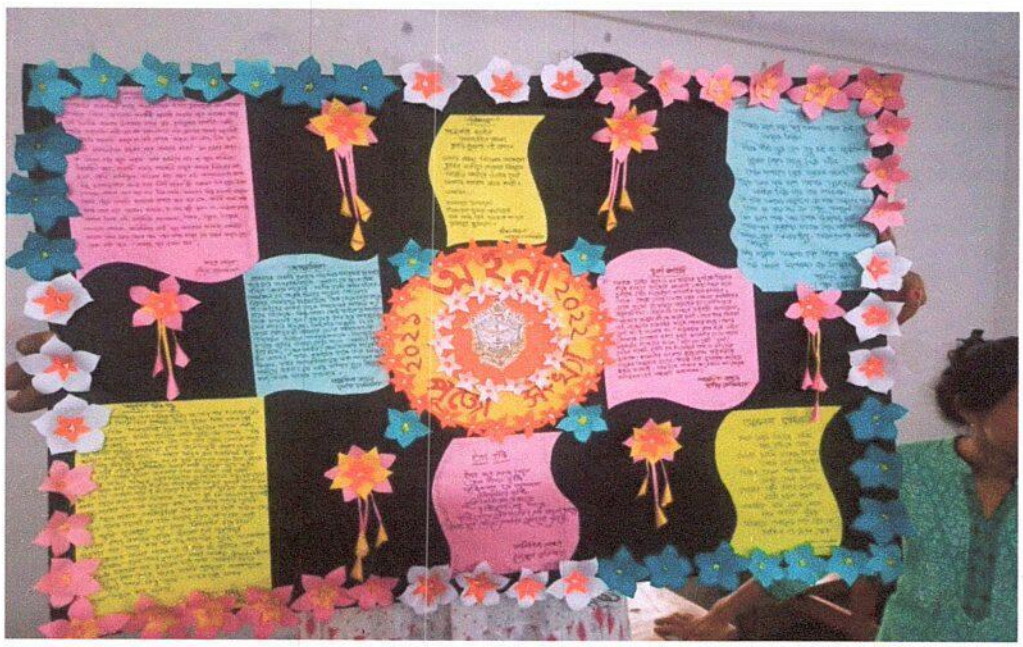
Wall magazines and Poster Presentation

Poster presentation and Wall Magazines offers the students an excellent platform to develop presentation skills, enhance communication skills, foster research understanding, and to showcase their work to a broader audience. Moreover, poster presentation cultivates design and organizational abilities, contributing to a well-rounded educational experience.

DEPARTMENT OF BENGALI





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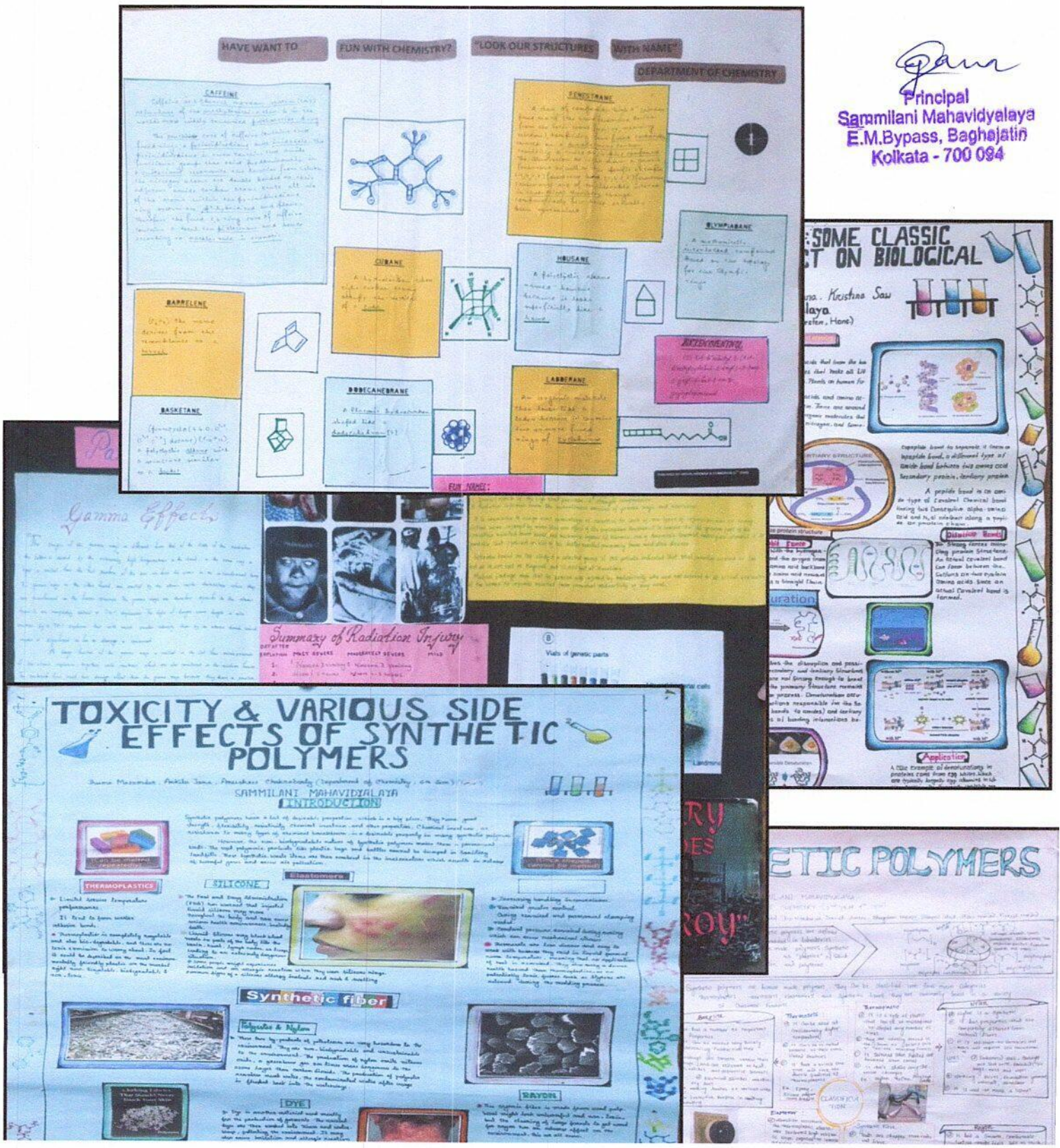
Department of Chemistry

Wall magazine and Poster presentation (2018-2020)



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(2022-2023)

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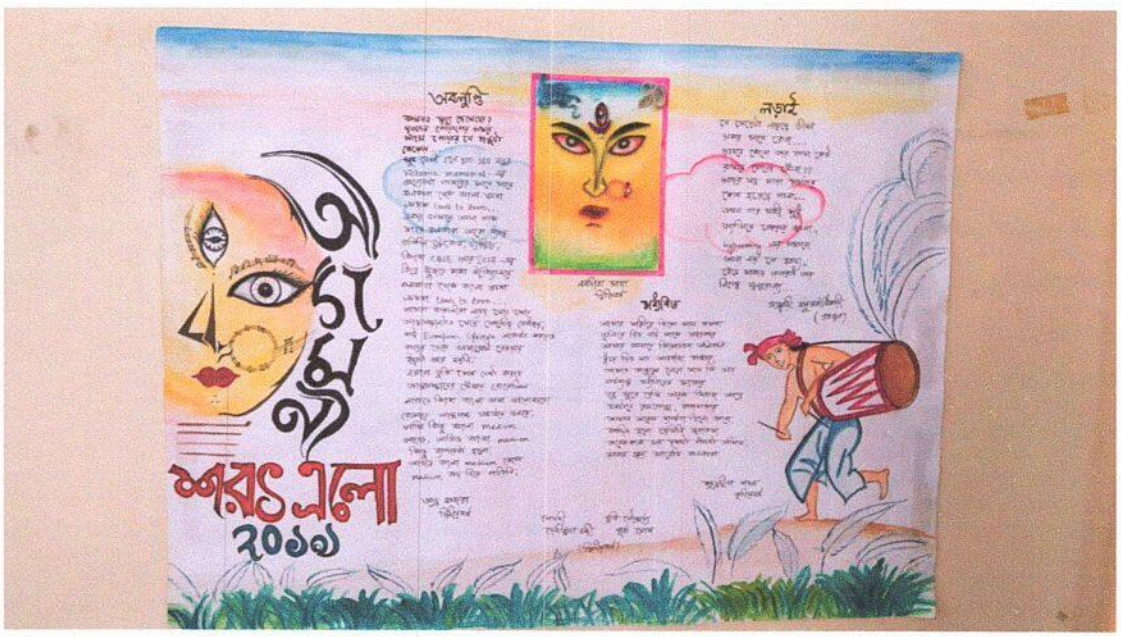
DEPT. OF COMPUTER SCIENCE

1. **Wall Magazines**

   a. **Wall Magazine Designed by Semester-V in 2018-19**

   b. **Wall Magazine Designed by Semester-V in 2019-20**



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c. Wall Magazine Designed by Semester-V in 2021-22

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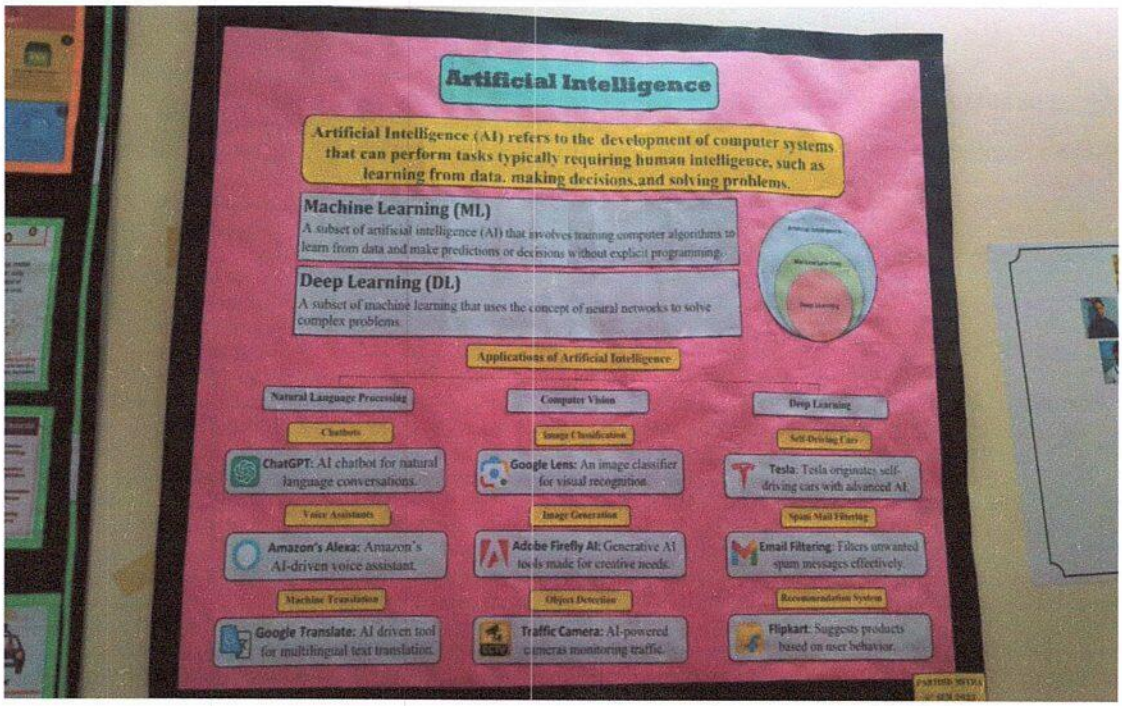
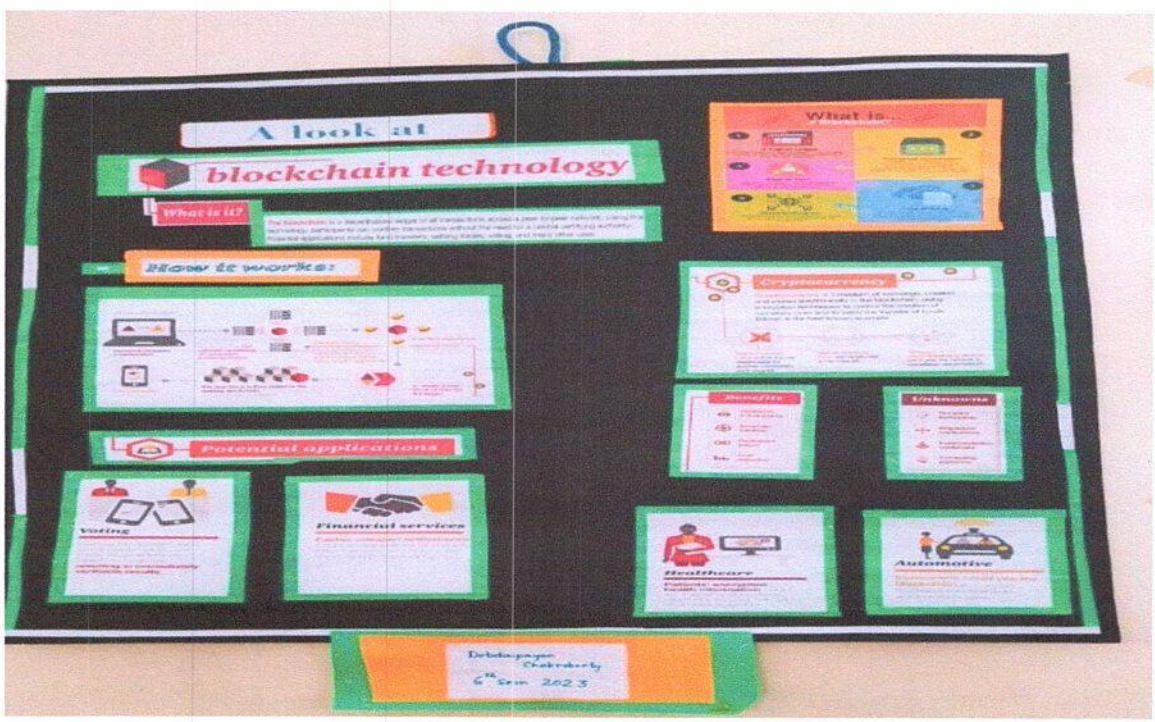
d. Wall Magazine Designed by Semester-V in 2022-23



e. Wall Magazine Designed by Semester-V in 2022-23



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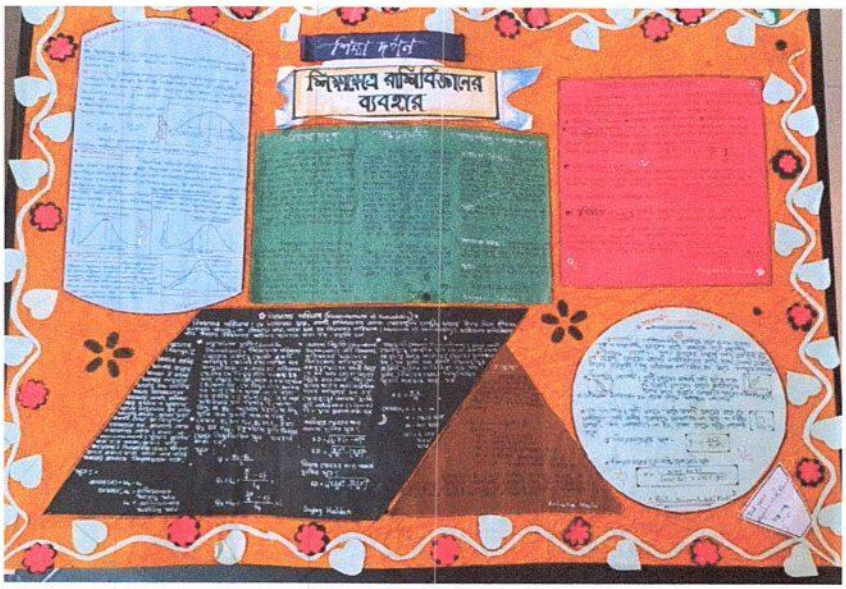
DEPARTMENT OF EDUCATION

Academic session 2018-19

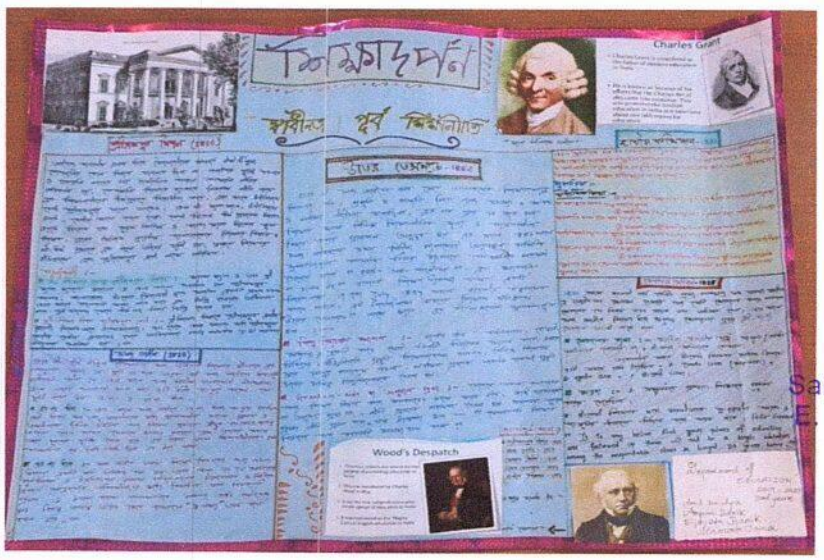
The Department of Education Publish wall magazine in the name of "SKIKSHA DARPAN" e very year. In 2018-2019,the 3rd year students led by **Rinku Naskar, Antara mali, Sujay Halder, Satyajit Jalani** and others made a wall magazine on "**Uses of statistics in Education** " titled "শিক্ষা ক্ষেত্রে রাশিবিজ্ঞান এর ব্যবহার



Published on Dec 2018 (3rd year Students)

Academic Session 2019-2020

Topic: Educational Policy in the Pre Independent period: Published on Dec, 2019 (3rd year students)



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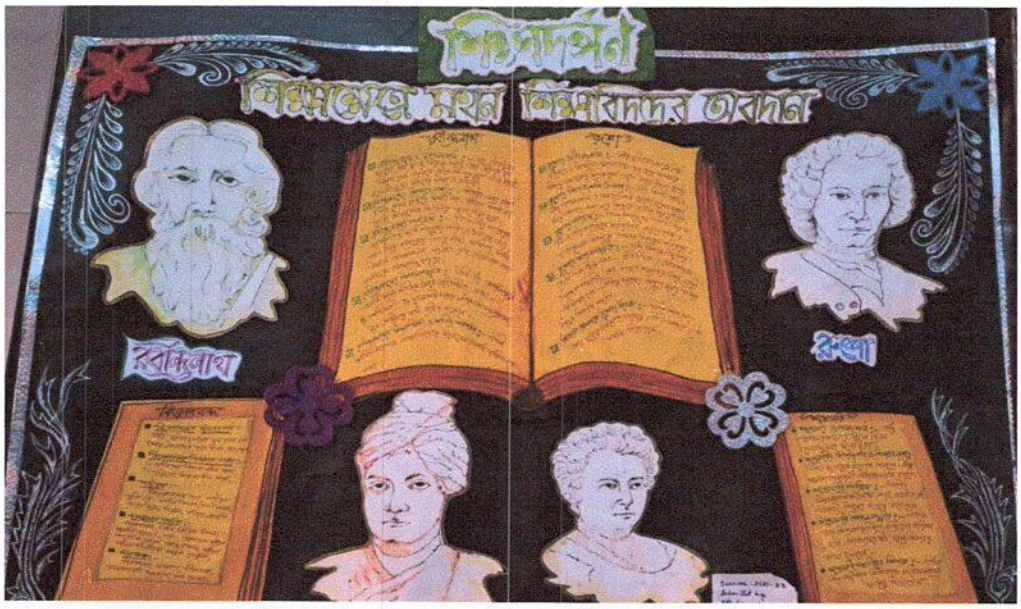
Academic Session 2021-22

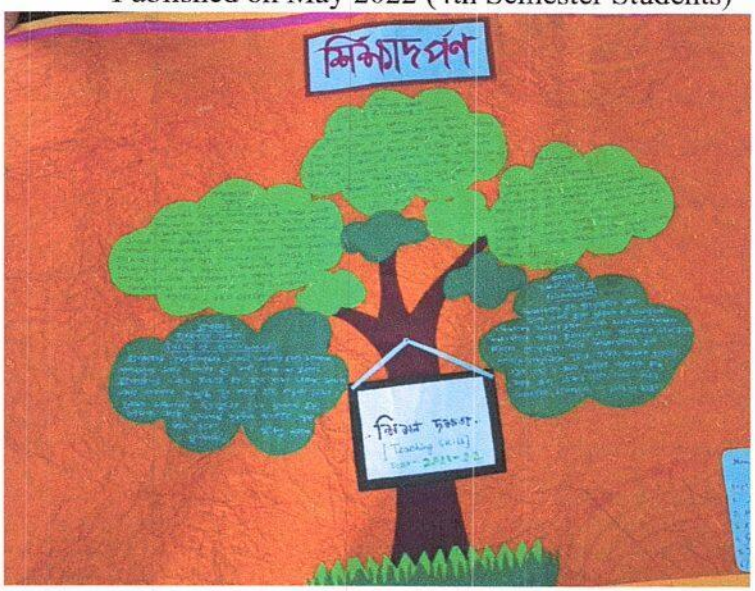
Due to covid outburst our next wall magazine was published on December 2021, as college finally opened during November 2021.

Publishes on Dec, 2021 (6th Semester students



4. After we got introduced to CBCS system a new paper named TEACHING SKILL was introduced in the course and the students of 4th semester prepared a wall magazine on Teaching Skills.

Published on May 2022 (4th Semester Students)



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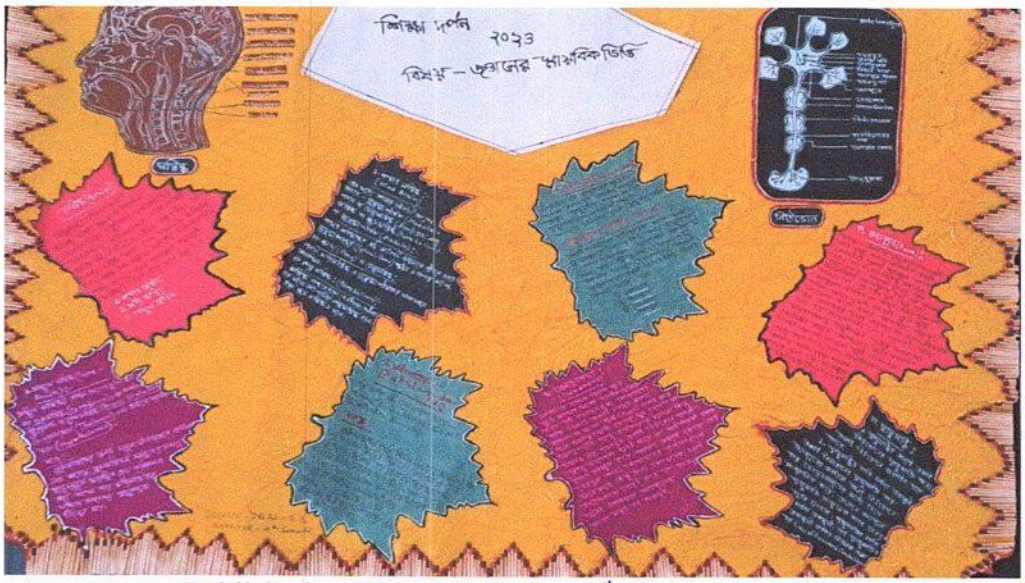
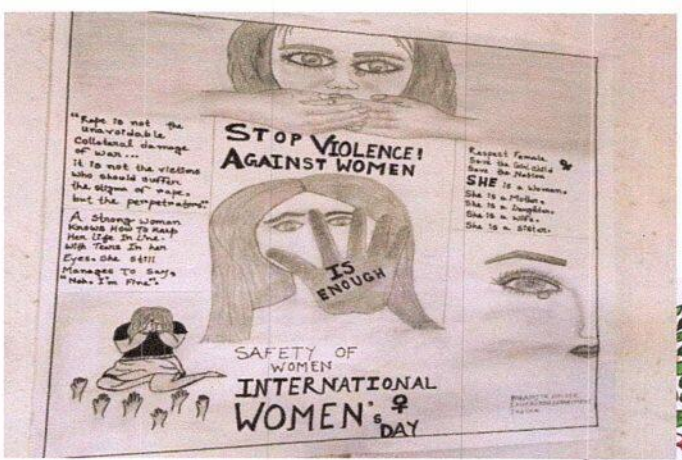
Academic Session 2022-23

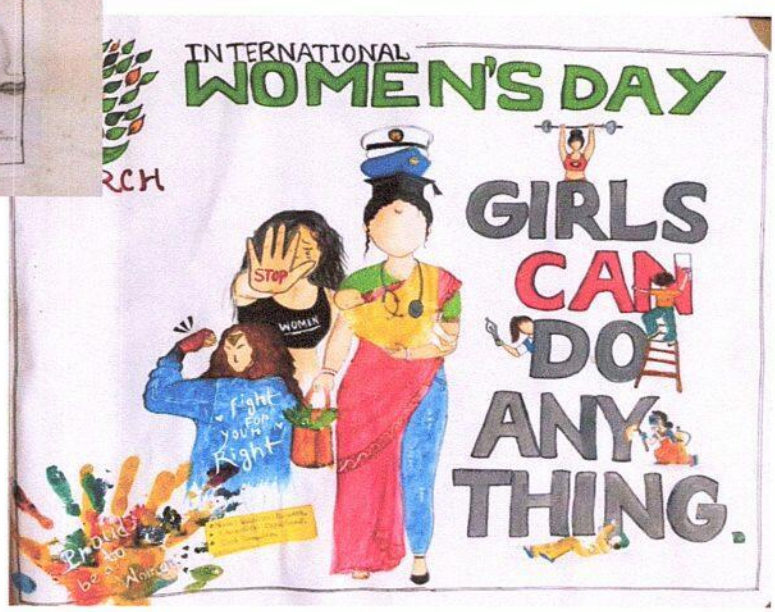
• Neurons: Axon and Dendron



Published on November 2022 (6th Semester)

Posters
Academic Session 2022-23





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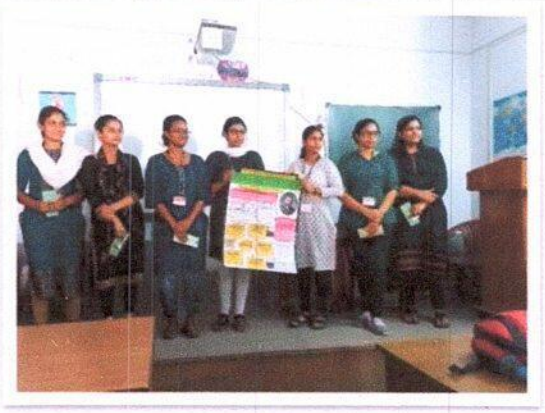
DEPT. OF GEOGRAPHY

Poster Presentation:

The Undergraduate curriculum of Geography Honours (CBCS) includes a practical module (CC13) on Poster presentation. This is basically a group activity and the students have to prepare poster on any one of the schools of Geographical thought and have to present the same before the examiners during examination. To make the students well conversant with the entire process, since 2022 (post covid) the department of geography organizes an intra-departmental Poster presentation competition for the students of semester 5. The students participate in the event enthusiastically. To encourage and motivate the students, prizes are also awarded to the winning team.

Name of the Programme	Session	Date	Participants	Venue	Topic of the poster of winning Team
Poster Presentation on Different Schools of Geographical Thoughts	2022-23	11.04.2023	All the students of fifth semester (GEOA)	Smart class room (Lab 3)	The team presenting 'The thought of Vidal De la Blache' secured the first position
	2021-22	17.05.2022	All the students of fifth semester (GEOA)	Smart class room (Lab 3)	The team presenting 'German School of Thought secured the first position



The winning team, 2023

The winning team, 2022

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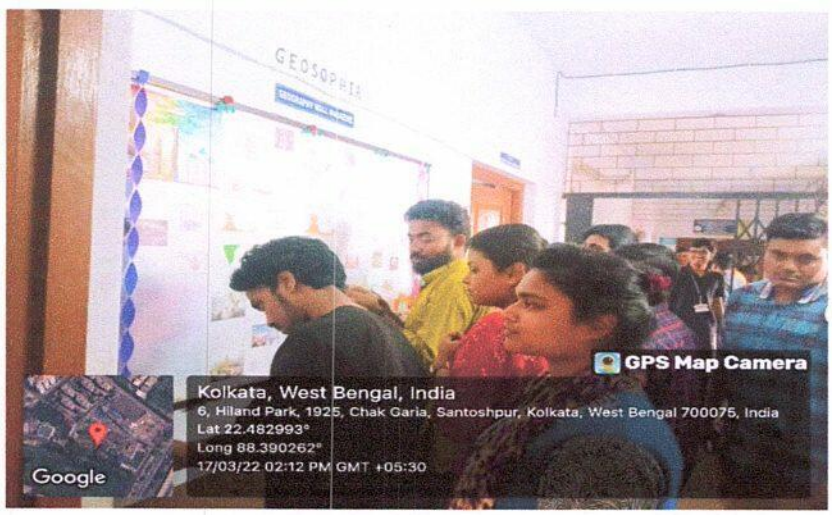
The winning team receiving prize from the Head of the Department, 2023

Wall Magazine:

The students of the Department of Geography have been publishing departmental wall magazine 'Geosophia' since 2008. The only exceptions were the two pandemic years i.e 2020 and 2021. It is an annual publication to exhibit the creativity of the students as well as of the faculties. The magazine provides opportunity to the students to express their ideas, to grow literary taste, to enhance reading habit and to develop awareness about different pressing issues both related to geography and not. Actually, this 'Geosophia' acts as an excellent window for participative learning outside the class room. The latest issue of the wall magazine was published on 23.03.2023.



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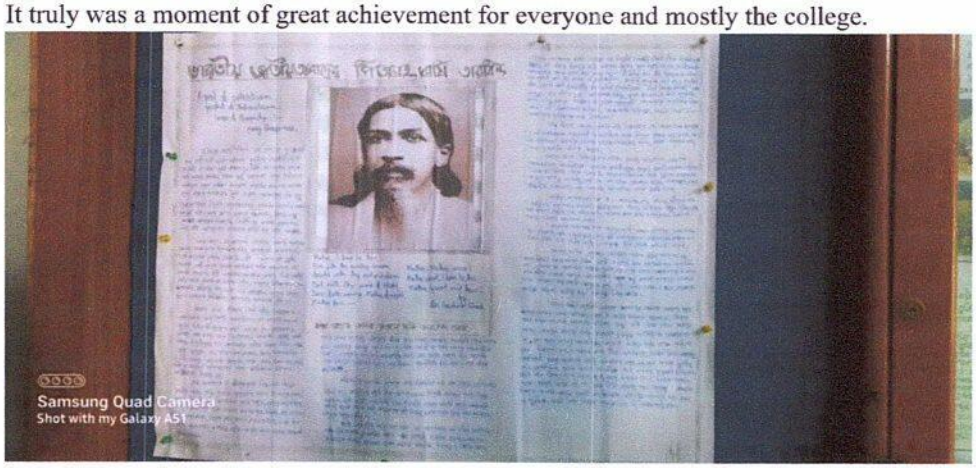
DEPT. OF HISTORY

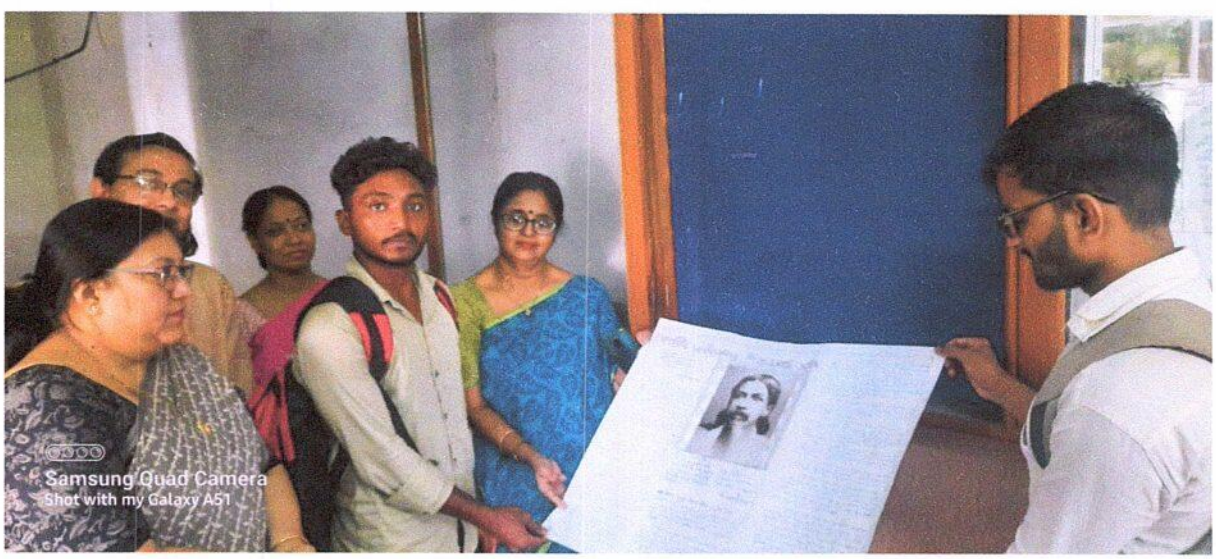
On the 13th of August 2022 all the Teachers and students of the Department of History of Sammilani Mahavidyalaya along with the TIC Dr. Sharmila Chakraborty inaugurated the Departmental Wall Magazine regarding Sri Aurobindo's 150th Birth Anniversary.

A 5th Sem ex-student Tanmoy Mondal designed this wall magazine along with other students. The wall magazine depicted Sri Aurobindo's early life, his activities on Indian soil towards the freedom struggle, the infamous Alipore bombing case and his life after denouncement from the freedom struggle. How he led an ascetic life in Pondicherry. It was a commendable effort taken by the Department of History of Sammilani Mahavidyalaya, whereby the emphasis was on the life teachings and philosophy of Sri Aurobindo who was not only a great freedom fighter but also a Yogi who preached to the world how one should transform one's life. It was a highly enthralling process by which one could learn about the teachings and philosophies of Sri Aurobindo through this wall magazine.

The 15th of August his Birthday being a holiday, the magazine was inaugurated on the 13th of August.

It truly was a moment of great achievement for everyone and mostly the college.





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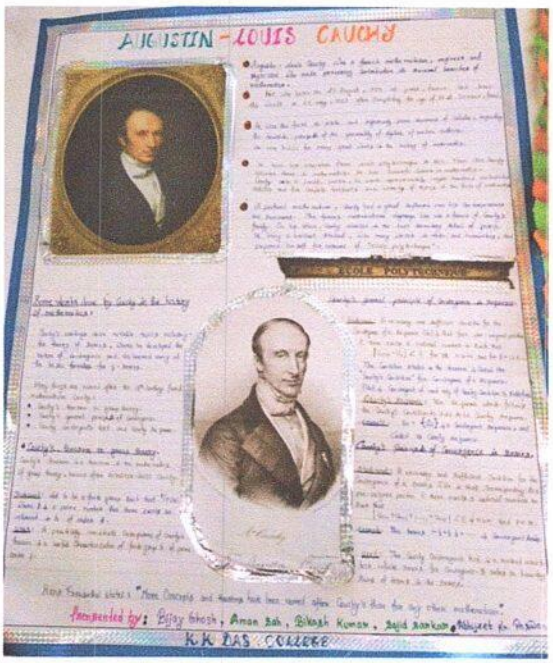
DEPT. OF MATHEMATICS

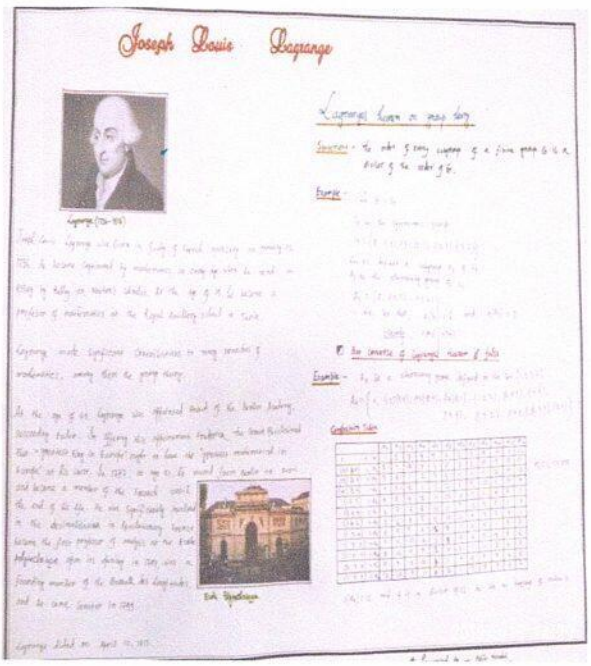
POSTERS

Academic Session 2018-19

Date	Topic	Students
15.03.2019 (FRIDAY)	Life and works of Cauchy & Lagrange	MTMA, 1st year

Photo by our Students and Students of K.K. Das College:





Academic Session 2022-23

Date	Topic	Students
22.12.2022 (FRIDAY)	The man who knows infinity	Subham Mondal (Sem-V, MTMA)
22.12.2022 (FRIDAY)	Brahmagupta	Rajesh Sardar Sumana Giri (Sem-III, MTMA)

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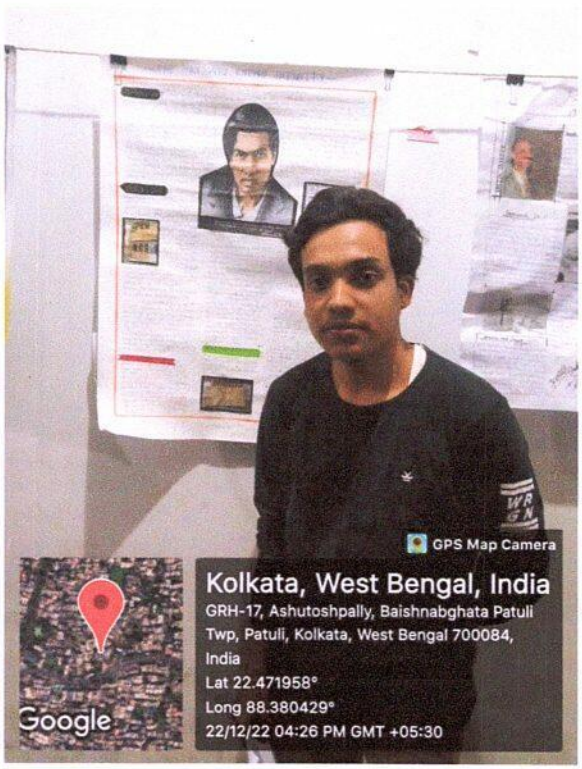

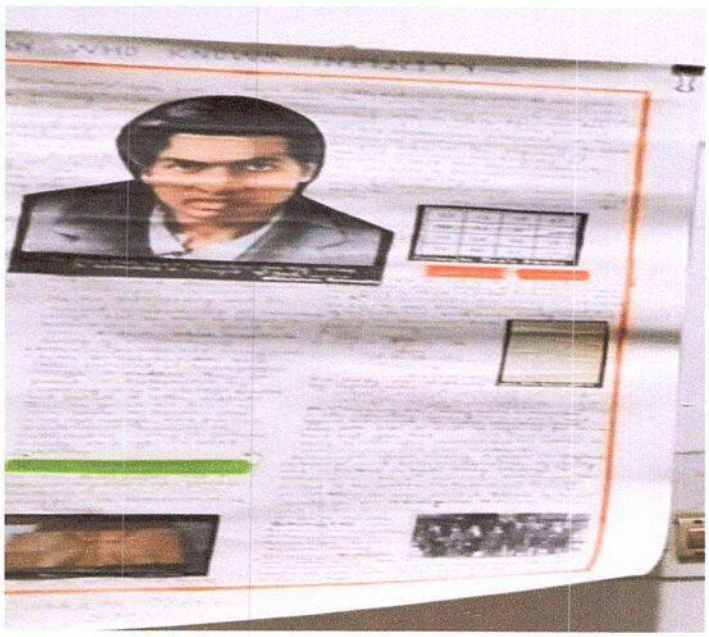

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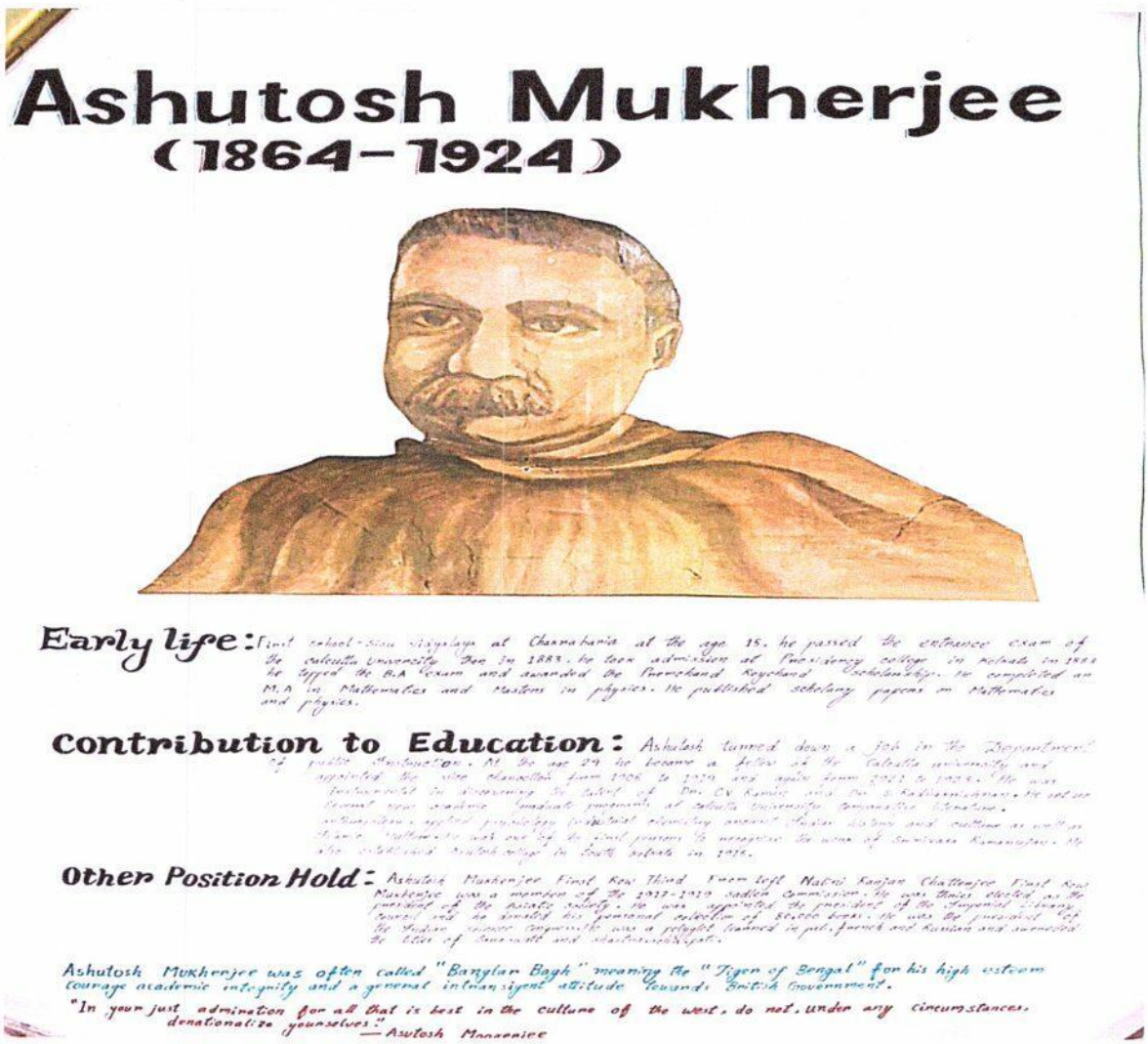
WALL MAGAZINES

Academic Session 2018-19

Topic	Students
Life and works Ashutosh Mukherjee	MTMA, 1st year
Fibonacci Numbers	MTMA, 2nd year



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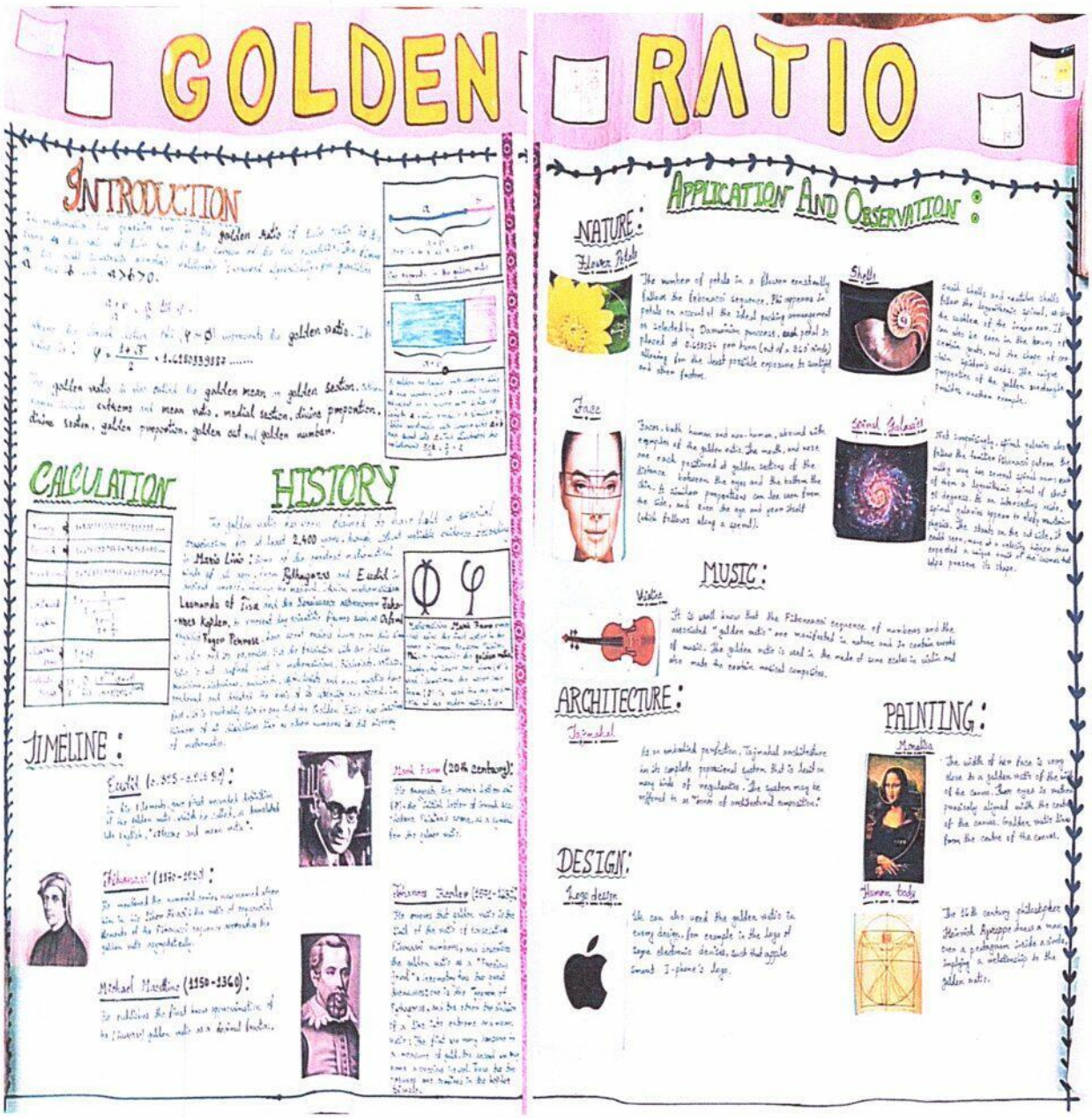
Academic Session 2019-20

Topic	Students
Golden Ratio	MTMA, 1st year
Life and works of Ramanujan & P. C. Mahalanobis	MTMA, 2nd year



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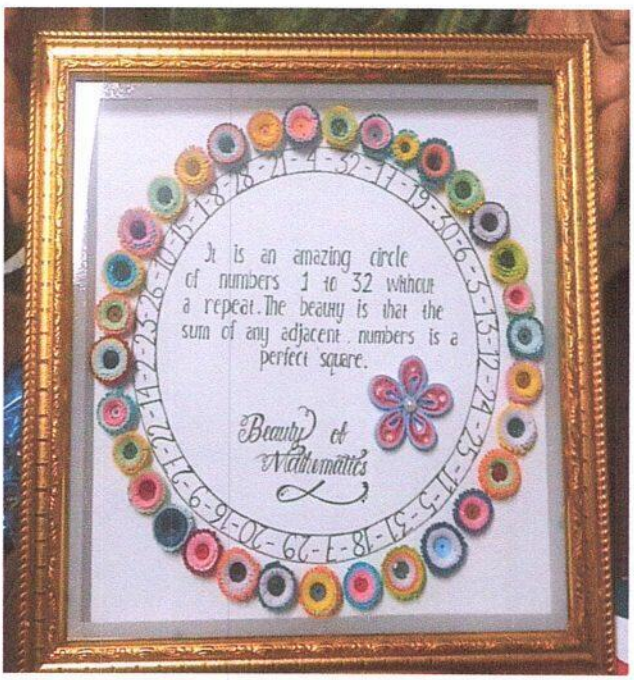
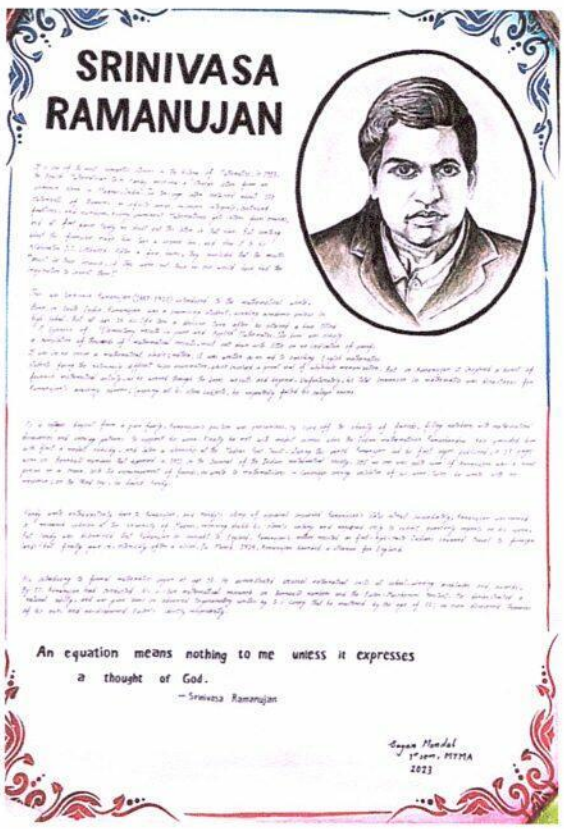
Academic Session 2020-21

Topic	Students
Amazing Number	MTMA, 3rd year
Life and works of Ramanujan	MTMA, 2nd year





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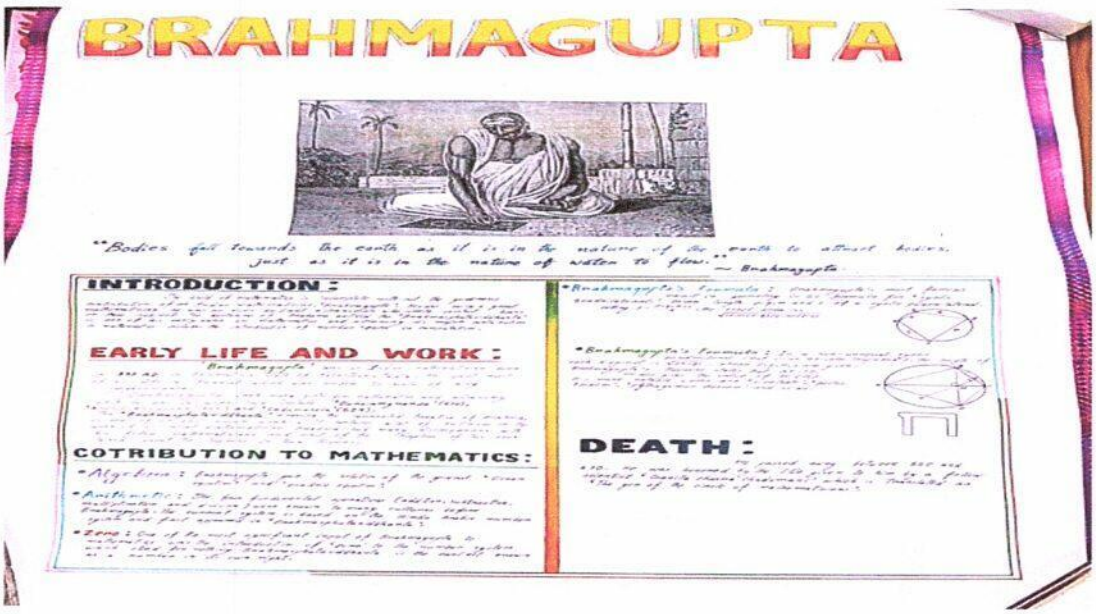
Academic Session 2022-23

Topic	Students
BRAHMAGUPTA	MTMA, 1st year



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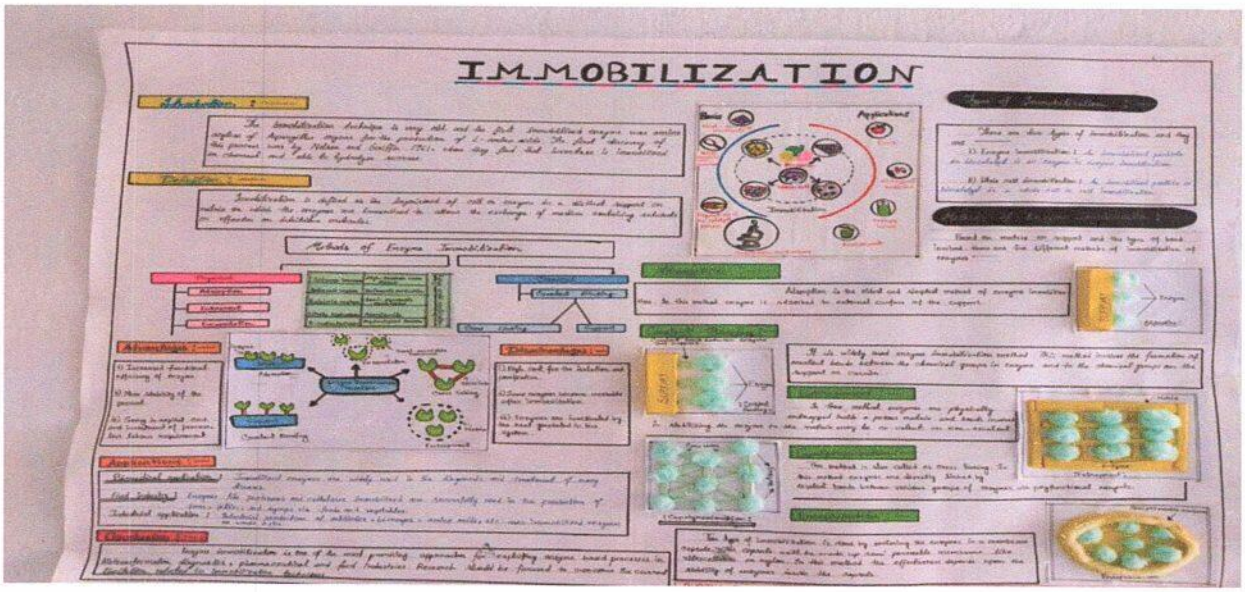
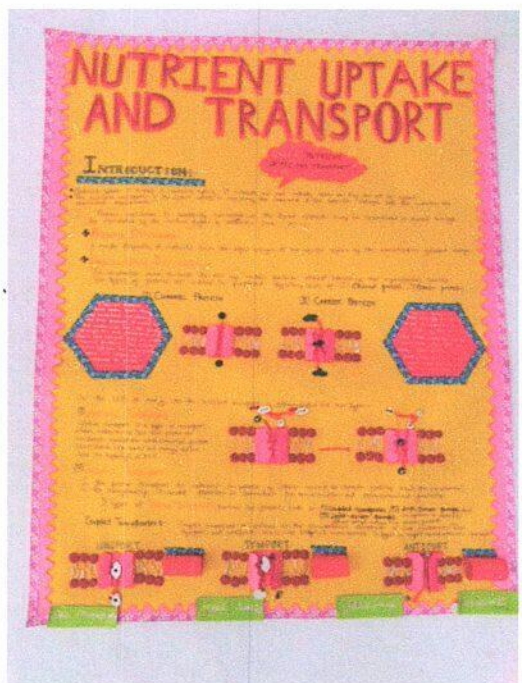
DEPARTMENT OF MICROBIOLOGY

WALL MAGAZINES

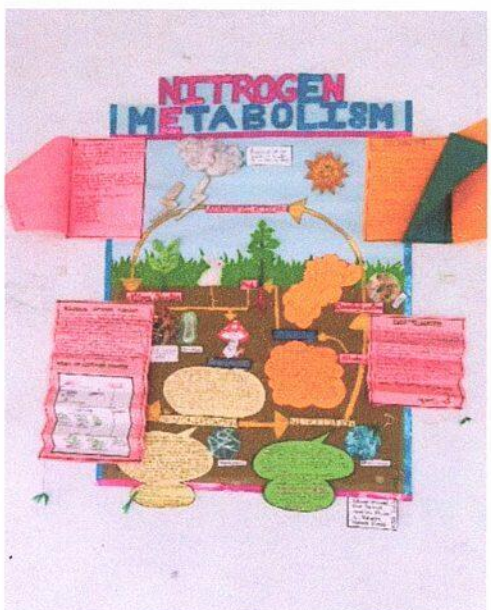
2022-23



PARTICIPATION: SEMESTER 6 STUDENTS



PARTICIPATION: SEMESTER 4



PARTICIPATION: SEMESTER 2

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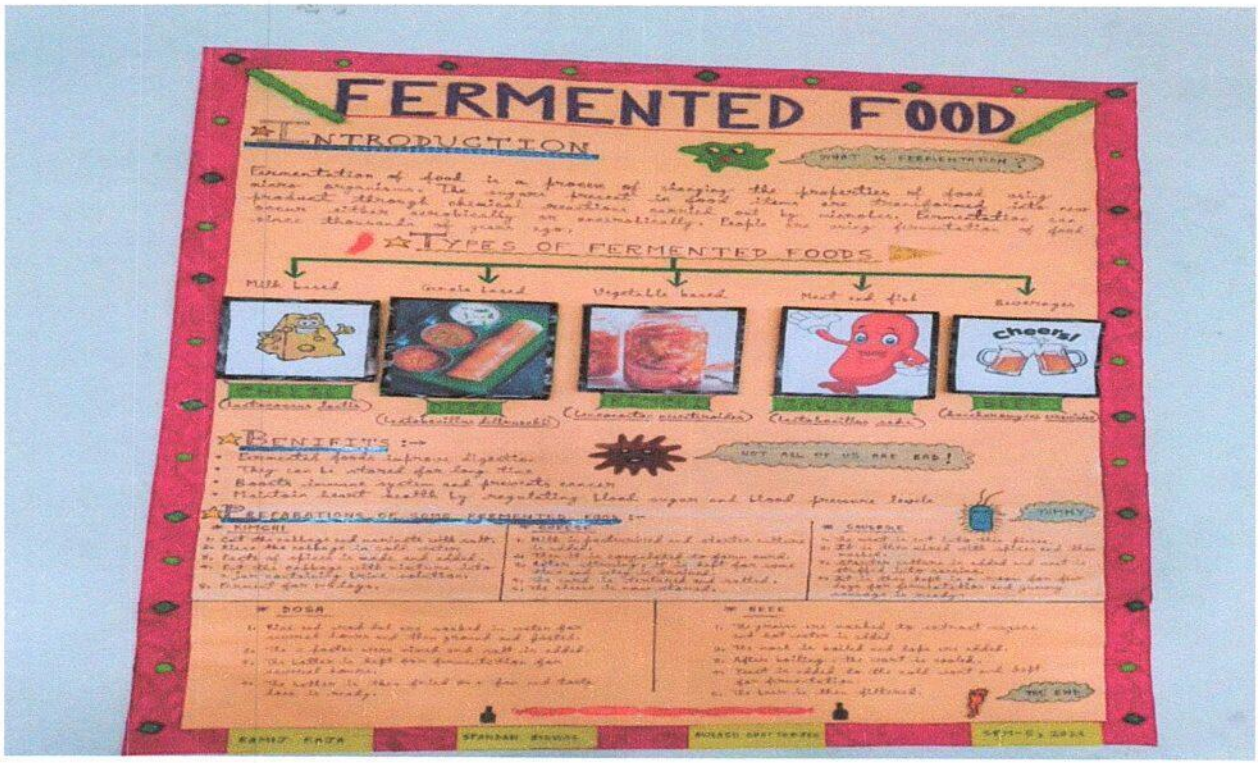
2018-19



PARTICIPATION: SEMESTER 1 STUDENTS

PARTICIPATION: Part III STUDENT

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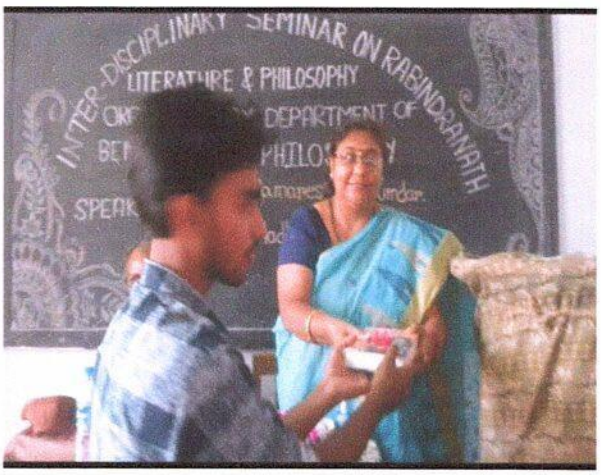
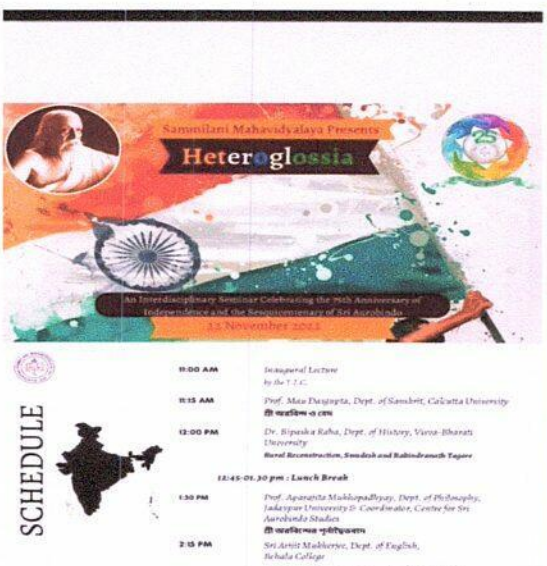
DEPT. OF PHILOSOPHY

- **Participative learning**
- Students Participated in the ICPR sponsored seminar 2019.
- Participated in 'World Philosophy Day' program.2022.
- Participated in interdisciplinary seminar; 'HETEROGLOSIA' on 22.11.2022.
- Participated in publishing wall magazine every year.
- Poster presentation

Participation in Seminars



Participation in Inter-disciplinary Seminar



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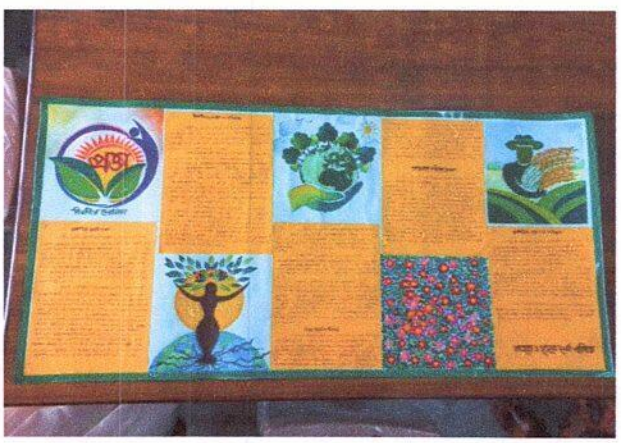
Observation of World Philosophy Day

Departmental Wall Magazine



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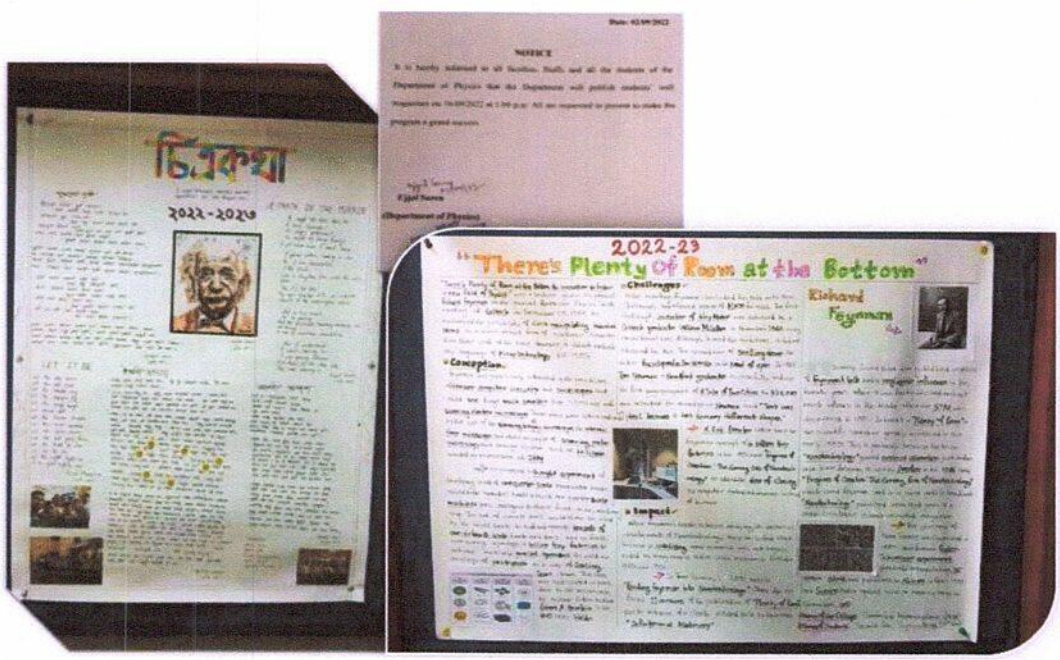
DEPT. OF PHYSICS

Report on Students' Wall Magazine Publication

Publication of Wall magazine by the students of the Department of Physics was held on September 16, 2022. Two separate wall magazines on two different theme was published. A group of five students of semster one and three together published 'Chitrakatha' based on the scientific thought, stories and pomes and a group of two students of semester five has published 'There's Planty of Room at the Bottom...' based on the tought of the famous scientist Richard P. Feynman describing the possibilities, developments of Nanoscience and Nanotechnology. he students of the department were classified into two groups.

The students had worked really hard and the faculty members gave immense support to bring out the writing skill of the students.

Their performance was very remarkable and worthy. The following are the pictures of the wall magazine.



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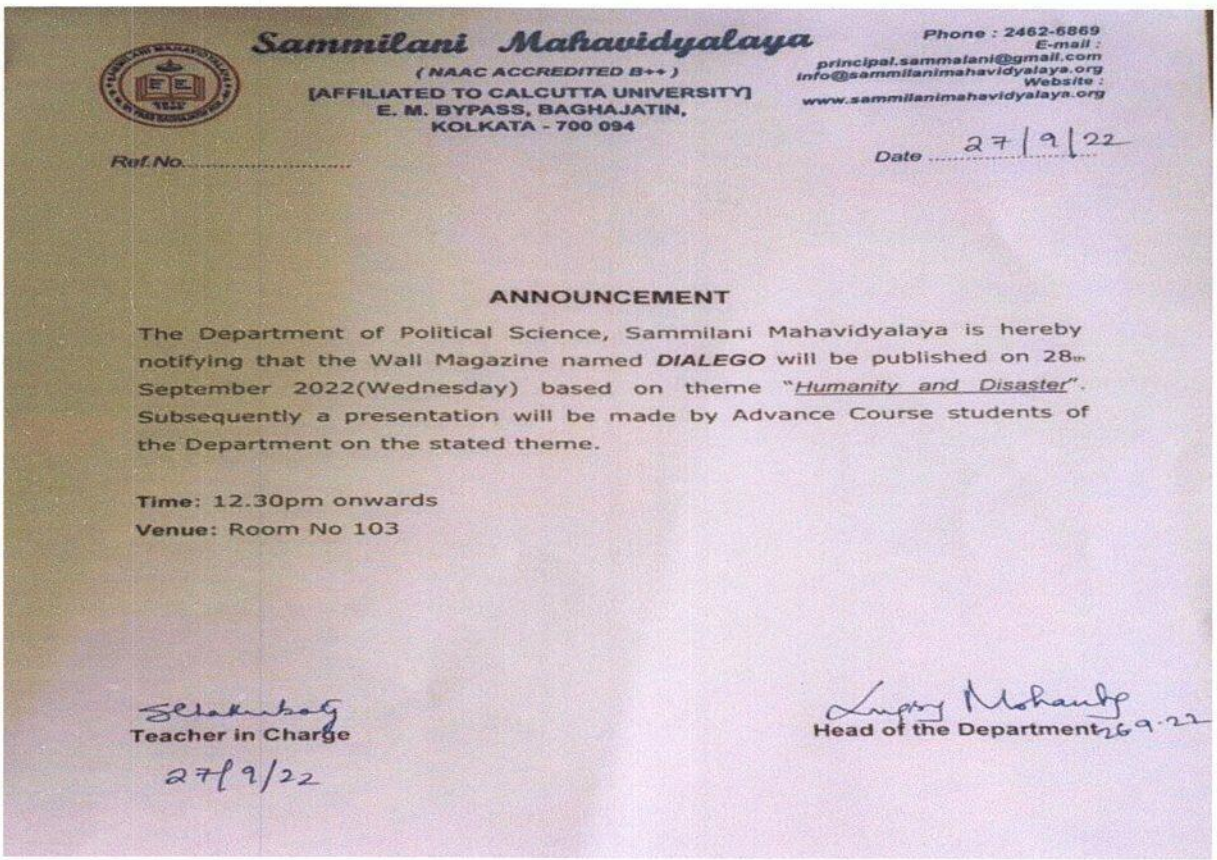
DEPT. OF POLITICAL SCIENCE

Publication of Wall Magazine "Dialego"

On the 28th of September 2022 a Departmental Seminar was organized by the Department of Political Science in Room No.103 from 12.30pm onwards.



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Ref. No. .....

Date 27/9/22

ANNOUNCEMENT

The Department of Political Science, Sammilani Mahavidyalaya is hereby notifying that the Wall Magazine named ***DIALEGO*** will be published on 28th September 2022(Wednesday) based on theme "*Humanity and Disaster*". Subsequently a presentation will be made by Advance Course students of the Department on the stated theme.

Time: 12.30pm onwards
Venue: Room No 103

Teacher in Charge
27/9/22

Head of the Department 27.9.22

First of all Sukanya Mukherjee, State Aided College Teacher (SACT) from the concerned Department invited the Teacher-In-Charge (TIC), Dr. Sharmila Chakraborty, Internal Quality Assurance Cell(IQAC) Co-ordinator, Dr. Srikanta Malakar, Superannuated Teacher, Smt. Kalpana Debnath, Assistant Librarian, Sri Ujjwal Patra to the dais. Then they were welcomed and felicitated by Advance Course students of Semester I, III and V.

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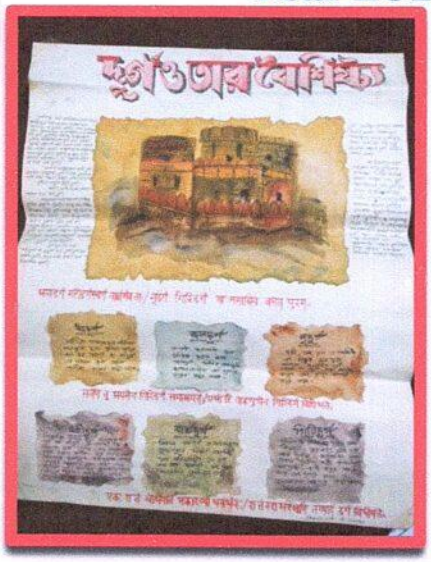
DEPT. OF SANSKRIT

Last five years Wall-Magazines of the Department of Sanskrit (2018-2023)

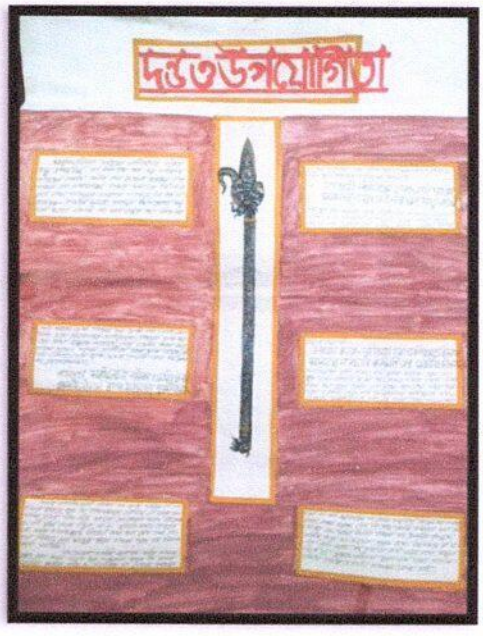
Name of the Wall-Magazine= Vivasvān

Year 2018-2019



Subject of the Magazine= Durga o tār vaiśiṣṭya (Forts and its Characteristics)
Related portion to the syllabus= (1+1+1 system) Part III, Paper VI, Course- I ,
Manusaṁhitā (chapter 7)

Year 2019-2020



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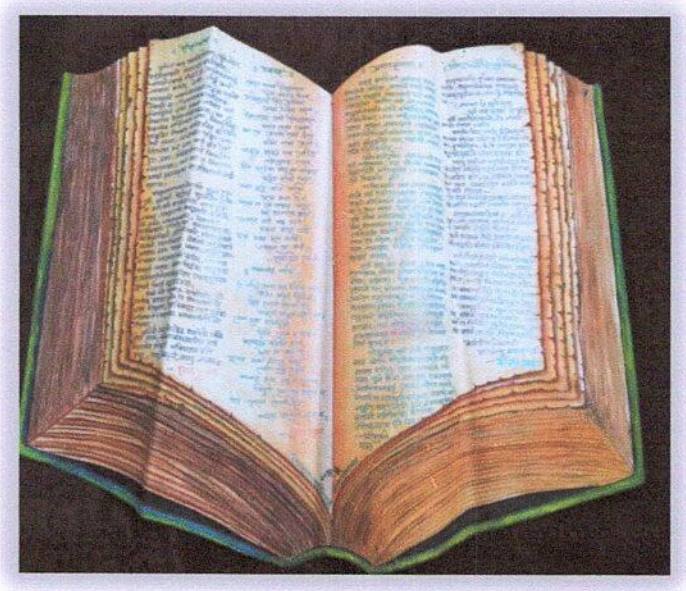
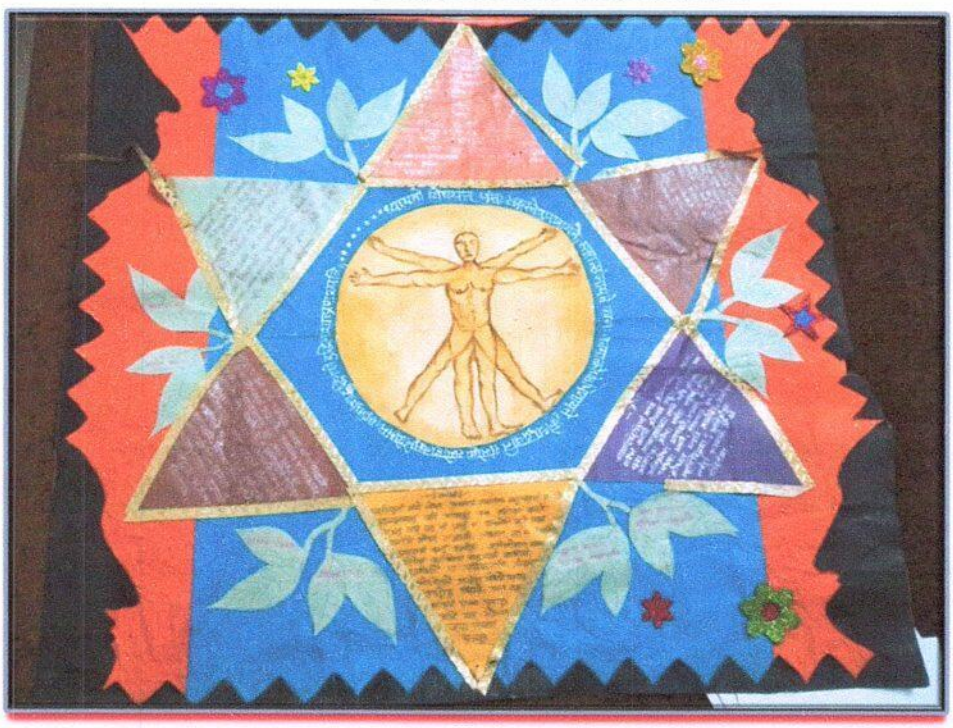
Subject of the Magazine= Daṇḍa o upayogitā (Ancient civil code and its application)
Related portion to the syllabus= (1+1+1+) Part=III, paper=VI, cour

Year 2020-2021



Subject of the magazine= Sanskrit language and its modern application
Related portion to the syllabus= (CBCS Semester-4, SEC-B-1) Spoken Sanskrit and Computer

Year 2021-2022



Subject of the Magazine= Saḍguṇa or The six enemies of Human mind
Related portion to the syllabus= Self-management of the Gītā (CC4)

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Year = 2022-2023

Subject of the Magazine= Yogasthaḥ kuru karmāṇi

Related portion to the syllabus= CC-4 (Self-Management in the Gītā) & SEC-B-2 (Yogasutra of Patanjali)

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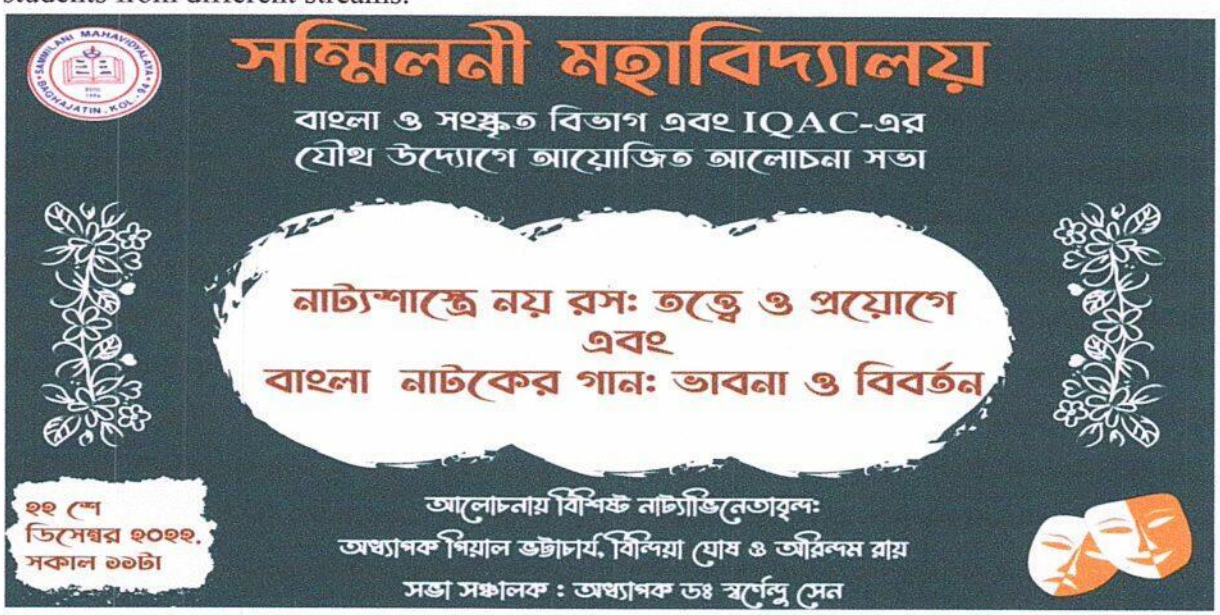
Quiz, Students' Seminar, Departmental Exhibitions

Interdisciplinary Seminar of Departments of Bengali and Sanskrit

On the 22nd of December 2022 at 11a.m, the Department of Bengali and Sanskrit in collaboration with the Internal Quality Assurance Cell (IQAC) organized an interdisciplinary departmental seminar titled "**নাট্যশাস্ত্রে নয় রস: তত্ত্বে ও প্রযোগে এবং বাংলা নাটকের গান: ভাবনা ও বিবর্তন**" (*Nāṭyaśāstrē naẏa rasa: Tāttbē ō prayōga ēbaṁ bānlā nāṭakēra gāna: Bhābanā ō bibartana*) within the institution premise.

First of all there was lighting of lamp then Sri. Dibyendu Sarkar, State Aided College Teacher (SACT), Department of Bengali requested the invited guests to the dais. The Head of the respective Departments namely Dr. Ruma Chakrabarti, Associate Professor, Bengali and Smt. Sudeshna Basu, Assistant Professor, Sanskrit and Smt. Banani Gangopadhyay, Associate Professor, History felicitated the honorable guests for the day. Inaugural song was sung by Smt. Panchali Mukherjee, State Aided College Teacher (SACT), Department of Bengali. Then the respective Departmental Heads were requested to share a few words with the participants. The entire event was inaugurated by Prof. Swarnendu Sen.
The deliberations were delivered by the esteemed speakers namely Prof. Piyal Bhattacharyya, renowned actress Bindia Ghosh and Sri. Arindam Roy. There were around 200 participants including staff and students from different streams.



The **Session I** began with discourse on ***Nātyasāstra and Navarasas.*** *Rasas* is an anchor to the performing arts and *natya* had its genesis from Bharat Muni. It is the *Rasa* that helps to delve deep into the nine forms of emotion---*Hasya Rasa, Raudra Rasa, Bibhatsa Rasa, Bhayanaka Rasa, Vira Rasa, Sringara Rasa, Karuna Rasa, Adbhuta Rasa and Shanta Rasa*. *Nava* means nine, and *rasa* literally means 'essence', *Nātyasāstra* helps in demonstrating each of the *rasa*. The word '*rasa'* appears in ancient Vedic literature. In Rigveda, it connotes a liquid, an extract and flavour. It adds spice to life; each *rasa* is associated with colour and presiding deity by *Nātyasāstra. Rasas* basically originate from *Bhava,* ones state of mind. It is fundamental to many forms of Indian Art like dance, music, painting, sculpture, theatre, literature but its interpretation and implementation varies between different schools and its styles. In classical Indian

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Dance it is known as *Rasa-abhinaya*, one can comprehend the emotion by seeing gestures, postures/ *mudras* and facial expressions. The first part was brilliantly narrated both focus was given on theoretical aspect and practical form.

The second part which dealt with 'Music in Bengali Drama' its expression and evolution started with discussion that Music took its course from bygone era to modern age. Sri Arindam Roy tried to narrate the evolutionary part and journey by singing songs. In 1852 public theatre was established and drama created by Jogendra Gupta, Ramnarayan Tarkalankar etc was acclaimed. In 1872 National Theatre was found. Girishchandra Ghosh wrote plays like *Anande Raho*(1882) and Griha Luxmi(1909) which won heart of Bengali people. Last but not the least all the participants were enthralled by the deliberation, music and narration.

Quiz Competition of Department of Chemistry

Sammilani Mahavidyalaya

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Ref.No.....

Date 2/1/23

NOTICE

To observe Students' Week as per Government order with reference to Memo No. 238-SSE/2022 dated 27/12/2022, all Departmental Heads are hereby notified to arrange for Departmental Students' Seminar and Quiz on 06.01.2023 and Departmental Parent Teacher meeting on 07/01/2023 as per schedule given in Notice dated 02.01.2023 for observation of Students' week.

Dr. Sharmila Chakraborty
(Teacher-in-Charge)
Teacher-In-Charge
Sammilani Mahavidyalay
E.M. Bypass, Baghajatin,
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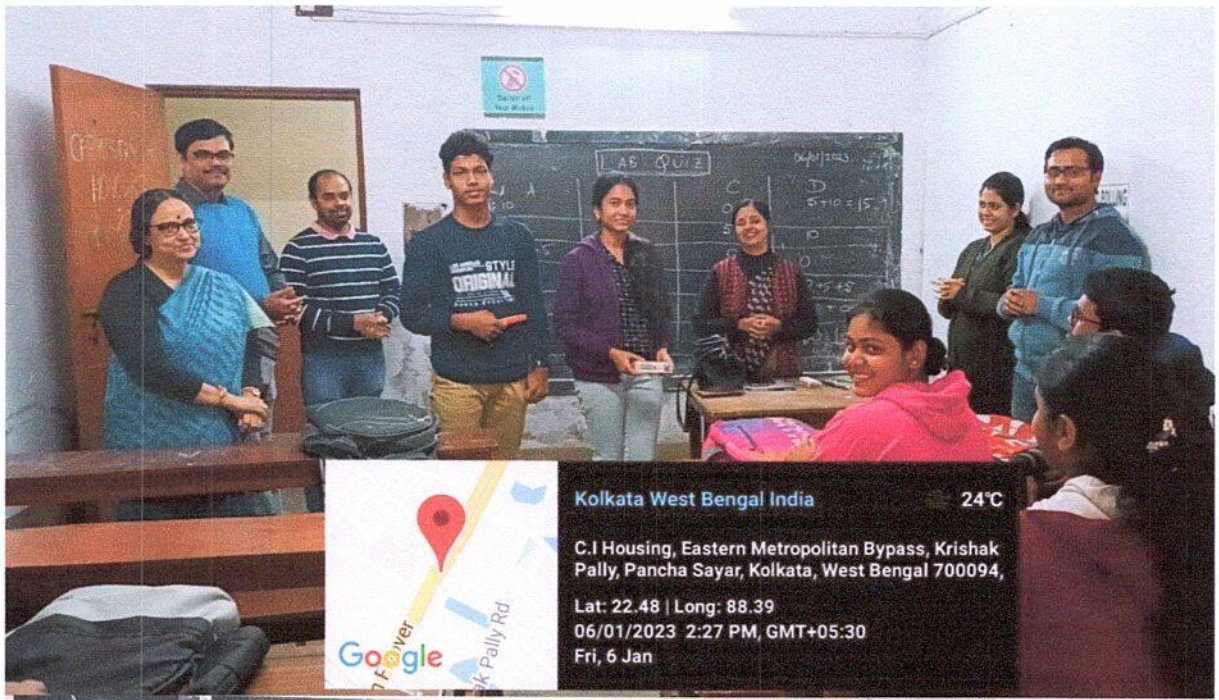

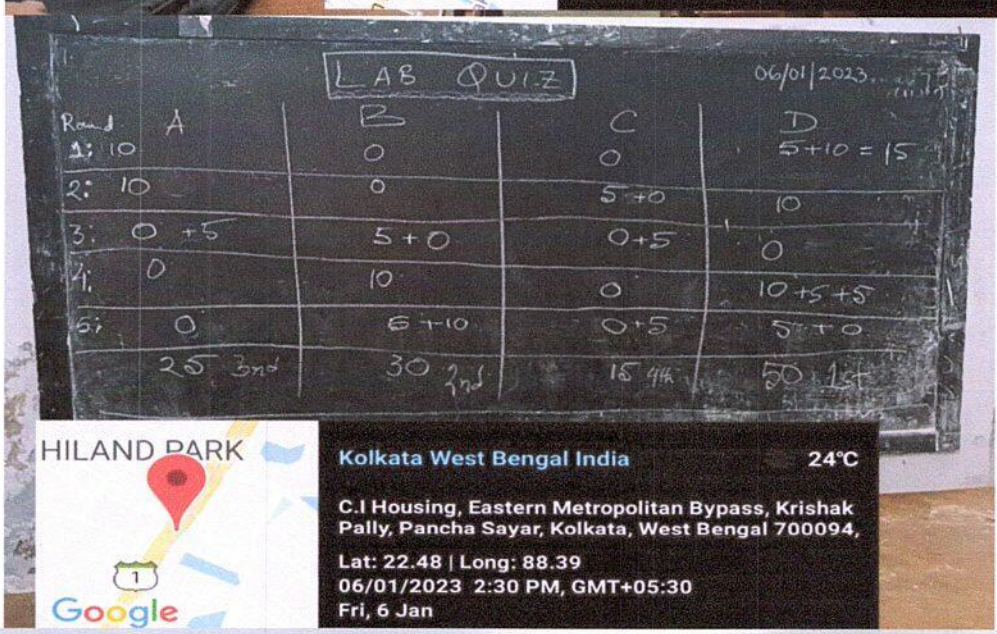

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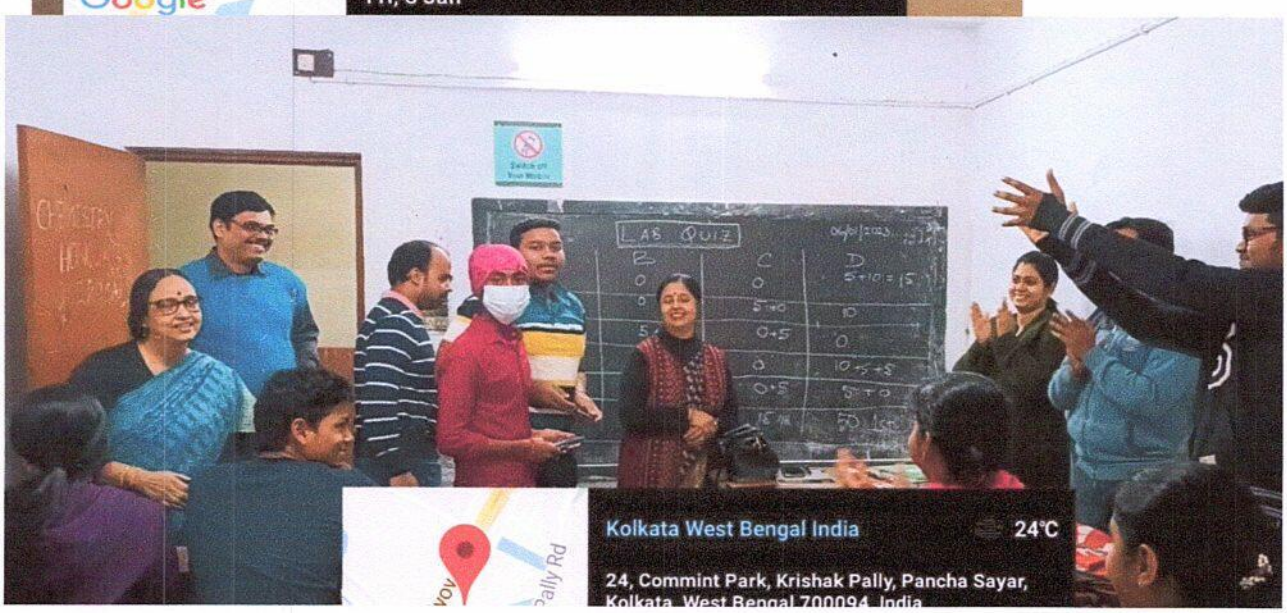
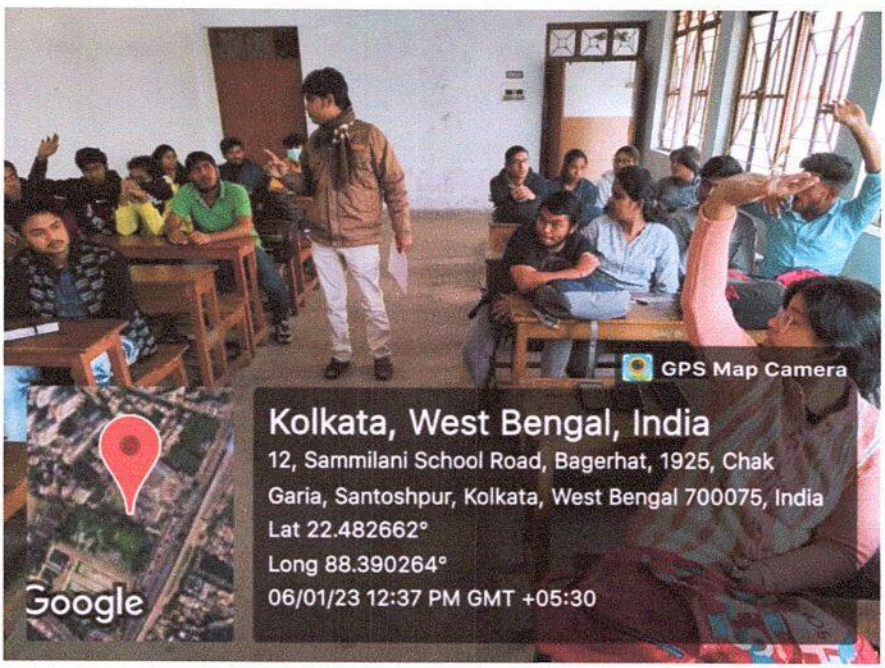


Quiz competition was organised on General Knowledge on Computer Science
Students participated: 49(Students of Semester –I and Semester-II)
Date: 06/01/2023.



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2. Workshop:

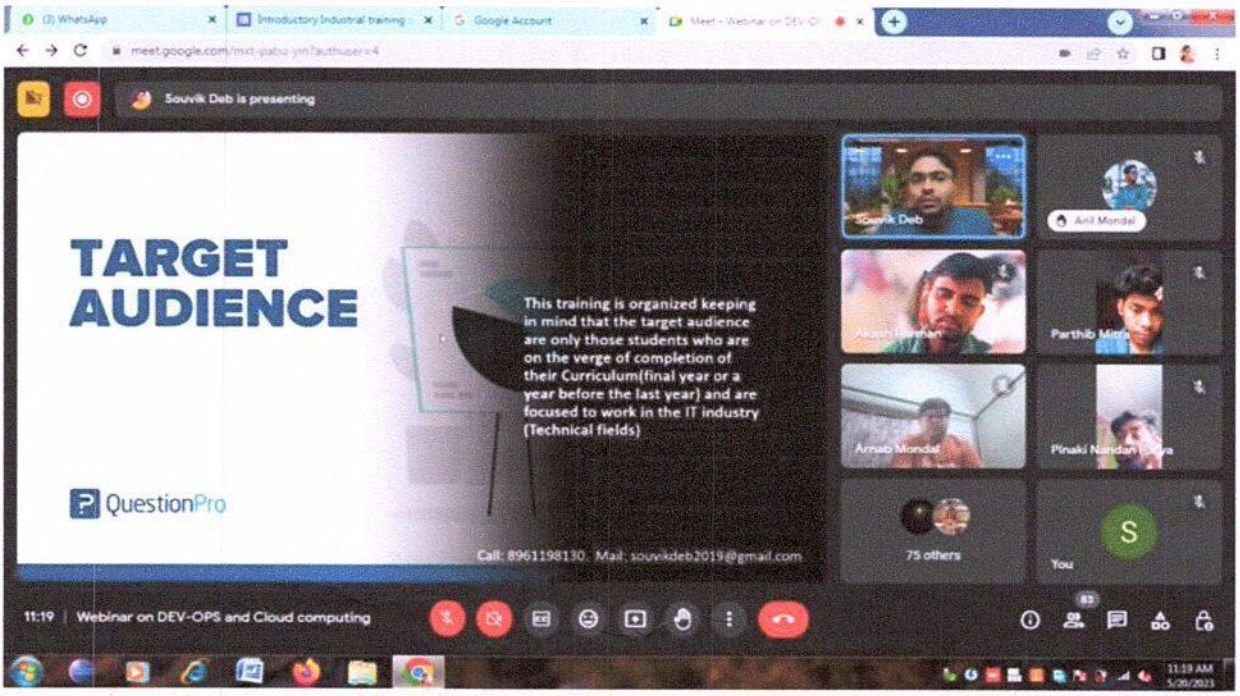
Title: One day workshop on "**Introductory Industrial training on DEV-OPS practices with basics of Cloud computing as practiced in Industry** ".

Speaker: Souvik Deb, **Associate Cloud engineer, INADEV.**

Mode: Online

Date: 20/05/2023

Number of Participants: 83 (Semester –II, Semester-IV and Semester-VI)



Students' Seminar of department of Computer Science

Date: 02/02/2023

Students participated: 27(Students of Semester –VI)

CU REGISTRATION NUMBER	NAME	Seminar Presentation Topic
513-1211-0360-20	Jayatri Mukherjee	
513-1214-0379-20	Prajna Ghosh	
513-1111-0273-20	Subhayan Chatterjee	Distributed and Parallel Computing
513-1111-0276-20	Parthib Mitra	
513-1111-0297-20	Dipanjan Giri	
513-1111-0315-20	Sk Manjarul Hossain	Blockchain Technology

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513-1111-0340-20	Rana Purkait	Cryptocurrency
513-1111-0363-20	Tanmoy Maity	
513-1111-0368-20	Dhiman Chakraborty	
513-1111-0401-20	Pinaki Nandan Parya	Internet of Things (IoT)
513-1111-0415-20	Rupchand Naiya	
513-1111-0425-20	Debdaipayan Chakraborty	
513-1111-0431-20	Rahul Mondal	Cyber crime and security
513-1111-0436-20	Sutirtha Maity	
513-1112-0266-20	Suprakash Purkait	
513-1112-0278-20	Alapan Das	Cryptography
513-1112-0365-20	Satyajit Mirdda	
513-1112-0381-20	Arnab Mandal	
513-1112-0402-20	Abhijit Sheet	Screenless Display
513-1112-0416-20	Rohan Mondal	
513-1112-0452-20	Sudip Naskar	
513-1114-0280-20	Debargha Nandi	Cloud computing and services
513-1114-0303-20	Anupam Rana	
513-1115-0263-20	Tasir Ahhamed Laskar	
513-1112-0886-20	Arnab Mondal	Virtual reality Technology
513-1112-0895-20	Sukdeb Naskar	
513-1113-0887-20	Ashish Mandi	

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Quiz Competition of Department of Geography

Quiz is a very effective method of participative learning, especially for the advanced learners. The department of Geography not only organizes such quiz contests involving the students of the department, but encourages them also to participate in the quiz contests organized by the other institutions. On 6th January, 2023, the department organized one such quiz competition involving the students of third and fifth semesters. Prof. Achintya Praamnik acted as the quiz master and five group of students participated in the event, of which a group of third semester secured the first position. On June 5th,2022, two of our students, Shuvo Barik and Mihir Baidya, participated in the quiz contest organized by West Bengal Pollution Control Board and received certificates of Participation.

Quiz competition organized by the Department of Geography on 6th January, 2023

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Certificates of Shuvo Barik and Mihir Baidya

West Bengal Pollution Control Board
Department of Environment, Govt. of West Bengal

Participation Certificate

This is to certify that Shri Subha Barik of Sammilani Mahavidyalaya participated in inter college quiz competition on the occasion of the World Environment Day held on 5th June, 2022 at the Science City Auditorium, Kolkata.
We wish him all success in future.

Dr. Rajesh Kumar, IPS
Member Secretary

Dr. Kalyan Rudra
Chairman

West Bengal Pollution Control Board
Department of Environment, Govt. of West Bengal

Participation Certificate

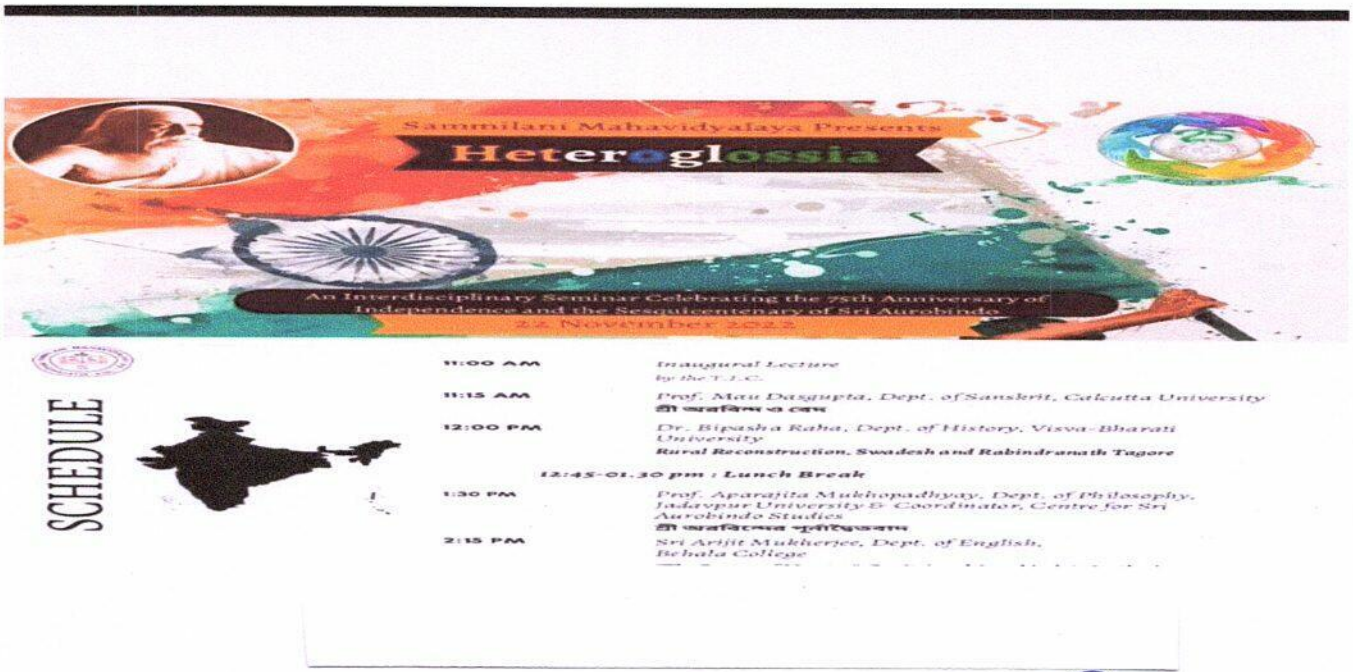
This is to certify that Shri Mihir Baidya of Sammilani Mahavidyalaya participated in inter college quiz competition on the occasion of the World Environment Day held on 5th June, 2022 at the Science City Auditorium, Kolkata.
We wish him all success in future.

Dr. Rajesh Kumar, IPS
Member Secretary

Dr. Kalyan Rudra
Chairman

Interdisciplinary Seminar of Departments of History, English, Philosophy and Sanskrit

In joint collaboration of the departments of English, History, Philosophy and Sanskrit a seminar was conducted the theme being Heteroglossia on the 22nd of November to celebrate 75 years of Independence and the 150th Birth Anniversary of Rishi Aurobindo. In this seminar Dr. Bipasha Raha, professor of History at Vishwa Bharati delivered an enthralling and highly informative lecture on "Rabindranath and Swadeshi" . She mainly focused on the concept that Rabindranath Tagore nurtured about Swadeshi Samaj. This concept was formed due to his anger and agony over the Government's decision to split Bengal in two parts. He proposed there should be a self-help based reorganisation of rural Bengal instead of the proposed partition. According to Dr. Raha Tagore wanted to implement the principle of cooperation that existed in ancient Indian villages. Promotion of Swadeshi arts, gyms, dispensaries , Bengali medium schools, dispenstion of drinking water for the general public, all these basic amenities formed the blue print of Swadeshi Samaj. Following the idea of Mahatma Gandhi, Tagore believed in village reconstruction by absolute commitment to cultivation of love and neighbourliness, restraint and sacrifice, self-help and hard labour through atmashakti and not by modern technology. Tagore put emphasis on swadeshi melas, jatras, kirtans to organise the rural people keeping political issues out of the process of emancipation of the village. The poet called for a radical social programme against the divisive forces of caste, creed, poverty and alienation between the elite and the masses. Dr. Raha mentioned that Tagore was in search of newer art forms which were not a copied from the west. He believed in not a wholesale rejection of the west but a synthesis between east and west. Dr. Bipasha Raha concluded though Tagore was often misunderstood, his ideas had great influence on Gandhi and Nehru. Which is truly resulted in an enriching experience for those present.



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Departmental Seminars of Mathematics

One Day Seminar
On

AN EMERGENT AREA OF MATHEMATICS

Organized by

Department of Mathematics & IQAC,
Sammilani Mahavidyalaya, Baghajitin,
Kolkata - 700094

In Collaboration with

Department of Mathematics & IQAC,
K. K. Das College, Garia
Kolkata - 700084

Speaker: Prof. Kallol Paul
Department of Mathematics, Jadavpur University
Date: 10.05.2023 (Wednesday)
Time: 11:00 a.m.

Principal
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Kolkata - 700 094

Webinar

on

A Journey from Real to Abstract Analysis

Jointly Organized by Department of Mathematics & IQAC

of

K. K. Das College, Garia, Kolkata - 700084

&

Sammilani Mahavidyalaya

E.M. Bypass, Baghajatin, Kolkata – 700094

Speaker:

Dr. Ramkrishna Prasad Chakraborty,

PRINCIPAL, K. K. Das College, Garia, Kolkata - 84

Date: 29th May, 2022
(Sunday)
Time: 11:30 a.m.

Join via Google Meet Link: https://meet.google.com/pft-qvkd-qwt

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Departmental Quiz of Physics

The Department organize few Quiz Competitions among the students to increse their general knowledge on science and technology. Two quize competitions were organized on 23/09/2022 and on 06/01/2023. Quizes help student to gain a broad or specialized understanding of the subject. This is a fun learning methods which enhances general knowledge. Students can "think outside the box" or from diverse perspectives by participating in quiz competitions.

The following are the pictures taken on the day of quiz competititon.

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KOLKATA - 700 094

Office Phone : 2462-6869
Library : 2436-3919
E-mail : info@sammilanimahavidyalaya.org

Ref. No..... Date.....

16.09.2022

NOTICE

It is to be hereby informed that the Department of Physics is going to organize a QUIZ COMPETITION and POSTER PRESENTATION PROGRAMME on 23/09/2022, Friday from 12:00 noon onwards. Interested participants should enrol their names on or before 21.09.2022 at the department for Quiz Competition. All students are encouraged to participate and asked to be present on that day.

Ujjal Saren 16/09/22

Ujjal Saren

Physics Department

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Sammilani Mahavidyalaya

Physics Department

Dated: 29.12.2022

NOTICE

It is hereby notified that the Department of Physics is going to organize departmental quiz competition on 06/01/2023 from 12.00 noon onwards for the occasion of "Students' Week" observation. Topic of the quiz competition will be on 'General Science'. All the faculty members are requested to attend and lead the programme. Students are encouraged to participate and enlist their names within 04/01/2023.

Ujjal Saren
(Ujjal Saren) 29/12/22

Department of Physics

DEPT OF PHYSICS
Sammilani Mahavidyalaya
E.M. By Pass, Baghajatin
Kolkata-700094

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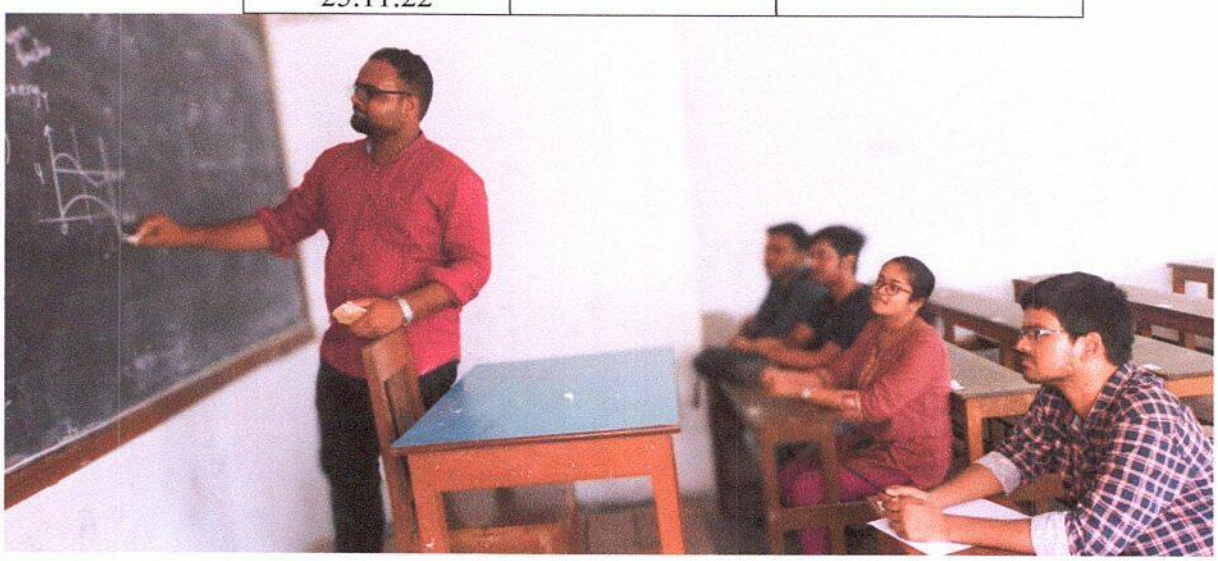
Report of Role Reversal during the session: 2022-23

Role reversal is a common counselling skill helps student's experience, different perspective by playing an opposing role. The department has encouraged the advanced learner students as role reversal play of a teacher during regular classes. Students have taken the teaching responsibilities about 10-15 minutes during the class hours. The role playing exercise the students to think more critically.

This allow them to think from different view point, actively participate in activities & develop more comprehensive idea about specific subjects.

It develops the confidence & improves communication skill of the student & also motivates the other students

Date of Role Reversal	Semester	Name of students
26.09.22 27.03.23	I/II	Sk Suhaib
10.09.22 10.05.23	III/IV	Subhajit Halder
27.08.22 06.04.23	III/IV	Sunny Sarkar
15.09.22 21.12.22	V	Soumik Giri
15.09.22 25.11.22	V	Supriyo Dutta



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Publication of Wall Magazine "Dialego" and Departmental Seminar of Department of Political Science

On the 28th of September 2022 a Departmental Seminar was organized by the Department of Political Science in Room No.103 from 12.30pm onwards.

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E-mail : principal.sammalani@gmail.com
info@sammilanimahavidyalaya.org
Website : www.sammilanimahavidyalaya.org

Ref.No.....

Date 27/9/22

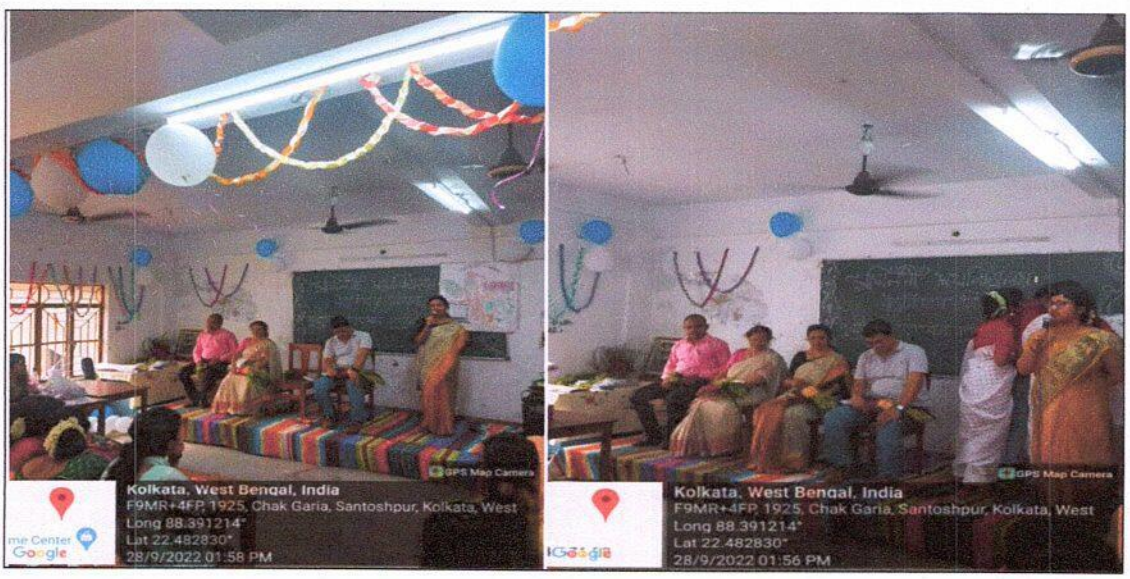
ANNOUNCEMENT

The Department of Political Science, Sammilani Mahavidyalaya is hereby notifying that the Wall Magazine named ***DIALEGO*** will be published on 28th September 2022(Wednesday) based on theme "*Humanity and Disaster*". Subsequently a presentation will be made by Advance Course students of the Department on the stated theme.

Time: 12.30pm onwards
Venue: Room No 103

Teacher in Charge
27/9/22

Head of the Department 26.9.22



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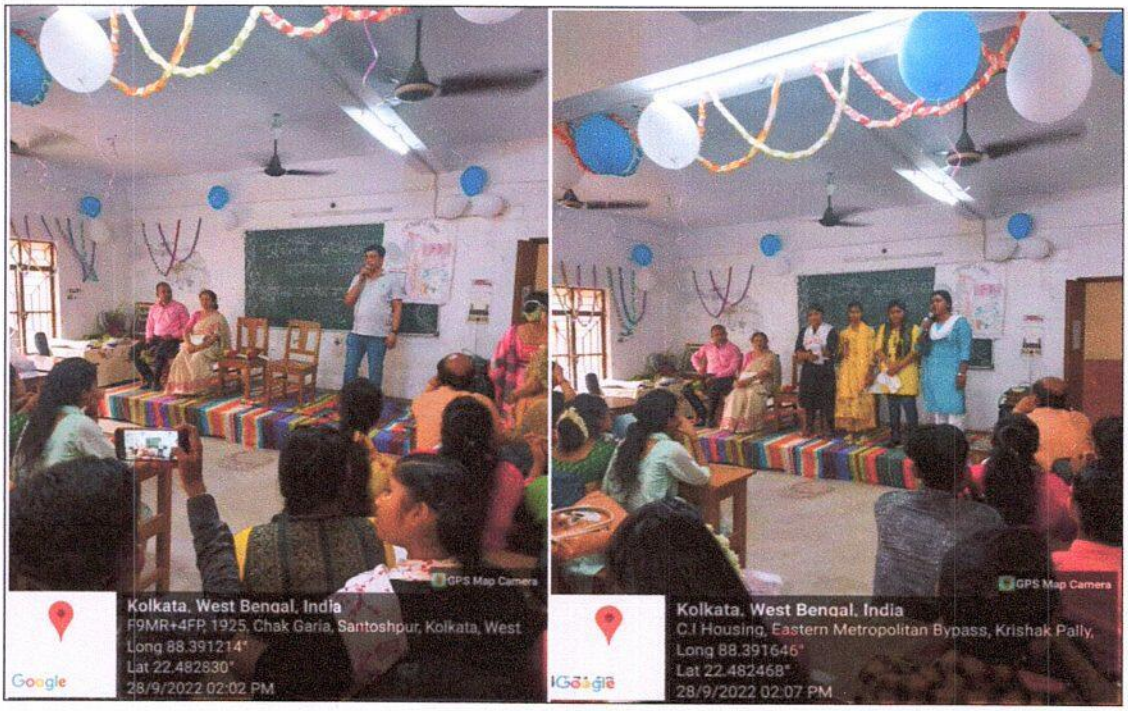

Glimpses of Inaugural Address and Presentation by Students

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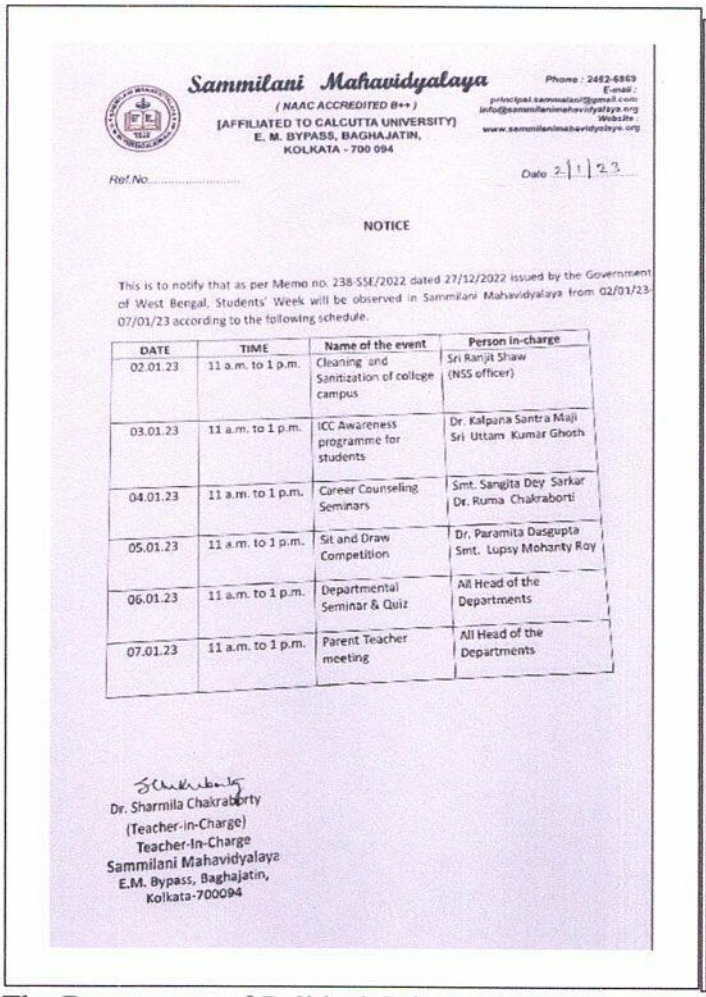
OBSERVATION OF STUDENTS WEEK

It was decided that according to Memo No. 238-SSE/2022 dated 27/12/22 of Government of West Bengal, our institution will observe Student's Week from 02/01/23 to 07/01/23.



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E-mail : principal.sammilanis@gmail.com
info@sammilanimahavidyalaya.org
Website : www.sammilanimahavidyalaya.org

Ref.No. .....

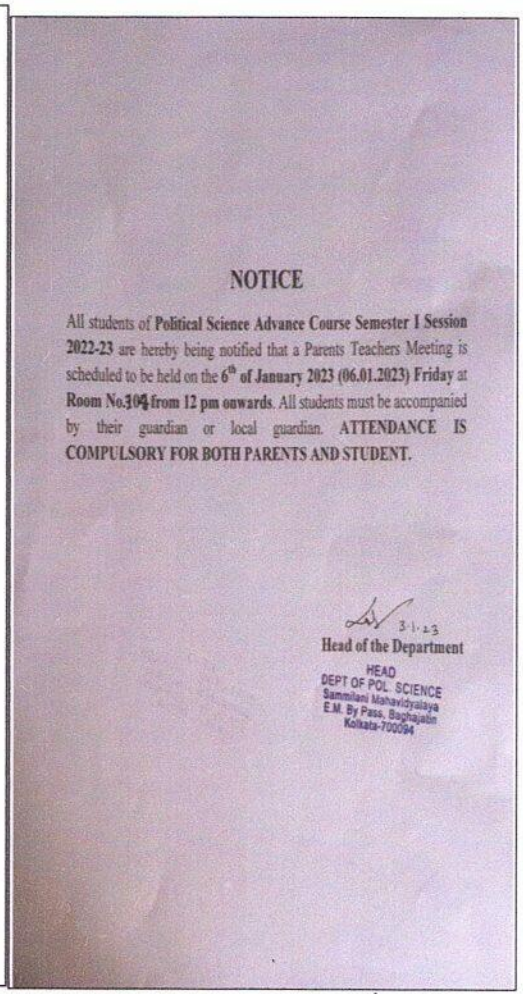
Date 2/1/23

NOTICE

This is to notify that as per Memo no. 238-SSE/2022 dated 27/12/2022 issued by the Government of West Bengal, Students' Week will be observed in Sammilani Mahavidyalaya from 02/01/23-07/01/23 according to the following schedule.

DATE	TIME	Name of the event	Person in-charge
02.01.23	11 a.m. to 1 p.m.	Cleaning and Sanitization of college campus	Sri Ranjit Shaw (NSS officer)
03.01.23	11 a.m. to 1 p.m.	ICC Awareness programme for students	Dr. Kalpana Santra Maji Sri Uttam Kumar Ghosh
04.01.23	11 a.m. to 1 p.m.	Career Counseling Seminars	Smt. Sangita Dey Sarkar Dr. Ruma Chakraborti
05.01.23	11 a.m. to 1 p.m.	Sit and Draw Competition	Dr. Paramita Dasgupta Smt. Lupsy Mohanty Roy
06.01.23	11 a.m. to 1 p.m.	Departmental Seminar & Quiz	All Head of the Departments
07.01.23	11 a.m. to 1 p.m.	Parent Teacher meeting	All Head of the Departments

Dr. Sharmila Chakraborty
(Teacher-in-Charge)
Teacher-In-Charge
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin,
Kolkata-700094



NOTICE

All students of **Political Science Advance Course Semester I Session 2022-23** are hereby being notified that a Parents Teachers Meeting is scheduled to be held on the **6th of January 2023 (06.01.2023) Friday** at **Room No.304 from 12 pm onwards**. All students must be accompanied by their guardian or local guardian. **ATTENDANCE IS COMPULSORY FOR BOTH PARENTS AND STUDENT.**

3.1.23
Head of the Department

HEAD
DEPT OF POL. SCIENCE
Sammilani Mahavidyalaya
E.M. By Pass, Baghajatin
Kolkata-700094

The Department of Political Science decided to have Quiz Competition on the 6th of January 2023 subsequently after the Parents Teacher Meeting (PTM) held for Semester I students at Room No.304 from 12 Noon onwards. 15 students participated in the quiz and they were divided into groups. All the participants were given pen and winning team won text books related to their syllabus so that it can help them for better result. The questions were related to Core Course 1 and 2 of Advance Course. The Parents who could manage to come for the meeting were informed about the progress of their ward and how to keep an eye on them, keep a track of their studies and attendance. There were students who participated in SIT AND DRAW competition, Cleaning and Sanitization of college campus too.

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Microbiome Food Festival

28th February 2020

Department of Microbiology

The Department of Microbiology, Sammilani Mahavidyalaya in collaboration with Microbiologists Society of India had organised a Food festival named "Microbiome Food Festival 2020" on 28th of February 2020. The venue of the festival was at the college campus. The food for this was exclusively fermented food prepared by the students of Semester II and Semester III.

The objective of the food festival was to make people aware about the health benefits of fermented foods. The students prepared the items by procuring the suitable ingredients. They prepared different types of fermented food and explained the process and nutritional values to the buyers.

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E-mail :
info@sammilanimahavidyalaya.org

Ref. No.....

Date.....

20.02.2020

NOTICE

It is hereby notified that the department of Microbiology is going to host a food festival of Fermented Foods in association with the Microbiologists Society of India. The food festival would be held in the corridors adjoining the department. All teachers and students are welcome to visit the food stalls to taste the various items. This would encourage the students and would make the endeavour a great success.

S. Pal Chaudhuri

(Dr. S.Pal Chaudhuri)
Principal
Sammilani Mahavidyalaya

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

GLIMPSES OF CULTURAL ACTIVITIES AND CO CURRICULAR ACTIVITIES OF STUDENTS OF SAMMILANI MAHAVIDYALAYA (2022-2023)

Cultural Programme at Silver Jubilee Celebration of College

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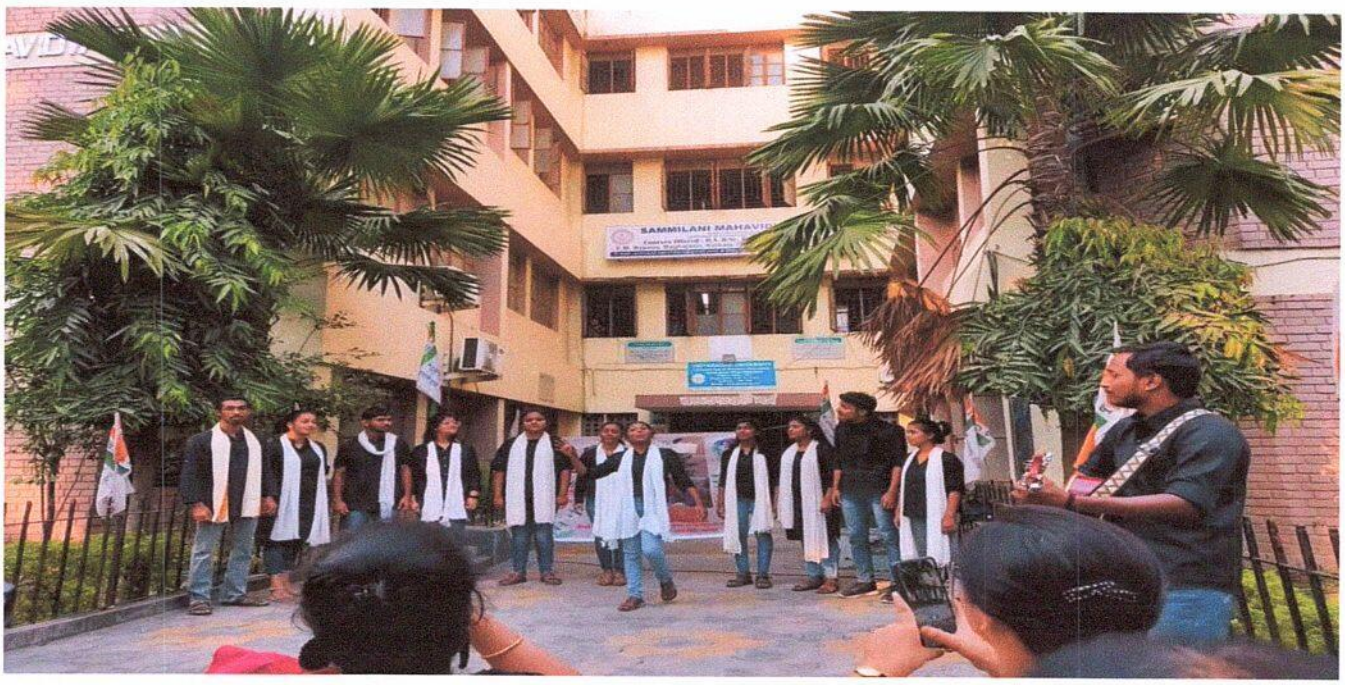
Cultural Programme at Silver Jubilee Celebration of College

Performance of Students at Street Play Workshop



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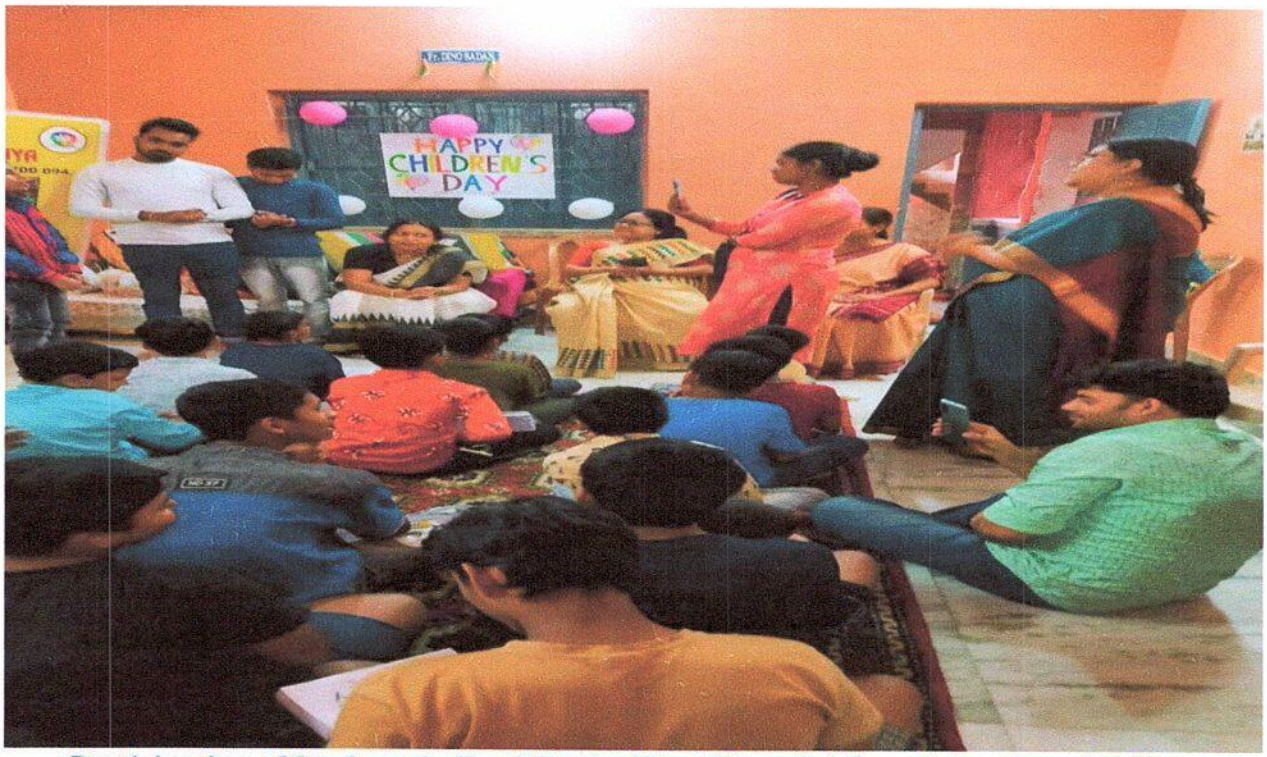
Participation of Students in Children's Day at Orphanage



Participation of Students in Food Festival For Silver Jubilee celebration of College

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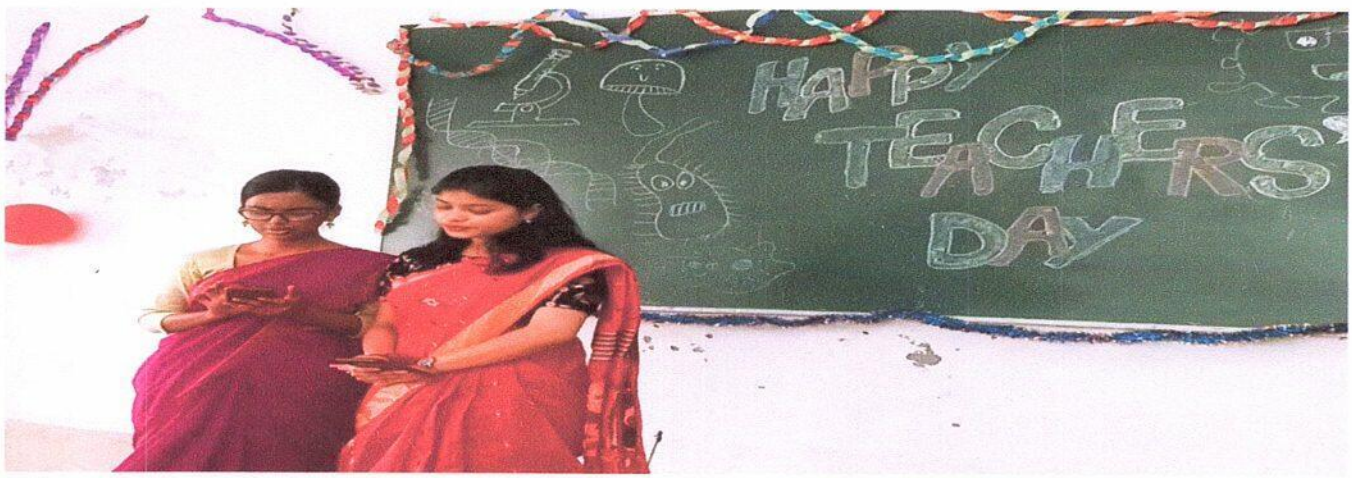
Participation of Students in Saraswati Puja of College

Participation of Students in Teachers' day Celebration of College



Participation of Students in Social Outreach Programme of College

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Supporting Documents: Problem Solving Methodologies

Problem solving is the act of defining a problem and determining the cause of the problem. It emphasizes on identifying, prioritizing, and selecting answers of a solution for its proper explanation and implementation. It is practiced by the institution by adopting the following processes.

- All questions in examination are based on analysis and reasoning.
- Study materials are provided for all lectures
- A well-equipped laboratory with books as well as e-resources
- Free internet access in the library and wifi facilities in campus promotes the habit of searching online information on a subject or topic.

The act of discussions enables the students to think wide and urge them to come up with innovative ideas through knowledge sharing

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SCHEDULE OF SURPRISE TEST AND INTERNAL ASSESSMENTS OF VARIOUS DEPARTMENTS

GEOGRAPHY

Academic session - 2022-2023

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)	Surprise test (S) or notified in advance (N)
27.09.22	Sem I	CC1	Agents of erosion	10	PDG	MCQ (Online)	S
3.12.22		CC1	Mass wasting	10	SG	Long and short (Offline)	N
20.12.22		CC1	Rocks and minerals	10	KM	Practical	N
9.1.23		CC2	Angular and linear measurement	10	PDG	Long and short (Offline)	N
6.2.23		CC1,CC2	Full syllabus	10+10	PDG	Long and short (Offline)	N
15.09.22	Sem III	CC5	Atmospheric circulation	10	AM	Short question (Offline)	S
21.11.22		CC6	T-S diagram	10	PDG	Long and short (Offline)	N
23.11.22		CC5	Layering of the atmosphere	10	SG	Long and short (Offline)	N
25.11.22		CC7	Linear regression	15	NR	Long and short (Offline)	N
5.12.22		CC7	Full syllabus	10	NR	Short question (Offline)	S
8.12.22		CC5,CC6	Full syllabus	10+10	AM	Long and short (Offline)	N
9.12.22		CC7,SEC A	Full syllabus	10	NR	Long and short (Offline)	N
11/11/22	Sem V	DSE A2	Global initiative for climate change	10	PDG	Long and short (Offline)	
19.11.22		DSE B 5	Cultural hearth and cultural realm	10	SG	Long and short (Offline)	N
22.11.22		CC12	Research Methodology	10	AP	Short question (Offline)	S
8.12.22		CC11, CC12	Full syllabus	10	KM	Long and short (Offline)	N
9.12.22		DSE A2,DSE B5	Full syllabus	10	NR	Long and short (Offline)	N
7.4.23	Sem II	CC4	G-map	10	AP	practical	S
12.5.23		CC3	Arithmetic growth rate	20	PDG	Practical	N
19.5.23		CC3	Population growth and distribution	10	SG	Long and short (Offline)	N

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9.6.23		CC3,CC4	Full Syllabus	10	PDG	Long and short (Offline)	N
12.4.23	Sem IV	CC10	Soil sample test	15	KM	Practical	S
17.4.23		CC8	Growth and development	15	AM	Long and short (Offline)	N
17.4.23		SECB	Sustainable development	10	AP	Long and short (Offline)	N
27.4.23		CC10	Biogeochemical cycle	10	PDG	Long and short (Offline)	N
16.5.23		CC8,CC9	Full Syllabus	10	SG	Long and short (Offline)	N
17.5.23		CC10, SEC B	Full Syllabus	10	AP	Long and short (Offline)	N
26.4.23	Sem VI	DSE A	Resource depletion	10	SG	Long and short (Offline)	N
4.5.23		CC13	Thought	15	AP	MCQ (Online)	N
16.5.23		CC13,CC14	Full Syllabus	10	KM	Long and short (Offline)	N
17.5.23		DSE A,DSEB	Full Syllabus	10	NR	Long and short (Offline)	N

NAME OF THE FACULTIES
Dr. Paramita Dasgupta (PDG)
Sri Kamonasish Mistry (KM)
Smt. Arundhuti Mukherjee (AM)
Smt. Saheli Ghosh (SG)
Sri Nayan Roy (NR)
Sri Achintya Pramanik (AP)

Academic session - 2021-2022

Date of internal evaluation	Semester	Course	Topic	Full Marks	Taken by	Pattern of question (online/ offline)	Surprise test (S) or notified in advance (N)
22.09.21	Sem I	CC1	Weathering	15	PDG	Short question (online)	S
12.11.21		CC2	Scale	15	KM	Long and short (online)	N
15.11.21		CC1	Coastal erosion	15	PDG	Long and short (Online)	N
7.12.21		CC2	UTM	10	AP	Long and short (Online)	N
15.2.22		CC1,CC2	Full syllabus	10+10	PDG	Long and short (Offline)	N
10.9.21	Sem III	CC5	Precipitation mechanism	10	AM	Long and short (online)	S
2.10.21		CC5	Origin and composition of atmosphere	15	SG	Long and short (Offline)	N
30.11.21		CC6	Air-sea interaction	15	PDG	Long and short (Offline)	N

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9.12.21		CC7	Linear regression	10	NR	Long (Offline)	N
13.12.21		CC7	Sampling	10	KM	Long and short (Offline)	N
22.12.21		CC5,CC6 ,CC7	Full Syllabus	10+10+ 10	AM	Long and short (Offline)	N
12.11.21	Sem V	CC12	Data structure	10	AP	short (Online)	S
7.12.21		CC12	Principles of remote sensing	15	AP	MCQ (online)	N
7.12.21		DSE B5	Urban settlement	10	AM	Long and short (Online)	N
11.12.21		DSE B5	Cultural diffusion	10	SG	Long and short (Online)	N
12.12.21		DSE A2	Climate change	10	PDG	Long and short (Offline)	N
11.4.22	Sem II	CC4	G-map	10	AP	short (Offline)	S
11.5.22		CC4	Abney level	10	NR	MCQ (online)	N
24.5.22		CC3	Demographic transition	10	SG	Long and short (Online)	N
20.6.22		CC3,CC4	Full syllabus	10	PDG	Long and short (Offline)	N
12.4.22	Sem IV	CC10	Soil sample test	15	KM	Practical	N
22.4.22		CC8	Human development	10	AM	Long and short (Offline)	N
27.5.22		CC9	Concept of metropolitan area	10	SG	Long and short (Offline)	N
16.6.22		CC8,CC9 ,CC10	Full Syllabus	10+10+ 10	PDG	Long and short (Offline)	N
5.3.22	SemVI	CC14	Disaster and Hazard	10	NR	short (Offline)	S
12.4.22		CC14	Hazard mapping	15	KM	Long and short (Offline)	N
21.4.22		CC8	Significance of resource	15	SG	Long and short (Offline)	N
23.4.22		DSE B8	Climate and soil of India	20	PDG	Long and short (Offline)	N
9.6.22		Cc13,cc1 4	Full syllabus	10+10	KM	Long and short (Offline)	N
10.6.21		DSE A,DSE B	Full syllabus	10+10	AP	Long and short (Offline)	N

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Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)	Surprise test (S) or notified in advance (N)
12.11.2020	Sem I	CC1	Entrainment	10	PDG	MCQ and short answer type (online)	N
19.11.20		CC2	Coordinate system	10	AP	MCQ and short answer type (online)	N
22.11.20		CC1	Coastal erosion	10	PDG	Short (Online	S
7.11.20	Sem III	CC5	Air mass	15	AM	Short answer type (online)	N
9.11.20		CC6	Relief features of the ocean floor	15	PDG	Short answer type (online)	N
5.11.20	Sem V	CC11	Types of hazards	10	KM	MCQ and short answer type (online)	N
19.4.21	Sem II	CC4	Rounding	10	AP	MCQ (online)	S
29.4.21		CC3	Race and ethnicity	15	AM	Short answer type (online)	N
30.6,21		CC4	Full syllabus	10	PDG	Long and short (Online)	N
5.7.21		CC3	Full syllabus	10	AP	Long and short (Online)	N
17.4,21	SemIV	CC9	Rostow's theory	10	NR	Long and short (Online)	N
19,4,21		CC8	Tertiary activities	15	AP	Long and short (Online)	N
22,4,21,		CC10	Soil properties	10	KM	MCQ (online)	S
23.6.21		CC10	Full syllabus	10	PDG	Long and short (Online)	N
3.7.21		CC8	Full syllabus	10	AP	Long and short (Online)	N
7.7.21		CC9	Full syllabus	10	AM	Long and short (Online)	N
22,4,21	SEM VI	CC14	Types of hazards	10	KM	MCQ (online)	S
18.6.21		CC13,CC14	Full syllabus	10+10	PDG	Long and short (Online)	N
19.6.21		DSEA,DSEB	Full syllabus	10+10	AP	Long and short (Online)	N

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Academic session - 2019-2020

Date	Semester/ Year	Paper/ course	Topic	Full Marks	Taken by	Pattern of question	Surprise test (S) or notified in advance (N)
20.11.19	I	CCI	Geomorphology and time	10	AP	MCQ	S
24.11.19		CC2	Classifiaction of projection	10	PDG	Long Question	N
5.12.19		CC2	Scale	15	KM	Practical	N
1.12.19	III	CC5	Atmospheric circulation	15	AM	Long and short question	N
7.12.19		CC6	Ground water	15	AP	Long and short question	N
7.12.19		CC6	Ocean floor topography	15	PDG	Long and short question	N
7.1.20	III rd yr	Module XIII	Hazard and disaster	15	KM	Long and short question	N
12.2.20		Module XIV	GIS	10	NR	Practical	N

No Internal examination was conducted after that due to the outbreak of Covid 19 pandemic and lock down.

Academic session - 2018-2019

Date	Semester/ Year	Paper/ course	Topic	Full Marks	Taken by	Pattern of question	Surprise test (S) or notified in advance (N)
10.10.18	I	CCI	Landscape evolution	10	PDG	MCQ	S
12.10.18	I	CC2	Concept of scale	15	KM	short question	N
24.04.19	II	CC3	Population growth, and distribution	15	AM	Long question	N
26.4.19	II	CC4	Angular and linear measurement, coordinate	15	PDG	MCQ	N
7.09.18	2nd year Hons	Module VI	Eecology	10	AP	Short question	N
4.10.18		Module VI	Soil Type	10	SG	MCQ	S
11.01.19	2nd year General	Module III	Biome	15	AP	Short question	S
07.12.18	3rd year Hons	Module IX	Quantitative revolution	15	AM	Short question	N
10.12.18		Module XI	Flood	15	PDG	Long question	N
05.12.18	3rd year Gen	Paper IV	Landuse	10	SG	Short question	S
07.12.18		Paper IV	Settlemen	15	AP	Long and short question	N

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CHEMISRTY

Academic session – 2022-2023

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
23/06/2023	VI	CC-13	Bio-Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Offline
23/06/2023	VI	CC-14	Molecular Spectroscopy	10	Dr. Durba Ganguly	M.C.Q. , Offline
23/06/2023	VI	DSE-A3	Green Chemistry	10	Dr. Krishnendu Aich	M.C.Q. , Offline
28/07/2023	IV	CC-8	Organic Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
28/07/2023	IV	CC-9	Physical Chemistry	10	Dr. Durba Ganguly	M.C.Q. , Offline
28/07/2023	IV	CC-10	Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Offline
28/07/2023	IV	SEC-B2	Pesticide Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
09/08/2023	II	CC-4	Inorganic Chemistry-II	10	Mr. Sumit Pal	M.C.Q. , Offline
09/08/2023	II	CC-3	Organic Chemistry-II	10	Dr. Krishnendu Aich	M.C.Q. , Offline

Academic session – 2021-2022

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
29/06/2022	VI	DSE-B3	Polymer Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
29/06/2022	VI	DSE-A3	Green Chemistry	10	Dr. Krishnendu Aich	M.C.Q. , Offline
29/06/2022	VI	CC-14	Molecular Spectroscopy	10	Dr. Durba Ganguly	M.C.Q. , Offline
29/06/2022	VI	CC-13	Bio-Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Offline
13/01/2023	V	CC-11	Physical Chemistry	10	Dr. Senjuti Banik	M.C.Q. , Offline
13/01/2023	V	DSE-B1	Industrial Chemistry	10	Mr. Sumit Pal	M.C.Q. , Offline
13/01/2023	V	DSE-A2	Computer Application	10	Dr. Durba Ganguly	M.C.Q. , Offline
27/07/2022	IV	CC-8	Organic Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
27/07/2022	IV	CC-9	Physical Chemistry	10	Dr. Durba Ganguly	M.C.Q. , Offline
27/07/2022	IV	CC-10	Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Offline
27/07/2022	IV	SEC-B2	Pesticide Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
17/01/2023	III	CC-5	Physical Chemistry	10	Dr. Senjuti Banik	M.C.Q. , Offline
17/01/2023	III	CC-6	Inorganic	10	Mr. Sumit Pal	M.C.Q.

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			Chemistry			Offline
17/01/2023	III	CC-7	Organic Chemistry	10	Dr. Krishnendu Aich	M.C.Q. , Offline
17/01/2023	III	SEC-A2	Analytical Biochemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
27/07/2022	II	CC-3	Organic Chemistry-II	10	Dr. Krishnendu Aich	M.C.Q. , Offline
27/07/2022	II	CC-4	Inorganic Chemistry-II	10	Mr. Sumit Pal	M.C.Q. , Offline
21/06/2022	I	CC-1	Inorganic + Organic	10	Dr. Shefali Pal	M.C.Q. , Offline
21/06/2022	I	CC-2	Physical + Organic	10	Mr . Sandipan Mallik	M.C.Q. , Offline

Academic session – 2020-2021

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
02/08/2021	VI	DSE-B3	Polymer Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Online
04/08/2021	VI	CC-13	Bio-Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q, Online
05/08/2021	IV	CC-8	Organic Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Online
11/08/2021	IV	CC-10	Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Online
13/08/2021	IV	SEC-B1	Pharmacetical chemistry	10	Mr. Sumit Pal	M.C.Q. , Online
14/08/2021	II	CC-4	Inorganic Chemistry-II	10	Mr. Sumit Pal	M.C.Q. , Online
31/08/2021	II	CC-3	Organic Chemistry-II	10	Dr. Krishnendu Aich	M.C.Q. , Online
11/03/2022	I	CC-2	Physical + Organic	10	Mr . Sandipan Mallik	M.C.Q. , Offline

Academic session – 2019-2020

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
19/03/2021	V	DSE-A2	Computer Application	10	Dr. Durba Ganguly	M.C.Q. , Online
22/03/2021	V	DSE-B1	Industrial Chemistry	10	Mr. Sumit Pal	M.C.Q. , Online
24/03/2021	V	CC-12	Organic Chemistry	10	Dr. Krishnendu Aich	M.C.Q. , Online
24/03/2021	V	CC-11	Physical Chemistry	10	Dr. Senjuti Banik	M.C.Q. , Online
24/03/2021	III	SEC-A1	Mathematics And Statistics	10	Mr. Sumit Pal	M.C.Q. , Online
09/03/2021	III	CC-7	Organic Chemistry	10	Dr. Krishnendu Aich	M.C.Q. , Online
09/03/2021	III	CC-5	Physical	10	Dr. Senjuti	M.C.Q. , Online

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			Chemistry		Banik	
22/03/2021	III	CC-6	Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Online
24/03/2021	I	CC-2	Physical + Organic	10	Mr . Sandipan Mallik	M.C.Q. , Online
24/03/2021	I	CC-1	Inorganic + Organic	10	Dr. Shefali Pal	M.C.Q. , Online
22/12/2020	IV	SEC-B1	Pharmacetical chemistry	10	Mr. Sumit Pal	M.C.Q. , Online

Academic session – 2018-2019

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
29/11/2019	III	SEC-A2	Analytical Biochemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
29/11/2019	III	CC-7	Organic Chemistry	10	Dr. Krishnendu Aich	M.C.Q. , Offline
29/11/2019	III	CC-6	Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Offline
29/11/2019	III	CC-5	Physical Chemistry	10	Dr. Durba Ganguly	M.C.Q. , Offline
03/12/2019	I	CC-1	Inorganic + Organic	10	Dr. Shefali Pal	M.C.Q. , Offline
03/12/2019	I	CC-2	Physical + Organic	10	Mr . Sandipan Mallik	M.C.Q. , Offline
06/06/2019	II	CC-4	Inorganic Chemistry-II	10	Mr. Sumit Pal	M.C.Q. , Offline
06/06/2019	II	CC-3	Organic Chemistry-II	10	Dr. Krishnendu Aich	M.C.Q. , Offline

COMPUTER SCIENCE

Surprise test:

The surprise test was administered regularly to assess students' understanding of the recently covered material and their ability to apply the concepts in problem-solving scenarios.
Internal assessments as per University guideline

Google classroom is used massively for material sharing and home assignments.

The links are:

i. https://classroom.google.com/c/MzkyNDg5MjQ3MTg4?cjc=x42drfz
ii. https://classroom.google.com/c/MzkyNDg5MjQ3MTg4?cjc=x42drfz
iii. https://classroom.google.com/c/MzE4MTQwNjE2Nzk3?cjc=hdrfl34
iv. https://classroom.google.com/c/MzI1NzIwNjYxNDAw?cjc=j6beszm
v. https://classroom.google.com/c/MzQzNTU2MTk1MDM2?cjc=lns5pyd

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MATHEMATICS

Continuous Internal Evaluation

Date of Internal Evaluation	Semester	Course	Topic	Full Marks (10)	Taken By	Pattern of Question (Online/ Offline)
Acadecic Session: 2020-21						
ODD Semester						
23.02.2021	MTMA Sem - V	CC-11	Probability & Statistics	10	SS	MCQ Online
24.02.2021	MTMA Sem - V	CC-12	Ring Theory & Linear Algebra-II	10	SD	MCQ Online
25.02.2021	MTMA Sem - V	DSE - A	Advance Algebra	10	SD	MCQ Online
26.02.2021	MTMA Sem - V	DSE - B	Linear Programming & Game Theory	10	RH, MR	MCQ Online
26.02.2021	MTMG Sem - V	DSE-A	Particle Dynamics	10	RH	MCQ Online
23.02.2021	MTMA Sem - III	CC-5	Theory of Real Functions	10	SS, MR	MCQ Online
24.02.2021	MTMA Sem - III	CC-6	Ring Theory & Linear Algebra-I	10	SD	MCQ Online
25.02.2021	MTMA Sem - III	CC-7	ODE & Multivariate Calculus	10	RH, MR	MCQ Online
26.02.2021	MTMA Sem - III	SEC-A	C Programming	10	MR	MCQ Online
26.02.2021	MTMG Sem - III	CC/GE-3	Integral Calculus, Numerical Analysis & LPP	10	RH, MR, SS	MCQ Online
26.02.2021	MTMG Sem - III	SEC-A	C Programming	10	MR	MCQ Online
25.02.2021	MTMA Sem - I	CC-1	Calculus, Geometry & Vector Analysis	10	MR,RH	MCQ Online
26.02.2021	MTMA Sem - I	CC-2	Algebra	10	SS, SD	MCQ Online
25.02.2021	MTMG Sem - I	CC/GE-1	Calculus, Geometry, Vector	10	SS,SD,MR,RH	MCQ Online
		EVEN Semester				
19.07.2021	MTMA Sem - VI	CC-13	Metric Space & Complex Analysis	10	SD	MCQ Online
19.07.2021	MTMA Sem - VI	CC-14	Numerical Methods	10	MR	MCQ Online
19.07.2021	MTMA Sem - VI	DSE - A	Mathematical Modelling	10	MR, RH	MCQ Online
19.07.2021	MTMA Sem - VI	DSE - B	Point Set Topology	10	SD	MCQ Online
19.07.2021	MTMG Sem - VI	DSE - B	Advance Calculus	10	RH	MCQ Online
20.07.2021	MTMA Sem - IV	CC-8	Riemann Integration & Series of Function	10	SS, RH	MCQ Online
20.07.2021	MTMA Sem - IV	CC-9	PDE & Multivariate Calculus - II	10	RH,MR	MCQ Online
20.07.2021	MTMA Sem - IV	CC-10	Mechanics	10	MR, RH	MCQ Online
20.07.2021	MTMA Sem - IV	SEC - B	SageMath	10	MR	MCQ Online
20.07.2021	MTMG Sem - IV	CC/GE-4	Algebra - II, Programming, Probability	10	MR,SS	MCQ Online
22.07.2021	MTMG Sem - II	CC-2	DC, DE, VA & DM	10	SD,MR,SS,RH	MCQ Online
23.07.2021	MTMA Sem - II	CC-3	Real Analysis	10	SS	MCQ Online
23.07.2021	MTMA Sem - II	CC-4	Group Theory - II	10	SD	MCQ Online
Acadecic Session: 2021-22						
ODD Semester						
03.01.2022	MTMA Sem - V	CC-11	Probability & Statistics	10	SS	MCQ Offline
03.01.2022	MTMA Sem - V	CC-12	Ring Theory & Linear Algebra-II	10	SD	MCQ Offline
03.01.2022	MTMA Sem - V	DSE - A	Advance Algebra	10	SD	MCQ Offline
03.01.2022	MTMA Sem - V	DSE - B	Linear Programming & Game Theory	10	RH, MR	MCQ Offline
03.01.2022	MTMG Sem - V	DSE-A	Particle Dynamics	10	RH	MCQ Offline
03.01.2022	MTMA Sem - III	CC-5	Theory of Real Functions	10	SS, MR	MCQ Offline
03.01.2022	MTMA Sem - III	CC-6	Ring Theory & Linear Algebra-I	10	SD	MCQ Offline
03.01.2022	MTMA Sem - III	CC-7	ODE & Multivariate Calculus	10	RH, MR	MCQ Offline
05.01.2022	MTMA Sem - III	SEC-A	C Programming	10	MR	MCQ Offline
05.01.2022	MTMG Sem - III	CC/GE-3	Integral Calculus, Numerical Analysis & LPP	10	RH, MR, SS	MCQ Offline
06.01.2022	MTMG Sem - III	SEC-A	C Programming	10	MR	MCQ Offline
19.02.2022	MTMA Sem - I	CC-1	Calculus, Geometry & Vector Analysis	10	MR,RH	MCQ Offline
19.02.2022	MTMA Sem - I	CC-2	Algebra	10	SS, SD	MCQ Offline
19.02.2022	MTMG Sem - I	CC/GE-1	Calculus, Geometry, Vector	10	SS,SD,MR,RH	MCQ Offline
Even Semester						
15.06.2022	MTMA Sem - VI	CC-13	Metric Space & Complex Analysis	10	SD	MCQ Offline
15.06.2022	MTMA Sem - VI	CC-14	Numerical Methods	10	MR	MCQ Offline

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15.06.2022	MTMA Sem - VI	DSE - A	Mathematical Modelling	10	MR, RH	MCQ Offline
15.06.2022	MTMA Sem - VI	DSE - B	Point Set Topology	10	SD	MCQ Offline
15.06.2022	MTMG Sem - VI	DSE - B	Advance Calculus	10	RH	MCQ Offline
17.06.2022	MTMA Sem - IV	CC-8	Riemann Integration & Series of Function	10	SS	MCQ Offline
17.06.2022	MTMA Sem - IV	CC-9	PDE & Multivariate Calculus - II	10	RH,MR	MCQ Offline
17.06.2022	MTMA Sem - IV	CC-10	Mechanics	10	MR, RH	MCQ Offline
17.06.2022	MTMA Sem - IV	SEC - B	SageMath	10	MR	MCQ Offline
17.06.2022	MTMG Sem - IV	CC/GE-4	Algebra - II, Programming, Probability	10	MR,SS	MCQ Offline
17.06.2022	MTMG Sem - II	CC-2	DC, DE, VA & DM	10	SD,MR,SS,RH	MCQ Offline
17.06.2022	MTMA Sem - II	CC-3	Real Analysis	10	SS	MCQ Offline
17.06.2022	MTMA Sem - II	CC-4	Group Theory - II	10	SD	MCQ Offline
Acadecic Session: 2022-23						
ODD Semester						
14.12.2022	MTMA Sem - V	CC-11	Probability & Statistics	10	SS	MCQ Offline
14.12.2022	MTMA Sem - V	CC-12	Ring Theory & Linear Algebra-II	10	SD	MCQ Offline
14.12.2022	MTMA Sem - V	DSE - A	Advance Algebra	10	SD	MCQ Offline
14.12.2022	MTMA Sem - V	DSE - B	Linear Programming & Game Theory	10	RH, MR	MCQ Offline
15.12.2022	MTMG Sem - V	DSE-A	Particle Dynamics	10	RH	MCQ Offline
15.12.2022	MTMA Sem - III	CC-5	Theory of Real Functions	10	SS, MR	MCQ Offline
15.12.2022	MTMA Sem - III	CC-6	Ring Theory & Linear Algebra-I	10	SD	MCQ Offline
15.12.2022	MTMA Sem - III	CC-7	ODE & Multivariate Calculus	10	RH, MR	MCQ Offline
15.12.2022	MTMA Sem - III	SEC-A	C Programming	10	MR	MCQ Offline
15.12.2022	MTMG Sem - III	CC/GE-3	Integral Calculus, Numerical Analysis & LPP	10	RH, MR, SS	MCQ Offline
14.12.2022	MTMG Sem - III	SEC-A	C Programming	10	MR	MCQ Offline
03.02.2023	MTMA Sem - I	CC-1	Calculus, Geometry & Vector Analysis	10	MR,RH	MCQ Offline
03.02.2023	MTMA Sem - I	CC-2	Algebra	10	SS, SD	MCQ Offline
03.02.2023	MTMG Sem - I	CC/GE-1	Calculus, Geometry, Vector	10	SS,SD,MR,RH	MCQ Offline
Even Semester						
30.05.2023	MTMA Sem - VI	CC-13	Metric Space & Complex Analysis	10	SD	MCQ Offline
30.05.2023	MTMA Sem - VI	CC-14	Numerical Methods	10	MR	MCQ Offline
30.05.2023	MTMA Sem - VI	DSE - A	Mathematical Modelling	10	MR, RH	MCQ Offline
30.05.2023	MTMA Sem - VI	DSE - B	Point Set Topology	10	SD	MCQ Offline
30.05.2023	MTMG Sem - VI	DSE - B	Advance Calculus	10	RH	MCQ Offline
31.05.2023	MTMA Sem - IV	CC-8	Riemann Integration & Series of Function	10	SS	MCQ Offline
31.05.2023	MTMA Sem - IV	CC-9	PDE & Multivariate Calculus - II	10	RH,MR	MCQ Offline
31.05.2023	MTMA Sem - IV	CC-10	Mechanics	10	MR, RH	MCQ Offline
31.05.2023	MTMA Sem - IV	SEC - B	SageMath	10	MR	MCQ Offline
31.05.2023	MTMG Sem - IV	CC/GE-4	Algebra - II, Programming, Probability	10	MR,SS	MCQ Offline
23.06.2023	MTMG Sem - II	CC-2	DC, DE, VA & DM	10	SD,MR,SS,RH	MCQ Offline
23.06.2023	MTMA Sem - II	CC-3	Real Analysis	10	SS	MCQ Offline
23.06.2023	MTMA Sem - II	CC-4	Group Theory - II	10	SD	MCQ Offline

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MICROBIOLOGY

Academic Session 2022-23

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
30.1.23	1	CC1	Microbiology and microbial diversity	20	Sharmila Chakraborty	OFFLINE
31.1.23	1	CC2	Bacteriology	20	Pamela Dutta Roy	OFFLINE
22.6.23	2	CC3	Biochemistry	20	Pamela Dutta Roy	OFFLINE
21.6.23	2	CC4	Cell biology	20	Aryoma Chakraborty	OFFLINE
15.12.22	3	CC5	Virology	20	Madhuwrita Saha	OFFLINE
16.12.22	3	CC6	Microbial Metabolism	20	Pamela Dutta Roy	OFFLINE
14.12.22	3	CC7	Molecular biology	20	Sharmila Chakraborty	OFFLINE
14.12.22	3	SEC A1	Food and Pharamaceuticals	20	Aryoma Chakraborty	OFFLINE
1.6.23	4	CC8	Microbial genetics	20	Sharmila Chakraborty	OFFLINE
1.6.23	4	CC9	Environmental Microbiology	20	Aryoma Chakraborty	OFFLINE
2.6.23	4	CC10	Recombinant DNA Technology	20	Sharmila Chakraborty	OFFLINE
2.6.23	4	SEC B2	Air Water Analysis	20	Madhuwrita Saha	OFFLINE
15.12.22	5	CC11	Food and dairy Microbiology	20	Aryoma Chakraborty	OFFLINE
16.12.22	5	CC12	Industrial Microbiology	20	Madhuwrita Saha	OFFLINE
14.12.22	5	DSEA1	Microbial biotechnology	20	Pamela Dutta Roy	OFFLINE
9.12.22	5	DSEB1	Inheritance microbiology	20	Sharmila Chakraborty	OFFLINE
30.5.23	6	CC13	Immunology	20	Pamela Dutta Roy	OFFLINE
1.6.23	6	CC14	Medical Microbiology	20	Aryoma Chakraborty	OFFLINE
1.6.23	6	DSEA3	Plant Pathology	20	Madhuwrita Saha	OFFLINE
30.5.23	6	DSEB3	Instrumentation	20	Sharmila Chakraborty	OFFLINE

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Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
11.2.22	1	CC1	Microbiology and microbial diversity	20	Sharmila Chakraborty	OFFLINE
18.2.22	1	CC2	Bacteriology	20	Pamela Dutta Roy	OFFLINE
23.6.22	2	CC3	Biochemistry	20	Pamela Dutta Roy	OFFLINE
20.6.22	2	CC4	Cell biology	20	Aryoma Chakraborty	OFFLINE
3.1.22	3	CC5	Virology	20	Madhuwrita Saha	OFFLINE
5.1.22	3	CC6	Microbial Metabolism	20	Pamela Dutta Roy	OFFLINE
5.1.22	3	CC7	Molecular biology	20	Sharmila Chakraborty	OFFLINE
3.1.22	3	SEC A1	Food and Pharamaceuticals	20	Aryoma Chakraborty	OFFLINE
21.6.22	4	CC8	Microbial genetics	20	Sharmila Chakraborty	OFFLINE
20.6.22	4	CC9	Environmental Microbiology	20	Aryoma Chakraborty	OFFLINE
23.6.22	4	CC10	Recombinant DNA Technology	20	Sharmila Chakraborty	OFFLINE
22.6.22	4	SEC B2	Air Water Analysis	20	Madhuwrita Saha	OFFLINE
3.1.22	5	CC11	Food and dairy Microbiology	20	Aryoma Chakraborty	OFFLINE
3.1.22	5	CC12	Industrial Microbiology	20	Madhuwrita Saha	OFFLINE
5.1.22	5	DSEA1	Microbial biotechnology	20	Pamela Dutta Roy	OFFLINE
5.1.22	5	DSEB1	Inheritance microbiology	20	Sharmila Chakraborty	OFFLINE
10.6.22	6	CC13	Immunology	20	Pamela Dutta Roy	OFFLINE
16.6.22	6	CC14	Medical Microbiology	20	Aryoma Chakraborty	OFFLINE
16.6.22	6	DSEA3	Plant Pathology	20	Madhuwrita Saha	OFFLINE
10.6.22	6	DSEB3	Instrumentation	20	Sharmila Chakraborty	OFFLINE

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Academic Session 2020-21

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
	1	CC1	Microbiology and microbial diversity	20	Sharmila Chakraborty	ONLINE
	1	CC2	Bacteriology	20	Pamela Dutta Roy	ONLINE
6.7.21	2	CC3	Biochemistry	20	Pamela Dutta Roy	ONLINE
13.7.21	2	CC4	Cell biology	20	Aryoma Chakraborty	ONLINE
	3	CC5	Virology	20	Madhuwrita Saha	ONLINE
	3	CC6	Microbial Metabolism	20	Pamela Dutta Roy	ONLINE
	3	CC7	Molecular biology	20	Sharmila Chakraborty	ONLINE
	3	SEC A1	Food and Pharamaceuticals	20	Aryoma Chakraborty	ONLINE
8.7.21	4	CC8	Microbial genetics	20	Sharmila Chakraborty	ONLINE
13.7.21	4	CC9	Environmental Microbiology	20	Aryoma Chakraborty	ONLINE
16.7.21	4	CC10	Recombinant DNA Technology	20	Sharmila Chakraborty	ONLINE
14.7.21	4	SEC B2	Air Water Analysis	20	Madhuwrita Saha	ONLINE
	5	CC11	Food and dairy Microbiology	20	Aryoma Chakraborty	ONLINE
	5	CC12	Industrial Microbiology	20	Madhuwrita Saha	ONLINE
	5	DSEA1	Microbial biotechnology	20	Pamela Dutta Roy	ONLINE
	5	DSEB1	Inheritance microbiology	20	Sharmila Chakraborty	ONLINE
8.7.21	6	CC13	Immunology	20	Pamela Dutta Roy	ONLINE
14.7.21	6	CC14	Medical Microbiology	20	Aryoma Chakraborty	ONLINE
19.7.21	6	DSEA3	Plant Pathology	20	Madhuwrita Saha	ONLINE
20.7.21	6	DSEB3	Instrumentation	20	Sharmila Chakraborty	ONLINE

PHILOSOPHY

1. Internal assessment as per the University guideline
2. Project making as per the University guideline
3. Surprise test google form link: https://forms.gle/7N9MSYNsS5ALTjjZ8

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PHYSICS

Report on Internal Assessments & Projects

The Department of Physics, in each semester, takes internal examinations to test answer-writing capabilities, inherent skills and analytical abilities of the students. It reduces the weightage of external assessments. Students can engage themselves in studies throughout the year to score better marks. The students are more attentive to their studies as they want to improve their performance. The internal assessment schedule is planned and conducted as per guidelines laid by University of Calcutta. The schedule of the examination is communicated to the teachers and students well in advance. The Department also conducts project works on Environmental Studies, Arduino, LateX as Skill Enhancement Course (SEC).

Continuous Internal Evaluation (CIE)

Academic session – 2021-2023

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
12.06.2023	II (Hon)	CC3	Electricity and Magnetism	20	Ujjal Saren	Offline
09.06.2023	II (Gen)	CC2/GE2	Electricity and Magnetism	20	Ujjal Saren	offline
13.05.2023	II (Hon)	CC4	Wave and Optics	20	Ipsita Sen	Offline
	IV (Hon)	CC13	Digital systems and Application	20	Ipsita Sen	Offline
	VI (Gen)	DSEB	Digital Electronics	20	Ipsita Sen	Offline
	VI (Hon)	DSEA2	Nano Materials and Applications	20	Sannak Dutta Roy	Offline
	VI (Hon)	DSEA2	Nano Materials and Applications	30 Tutorial	Sannak Dutta Roy	Offline
	IV (Hon)	CC9	Analog Electronics	20	Sannak Dutta Roy	Offline
	IV (Hon)	CC10	Quantum Mechanics	20	Ujjal Saren	Offline
	IV (Gen)	CC4/GE4	Waves and Optics	20	Kalpana Santra	Offline
24.12.2022	I (Hon)	CC1	Mathematical Physics I	20	Ipsita Sen	Offline
16.12.2022	I (Hon)	CC2	Mechanics	20	Kalpana Santra	Offline
15.12.2023	V (Hon)	CC12	Statistical Physics	20	Ujjal Saren	Offline
14.12.2023	III (Gen)	CC3/GE3	Thermal Physics and Statistical Mechanics	20	Ujjal Saren	Offline

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09.12.2022	V (Hon)	CC11	Electromagnetic Theory	20	Kalpana Santra	Offline
	V (Hon)	DSEB1 TU	Nuclear and Particle Physics	30 Tutorial	Sayantani Kar	Offline
08.12.2022	V (Hon)	DSEB1 N IN	Nuclear and Particle Physics	20	Sayantani Kar	Offline
	V (Hon)	DSEA1	Laser and Fiber Optics	20	Sannak Dutta Roy	Offline
	V (Hon)	DSEA1	Laser and Fiber Optics	30 Tutorial	Sannak Dutta Roy	Offline
	III (Hon)	CC6	Thermal Physics	20	Sannak Dutta Roy	Offline
	III (Hon)	CC5	Mathematical Physics II	20	Bipan Dutta	Offline
07.12.2022	III (Hon)	CC7	Modern Physics	20	Ananya Kumar Kundu	Offline
	III (Hon)	CC8	Mathematical Physics III	20	Bipan Dutta	Offline
	III (Hon)	SEC	Scientific Writing	20	Ananya Kumar Kundu	Offline
06.12.2022	V (Gen)	DSEA	Analog Electronics	20	Ipsita Sen	Offline
22.06.2022	II (Hon)	CC4	Waves and Optics	10	Kalpana Santra	Offline
21.06.2022	IV (Hon)	CC8	Mathematical Physics III	10	Bipan Dutta	Offline
	VI (Hon)	DSEA2	Advanced Classical Dynamics	10	Ujjal Saren	Offline
	VI (Hon)	DSEA2	Advanced Classical Dynamics	15 Tutorial	Ujjal Saren	Offline
	IV (Hon)	CC10	Quantum Mechanics	10	Ujjal Saren	Offline
20.06.2022	IV (Gen)	CC4/GE4	Waves and Optics	10	Ipsita Sen	Offline
	IV (Hon)	CC9	Analog Electronics	10	Ipsita Sen	Offline
16.06.2022	VI (Gen)	SEC B	Arduino	10	Ananya Kumar Kundu	Offline
	IV (Hon)	SEC B	Arduino	10	Ananya Kumar Kundu	Offline
	VI (Hon)	CC14	Solid State Physics	10	Kalpana Santra	Offline
16.06.2022	II (Hon)	CC2/G	Electricity and	20	Ujjal	Offline

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		E2	Magnetism		Saren	
	VI (Gen)	DSEB1	Digital Electronics	10	Ipsita Sen	Offline
13.06.022	VI (Hon)	CC13	Digital Systems and Applications	20	Sannak Dutta Roy	Offline
22.05.2022	II (Hon)	CC3	Electricity and Magnetism	10	Bipan Dutta	Offline

STUDENTS UNDERTAKING PROJECT WORKS ON: ENVIRONMENTAL STUDIES

SEMESTER: II, SESSION: 2022-2023

Sl No	Name of the Student	Registration no (University of Calcutta)	Title of the Project	Name of the Supervisor
1	Junali Phangchoo	513-1211-0420-22	Flora & Fauna	Ananya Kumar Kundu
2	Sayan Halder	513-1112-0314-22	Biodiversity	
3	SK Suhaib	513-1111-0386-22	Eco-System	

STUDENTS UNDERTAKING PROJECT WORKS ON: ARDUINO

SEMESTER: IV, SESSION: 2022-2023

Sl No	Name of the Student	Registration no (University of Calcutta)	Title of the Project	Name of the Supervisor
1	Riya Mal	513-1212-0455-21	Project on Arduino	Ananya Kumar Kundu and Ipsita Sen
2	Ankur Halder	513-1111-0323-21	Project on Arduino	
3	Arindam Maity	513-1111-0411-21	Project on Arduino	
4	Rupak Kayal	513-1111-0420-21	Project on Arduino	
5	Daipayan Mondal	513-1111-0471-21	Project on Arduino	
6	Sunny Sarkar	513-111-0420-21	Project on Arduino	
7	Pronay Sardar	513-1112-0440-21	Project on Arduino	
8	Sumit Gupta	513-1111-0376-21	Project on Arduino	
9	Subhajit Harlder	513-1112-0383-21	Project on Arduino	

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SANSKRIT

DEPARTMENT OF SANSKRIT
Continuous Internal Evaluation (CIE)
Academic Session – 2022 – 2023

Date of internal evaluation	Semester	Course	Topic	Full Marks	Taken by	Pattern of question
21.3.2023.	VI	DSE B4	বৈদিক সাহিত্য	10	S.B.	S.Q.
28.2.2023.	VI	CC14	গদ্যকাব্য	20	R.S.	S.Q.
17.3.2023.	VI	CC12	তর্কসংগ্রহ	10	P.S.B.	S.Q.
22.3.2023.	VI	CC11	গদ্যকাব্য	10	R.S.	S.Q.
29.3.2023.	VI	CC13	ধর্মশাস্ত্র	15	R.S.	S.Q.

DEPARTMENT OF SANSKRIT
Continuous Internal Evaluation (CIE)
Academic Session – 2022 – 2023

Date of internal evaluation	Semester	Course	Topic	Full Marks	Taken by	Pattern of question
8.9.2022.	III	CC5	আধুনিকসাহিত্যের	10	P.S.B.	B.Q.
9.11.2022.	III	CC5	প্রবন্ধসাহিত্যের	15	S.B.	S.Q.
21.11.2022.	III	Surprise Test	গদ্যকাব্য	10	R.S.	S.Q.
28.9.2022.	I	Surprise Test	গদ্যকাব্য	10	R.S.	S.Q.
2.12.2022.	I	CC1	ন্যায়সিদ্ধান্তের	10	P.S.B.	S.Q.
6.12.2022.	I	CC1	বস্তুনিরূপণ	10	S.B.	S.Q.
30.8.2022.	V	CC13	ধর্মশাস্ত্র	15	R.S.	S.Q.
1.12.2022.	V	CC11	প্রেম	20	P.S.B.	B.Q.
3.12.2022.	V	CC11	ভূয়োদর্শনসাহিত্য	20	S.B.	B.Q.
4.4.2023.	II	CC4	গীতা	10	S.B.	S.Q.
6.4.2023.	II	CC3	শুকনাসোপদেশ	15	P.S.B.	B.Q.
11.4.2023.	II	Surprise Test	গদ্যকাব্য	10	R.S.	S.Q.
25.4.2023.	II	CC4	গীতা	15	S.B.	B.Q.
8.5.2023.	II	Surprise Test	গদ্যকাব্য	10	P.S.B.	S.Q.
23.5.2023.	II	CC4	গীতা	10	R.S.	B.Q.
16.3.2023.	IV	CC9	প্রাচীন কবি		P.S.B.	B.Q.
21.3.2023.	IV	CC8	অভিজ্ঞান শকুন্তলম্	15	R.S.	S.Q.
29.3.2023.	IV	CC10	আধুনিক সাহিত্য	10	S.B.	B.Q.
5.4.2023.	IV	Sec B2	গদ্যকাব্য	10	R.S.	S.Q.
12.4.2023.	IV	CC10	আধুনিক সাহিত্য	10	S.B.	S.Q.
10.5.2023.	IV	Sec B2	গদ্যকাব্য	15	P.S.B.	P.S.B.

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Continuous Internal Evaluation (CIE)

Academic Session – 2021 – 2022

Date of internal evaluation	Semester	Course	Topic	Full Marks	Taken by	Pattern of question
8.10.2021.	I	CC1	রঘুবংশম্	10	S.B.	B.A.
16.1.2021.	I	CC1	কুমারসম্ভবম্	10	R.S.	S.A.
16.1.2021.	I	CC2	বেদসাহিত্যের ইতিহাস	15	P.S.B.	S.A.
18.1.2021.	I	CC1	রঘুবংশম্	10	S.B.	S.A.
16.9.2021.	III	CC5	শব্দব্যাপারপরিচ্ছেদ	15	P.S.B.	B.A.
7.9.2021.	III	CC5	সংস্কৃত নাটক	10	R.S.	S.A.
23.9.2021.	III	CC5	অলঙ্কারসর্বস্বম্	15	S.B.	B.A.
2.12.2021.	III	CC6	রসমঞ্জরী	10	S.B.	S.A.
2.12.2021.	III	CC7	দণ্ডনীতি	20	R.S.	B.A.
8.9.2021.	V	CC11	বেদের ইতিহাস	20	P.S.B.	B.A.
30.9.2021.	V	CC11	সমুদ্রমন্থন কথা	10	P.S.B.	S.A.
8.10.2021.	V	DSEA1	ঈশ্বরকৃষ্ণকারিকা	10	R.S.	B.A.
16.11.2021.	V	DSEB1	ন্যায়দর্শন	15	S.B.	S.A.
5.4.2022.	II	CC3	শুকনাসোপদেশঃ	10	P.S.B.	S.A.
6.4.2022.	II	CC4	গীতা	15	S.B.	S.A.
11.4.2022.	II	CC4	গীতা	10	R.S.	S.A.
20.4.2022.	II	CC3	সংস্কৃত নাটক	20	R.S.	S.A.
3.5.2022.	IV	CC8	অলঙ্কারসূত্র	10	R.S.	S.A.
10.5.2022.	IV	CC9	সিদ্ধান্তকৌমুদী	15	S.B.	S.A.
12.5.2022.	IV	CC10	কাব্যপ্রকাশ	10	P.S.B.	S.A.
30.5.2022.	IV	CCeeB2	ন্যায়দর্শন	10	R.S.	S.A.

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Continuous Internal Evaluation (CIE)
Academic Session – 2020 – 2021

Date of internal evaluation	Semester	Course	Topic	Full Marks	Taken by	Pattern of question
17.12.2020	I	CC 1	[illegible]	10	S.B.	S.B.
20.12.2020	I	CC 2	[illegible]	15	P.S.B.	B.B.
22.12.2020	I	CC 1	[illegible]	10	R.S.	S.B.
15.1.2021.	I	CC 2	[illegible]	10	P.S.B.	S.B.
26.9.2020.	III	CC 5	[illegible]	15	R.S.	S.B.
6.9.2020.	III	CC 5	[illegible]	10	P.S.B.	B.B.
16.10.2020.	III	CC 6	[illegible]	15	R.S.	S.B.
3.10.2020.	III	CC 7	[illegible]	10	P.S.B.	S.B.
5.1.2021.	III	CC 6	[illegible]	10	S.B.	S.B.
26.2.2021.	III	CC 6	[illegible]	15	S.B.	S.B.
12.2021.	V	[illegible]	[illegible]	10	S.B.	B.B.
6.2.2021.	V	CC 11	[illegible]	15	S.B.	S.B.
16.4.2021.	II	CC 4	[illegible]	10	S.B.	S.B.
16.4.2021.	II	CC 3	[illegible]	10	P.S.B.	S.B.
6.5.2021.	II	CC 3	[illegible]	15	R.S.	S.B.
15.7.2021.	II	CC 4	[illegible]	10	R.S.	B.B.
11.5.2021.	IV	CC 9	[illegible]	15	S.B.	B.B.
10.5.2021.	IV	CC 9	[illegible]	10	P.S.B.	S.B.
19.4.2021.	IV	Sec B 2	[illegible]	10	R.S.	S.B.
15.6.2021.	IV	CC 9	[illegible]	15	R.S.	B.B.
29.6.2021.	IV	Sec B 2	[illegible]	10	R.S.	S.B.
12.4.2021.	VI	DSE A 3	[illegible]	10	P.S.B.	S.B.
12.4.2021.	VI	DSE A 3	[illegible]	15	R.S.	B.B.

DEPARTMENT OF SANSKRIT
Continuous Internal Evaluation (CIE)
Academic Session – 2021 - 2022

Date of internal evaluation	Semester	Course	Topic	Full Marks	Taken by	Pattern of question
11.4.2022.	VI	CC 13	[illegible]	10	R.S.	S.B.
12.4.2022.	VI	DSE B 4	[illegible]	15	S.B.	B.B.
17.5.2022.	VI	CC 13	[illegible]	10	P.S.B.	S.B.
26.5.2022.	VI	CC 14	[illegible]	10	R.S.	S.B.

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SOME DOCUMENTS OF ENTRY LEVEL ASSESSMENTS FOR FIRST SEMESTER STUDENTS

KOLKATA-700 075

Ref. No. .....

Date 03.07.2019

NOTICE

A meeting of the Academic Sub-committee will be held on **11. 07. 2019 (Thursday)** in IQAC room at **12.30 P.M** to discuss the following agenda:

1. **Commencement of Classes in the new academic session 2019-20.**
2. **Recruitment of Guest Teachers.**
3. **Annual calendar of the college for 2019-20.**
4. **Annual work diary for the staff.**
5. **Entry level assessment test for the 1st Semester students.**
6. **Innovative teaching process, if any.**
7. **Attendance percentage of students.**
8. **Subject wise academic calendar.**
9. **Interdisciplinary lecture series.**
10. **Schedule of Orientation Programmes.**
11. **Progress of publication of College Magazine.**
12. **Miscellaneous.**

All members of Academic Sub-committee are earnestly requested to be present at the meeting positively. Thanking you,

S. Palchaudhuri
Principal

Convenors :

1. Saman Gangopadhyay 3.7.19
2. Sumita Das 03/07/19.
3. Sumanta Halder 03.7.19

[Academic Sub-committee]

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Resolutions Adapted in the of Meeting Held on 11.07.2019 (Thursday) at 12:30 PM

1. It has been adapted that 1st semester, 3rd semester and 3rd year classes will commence on 22.07.2019. The departmental routines are to be submitted by the HODs to the respective conveners by 16.07.2019.
2. The guest lecturers who taught in the previous academic year, i.e., 2018-19, will continue in this academic year also. The HODs are to submit their requirements of new guest lecturers along with their routines to the Principal.
3. The Annual Calendar of the college will be included in the Prospectus andwill not be printed separately.
4. The Work Diary for the teachers for the academic year 2019 – 20 will be prepared.
5. All the departments must arrange Entry Level Assessment Test (MCQ) for the 1st semester students before 15.08.2019 and publish the results by 31.08.2019. On the basis of this result, two student groups will be formed, viz., Advanced Learners and Weaker Learners. These students will be mentored and for the Weaker Learners remedial coaching will be arranged.
6. Innovative teaching processes, like student seminar, educational tour, skill enhancement courses, should be arranged.
7. The attendance percentage of the students should be published at a regular interval, so that the students are aware of their attendance percentage and take steps to improve the same.
8. All the departments should publish semester wise academic calendars.
9. Like previous years, inter-disciplinary lectures should be arranged.
10. In the beginning of the new academic year, all the departments should arrange orientation programmes for the incoming 1st semester students so that they become aware of the facilities of the college.
11. The magazine committee members are requested to make arrangements for the publication of the college magazine.
12. In miscellaneous agenda, teachers in the Academic Council requested the Principal to arrange early availability of the subject wise student attendance register from the office.

The meeting ended with vote of thanks.

Sumita Das 11/07/19

[Convenor, Academic Sub-committee]

S. Palchaudhuri 11.07.19

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E.M. Bypass, Baghajatin
Kolkata-700094

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CHEMISTRY

Sammilani Mahavidyalaya

Department of Chemistry : Entry Level Test, 2019

Name : .....Roll No.....I.D. No.....

Mark the appropriate answer : (1 X 20 = 20)

1. Which of the following contains highest no. of unpaired electron?

   a) Fe^{2+} b) Cr^{3+} c) Fe^{3+} d) Co^{2+}

2. Which is non reducing sugar?

   a) Glucose, b) Galactose, c) maltose, d) Sucrose

3. Common oxidation state of Lanthanoids is-

   a) +1, b) +2, c) +3, d) +4

4. Lucas reagent is used to distinguish between

   a) alcohols, b) aldehydes, c) carboxylic acids, d) amines

5. Which of the following can't be hydrolysed?

   a) NF_3, b) NCl_3, c) PCl_3, d) PF_3

6. Which one of the following set of quantum no. is correct?

   a) (2,0,1,1/2) b) (2,2,1,1/2) c) (2,1,1,-1/2) d) (2,1,2,1/2)

7. Distillation with conc. H_2SO_4 and acetone gives :

   a) Benzene, b) Mesityl oxide, c) Mesitylene, d) Phoron

8. How many electrons are possible for l=3 and n=4

   a) 10 b) 12 c) 14 d) 16

9. What amount of current is to be passed to deposit 1 mol Al from $AlCl_3$

   a) 0.33F, b) 1F, c) 3F, d) 1.33F

10. Physical adsorption is

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a) Irreversible, b) Reversible, c) Both a & b, d) None of these

11. Second ionization enthalpy will be highest for

a) Mn b) Ni c) Cr d) V

12. Which one of the Xe compound has highest no. of lone pairs

a) XeF_2 b) XeO_3 c) XeF_4 d) XeF_6

13. The conjugate base of HS^- will be

a) H_2S b) S^{2-} c) HS^{2-} d) all of them

14. Oxidation no. of N in NH_2OH is

a) -1 b) +2 c) +3 d) +4

15. Methyl magnesium chloride reacts with ware to give

a) Methane b) Ethane c) Methyl alcohol d) Methanal

16. n-propyl bromide reacts with KOH & Ethanol to give

a) Propene b) Propane c) Propyne d) Propanol

17. Ratio of diffusion rate for He and CH_4 will be

a) 4 b) 2 c) 1 d) 3

18. By increasing temperature , viscosity of a liquid

a) Increases b) decreases c) remains same

19. How many isomers are possible for tartaric acid [$COOH - (CHOH)_2-COOH$]

a) 1 b) 2 c) 3 d) 4

20. Which of the following does not react with $NaHCO_3$ to produce CO_2

a) Benzoic acid, b) Phenol, c) 2,4,6-tri nitro phenol, d) 2,4-di nitro phenol

a) XeF_2 b) XeO_3 c) XeF_4 d) XeF_6

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a) Benzoic acid, b) Phenol, c) 2,4,6-tri nitro phenol, d) 2,4-di nitro phenol

21. In Rimer-Tieman reaction which of the following intermediate is formed

a) Carbocation b) Carbene c) Nitrene d) Carbanion

22. C-2 epimer of D-glucose is

a) D-Galactose b) L-Glucose c) D-Manose d) D-Gulose

23. Due to lanthanide contraction which of the following pair has same atomic radius

a) La-Lu b) La-Hf c) Hf-Zr d) Sc-Ti

24. Which of the following pair show positive deviation from Raoult's Law

a) Acetone-Chloroform b) Water-Ethanol c) HCl-Water d) Water-Nitric Acid

25. No of atoms per unit cell for a face centered cubic lattice

a) 1 b) 2 c) 3 d) 4

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COMPUTER SCIENCE

@SMV/COMP.SC/1ST SEM/MAJOR/Entry Level Test/2022

Sammilani Mahavidyalaya
Department of Computer Science
Entry Level Exam-2022
Branch- CMSM
Sem- 1
Date:-28/9/2022

Name: _____

email id: _____

Let A = {1, 2, 3} and consider the relation R = {(1, 1), (2, 2), (3, 3), (1, 2), (2, 3), (1,3)}. Then R is
(a) reflexive but not symmetric
(b) reflexive but not transitive
(c) symmetric and transitive
(d) neither symmetric, nor transitive

If A and B are two matrices of the order 3 × m and 3 × n, respectively, and m = n, then the order of matrix (5A – 2B) is
(a) m × 3
(b) 3 × 3
(c) m × n
(d) 3 × n

If A is a skew-symmetric matrix, then A^2 is a
(a) Skew symmetric matrix
(b) Symmetric matrix
(c) Null matrix
(d) Cannot be determined

Given that A is a square matrix of order 3 and |A| = -4, then |adj A| is equal to
(a) -4
(b) 4
(c) -16
(d) 16

If $y = ax^2+b$, then dy/dx at x = 2 is equal to
(a) 2a
(b) 3a
(c) 4a
(d) None of these

If x^y, y^x= 16, then dy/dx at (2, 2) is
(a) 0
(b) 1
(c) -1
(d) None of these

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Fit to page

The function f(x) = x + cos x is
(a) Always increasing
(b) Always decreasing
(c) Increasing for a certain range of x
(d) None of these

Area bounded by the curve y = sin x and the x-axis between x = 0 and x = 2π is
(a) 2 sq. units
(b) 3 sq. units
(c) 4 sq. units
(d) None of these

What is the degree of differential equation $(y''')^2 + (y'')^3 + (y')^4 + y^5 = 0$?
(a) 2
(b) 3
(c) 4
(d) 5

The scalar product of 5i + j – 3k and 3i – 4j + 7k is:
(a) 15
(b) -15
(c) 10
(d) -10

A dice is thrown. The probability of getting odd numbers is
(a) 1/2
(b) 3/2
(c) 3
(d) 4

A bag has 3 red marbles and 5 green marbles. If we take a marble from the bag, then what is the probability of getting red marbles only?
(a) 3
(b) 8
(c) 3/8
(d) 8/3

What happens when the light is refracted into a medium?
(a) Both frequency and wavelength of the light increase
(b) The wavelength increases but the frequency remains unchanged
(c) Both wavelength and frequency decrease
(d) The wavelength decreases but the frequency remains constant

In a p-type semiconductor, the current conduction is due to
(a) Holes
(b) Atoms
(c) Electrons
(d) Protons

Which of the following is non-ohmic resistance?
(a) Lamp filament
(b) Copper wire
(c) Carbon resistor
(d) Diode

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EDUCATION

ENTRY LEVEL TEST RESULT (SEM-1)
DEPARTMENT OF EDUCATION

Name	Roll number	Marks
Shreya Mondal	2	21 / 25
Ananda Sarkar	3	23 / 25
Puja sarkar	9	25 / 25
Shila mistry	11	16 / 25
Hira Mondal	12	23 / 25
Supratik Bramaharya	31	21
Pradipta Kumar Laha	36	23 / 25
Dipa mandal	44	15 / 25
Sampa Mondal	53	17 / 25
Somlata Som	69	21 / 25
Rakib Sardar	140	17 / 25
Abhoy das	141	25 / 25
Bankim Chandra Mondal	206	21 / 25
Nikita Show	221	17
Najmul sekh	232	19 / 25
Payel Mandal	238	16 / 25
Arghya Mondal	241	19 / 25
Sneha Ray	250	17 / 25
Rikita Mondal	256	11
Arun Saha	260	23 / 25
Sumona Sardar	265	17 / 25
Kuheli naiya	268	14 / 25
Sukanya Paul	277	22
Puja Rani Dash	289	19 / 25
Sabir molla	320	25 / 25
Tabassum Laskar	335	5
Kankana Ghosh	348	24 / 25
Mousumi Kayal	355	11
Koyel Sardar	395	23 / 25
Samata Ghosh	414	21 / 25
Tamasa mukherjee	443	17 / 25
Shuvo sinha	457	13 / 25
Ankita Mondal	465	21 / 25
Sanjib Dey	472	25 / 25
Banashri halder	493	24 / 25
Arnab Sanfui	521	19 / 25
Sayani Mondal	536	15
Pritam Dey		22

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MATHEMATICS

Sammilani Mahavidyalaya

ENTRY LEVEL ASSESSMENT TEST, 2018 – 19

B.Sc, 1st year, Mathematics Honours

Time : 1 hour

Marks: 20

Place [√] marks against right answer:

1. If A and B are two subsets of a set X, then $[A \cap (X - B) \cup B$ us equal to
   a) $A \cup B$ b) $A \cap B$ c) A d) B

2. $If\ B \subset A\ then\ B^c - A^c =$
   a) B b) A c) $B \setminus A$ d) $A \setminus B$

3. If $\rho = \{(x, y): x, y$ are integers such that $x - y$ is divisible by 5, then ρ *is*
   a) Not a relation b) an antisymmetric relation c) an equivalence relation
   d) a relation which is not reflexive

4. The mapping $f: R \to R$ given by $f(x) = x^2$ is
   a) One-to-one and onto
   b) One-to-one but not onto
   c) Neither one-to-one nor onto
   d) Onto but not one-to-one

5. If $a_{i,j} = 1$ for all i, j then rank of A is
   a) 0 b) 1 c) number of rows of A d) number of columns of A

6. The matrix $A=\begin{bmatrix} 0 & \alpha \\ \beta & 0 \end{bmatrix}$ and $A^3 + A = O$,
   a) $\alpha\beta = 2$ b) $\alpha\beta = 1$ c) $\alpha\beta = -1$ d) $\alpha\beta \neq 0$

7. If A is a 2×2 non-singular square matrix, then adj($adjA$) is
   a) A^2 b) A c) A^{-1} d) A^{-2}

8. The number $\frac{(1-i)^3}{1-i^3}$ where $i = \sqrt{-1}$, is equal to
   a) i b) $-i$ c) - 1 d) - 2

9. Which of the following is not a fourth root of unity ?
   a) - 1 b) $-i$ c) ω^2 d) ω^6

10. For the hyperbola $3x^2 - y^2 = 4$, the eccentricity is
    a) 1 b) 2 c) - 2 d) - 1

11. If the line $3x + 4y - p = 0$ is a tangent to the circle $x^2 + y^2 = 64$, then the value of p is
    a) ± 8 b) ± 10 c) ± 40 d) ± 16

12. The value of h for which $2x^2 - 2hxy + 3y^2 = 0$ represents a pair of coincident lines, are
    a) $\pm\sqrt{6}$ b) ± 6 c) ± 3 d) ± 2

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13. The value of p for which the vectors $\hat{\imath} + 3\hat{\jmath} - 2\hat{k}$, $2\hat{\imath} - \hat{\jmath} + 4\hat{k}$ and $3\hat{\imath} + 2\hat{\jmath} + p\hat{k}$ are coplanar, is

a) 2 b) 4 c) 5 d) 8

14. A vector makes an angle $\frac{\pi}{3}$ with the x-axis and also with the y – axis. Then with z-axis, the vector makes an angle of

a) 30^o b) 45^o c) 60^o d) 90^o

15. The unit vector perpendicular to each of $2\hat{\imath} - \hat{\jmath} + \hat{k}$ and $3\hat{\imath} + 4\hat{\jmath} - \hat{k}$ is

a) $\frac{(5,3,0)}{\sqrt{34}}$ b) $\frac{(3,-1,1)}{\sqrt{11}}$ c) $\frac{(6,-4,-1)}{\sqrt{53}}$ d) $\frac{(-3,5,11)}{\sqrt{155}}$

16. The domain of the function $f(x) = \sqrt{25 - x^2}$ is

a) $(-\infty, -5)$ b)$[\ -5, 5\ ]$ c) $(5, +\infty)$ d) $(-5, 5)$

17. If $f: R \to R$ be defined by $f(x) = 1, \quad if\ x\ is\ rational$
$= 0, \quad if\ x\ is\ irrational$

Then f is continuous at

a) All rational points
b) All irrational points
c) all real points
d) no real point

18. If $\lim_{x\to 0} \frac{\log(3+x) - \log(3-x)}{x} = k$, the value of k is

a) 0 b) - 1/3 c) 2/3 d) - 2/3

19. Let $f(x) = \frac{\propto x}{x+1}$, $x \neq 1$. Then for what value of $\propto$ *is* $f\{f(x)\} = x$?

a) $\sqrt{2}$ b) $-\sqrt{2}$ c) 1 d) -1

20. The function $f(x) = \log(x + \sqrt{x^2 + 1})$ is

a) Odd b) even c) neither even nor odd d) periodic

Sammilani Mahavidyalaya

Department of Mathematics

Entry level Assessment test for 1st Semester,

Mathematics major, 2022

Group A

Answer all questions and put a tick mark() to the correct one

1. The amplitude of the complex number $i(-1 + i)$ is

(a) $\frac{\pi}{4}$ (b) $\frac{-\pi}{4}$ (c) $\frac{3\pi}{4}$ (d) $\frac{-3\pi}{4}$

2. If A and B are two matrices of same order, then which of t he following is true?

(a) $det\ det\ (AB) \neq det\ (BA)$ (b) $det\ det\ (AB) = det\ (BA)$

(c) $det\ det\ (AB) \neq det\ det\ (A)\ det\ det\ (B)$ (d) $det\ det\ (A + B) = det\ det\ (A) + det\ (B)$

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3. If A, B, C are subsets of the universal set S and if $A \cup B = AUC$ and $A' \cup B = A'UC$, then which one is true?

(a) $A' = B$ (b) $A = C$ (c) $B' = C$ (d) $B = C$

4. A function $f(x) = |x|$ is

(a) discontinuous everywhere (b) continuous everywhere

(c) continuous at $x = 0$ (d) discontinuous at $x = 0$

5. Find the domain of definition $\frac{1}{\sqrt{(x-2)(3-x)}}$ is

(a) $2 < x < 3$ (b) $2 \leq x \leq 3$ (c) $2 < x \leq 3$ (d) $2 \leq x < 3$

6. The order and degree of the differential equation $\frac{d^2y}{dx^2} + \sqrt{\left(\left(\frac{dy}{dx}\right)^3 + 2\right)} = 0$ are respectively

(a) 1,2 (b) 2, 1 (c) 2,2 (d)1,1

7. The angle between the lines represented by $x^2 - 2xy - y^2 + 2x + 3y - 1 = 0$ is

(a) $\frac{1}{2}$ (b) $\frac{1}{4}$ (c) $\frac{\pi}{2}$ (d) $\frac{\pi}{4}$

8. If $\vec{a} = 2\hat{\imath} + 3\hat{\jmath} - 4\hat{k}$ and $\vec{b} = 5\hat{\imath} + 2\hat{\jmath} + 4\hat{k}$ then the angle between $\vec{a}$ and $\vec{b}$ is

(a) 45^0 (b) 60^0 (c) 90^0 (d) 180^0

9. A coin tossed 2 times in succession. The probability of one head is

(a) $\frac{1}{4}$ (b) $\frac{3}{4}$ (c) $\frac{1}{2}$ (d) $\frac{2}{3}$

10. Find the median of the given data 3, 8, 4,5, 9,13

(a)5 (b) 8 (c) 6.5 (d) 5.5

Group B

Answer any one question

11. a) Find the unit vector perpendicular to both the vectors $2\hat{\imath} + \hat{\jmath} - 3\hat{k}$ and $\hat{\imath} - 3\hat{\jmath} + 5\hat{k}$.

b) If $A = (0\ 1\ 0\ 0\ 0\ 1\ 1\ 0\ 0)$, then find the rank of $A + A^2 + A^3$. 2+3

12. a) Find the equation of straight lines through the origin which makes angle of 45° with the straight line $lx + my + n = 0$.

b) Check the continuity of $f(x) = \frac{x^2-2}{x-2}$ 0 $x \neq 2$ $x = 2$ at $x = 2$. 3+2

----------xxx----------

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MICROBIOLOGY

MICROBIOLOGY HONOURS

FIRST YEAR ASSESSMENT TEST 2018

Attempt all questions. Tick the right answer.

1. How many ATP molecules are obtained from fermentation of 1 molecule of glucose?

(A) 2 (B) 4 (C) 3 (D) 5 Ans : (A)

2. Number of nitrogenous bases in a Codon is

(A) 3 (B) 2 (C) 1 (D) 5 Ans : (A)

3. A character which is expressed in a hybrid is called

(A) Dominant (B) Recessive (C) Co-dominant (D) Epistatic Ans : (A)

4. In which stage of cell division chromosomes are most condensed?

(A) Prophase (B) Metaphase (C) Anaphase (D) Telophase Ans : (B)

5. The Genetic deficiency of ADH-receptor leads to
(A) Diabetes mellitus (B) Glycosuria (C) Diabetes Insipidus (D) Nephrogenic Diabetes Ans : (D)

6. Genetically engineered bacteria are being employed for production of

(A) Thyroxine (B) Human insulin (C) Cortisol (D) Epinephrine Ans : (B)

7. Scientific name of sunflower is

(A) Hibiscus rosa-sinensis (B) Solanum nigram (C) Oryza sativa (D) Helianthus annus Ans : (D)

8. By which of the following methods, new and better varieties of plants can be formed?

(A) Selection (B) Grafting (C) Hybridization (D) Hybridization followed by selection Ans : (D)

9. Electron microscope is based on principle of:

(A) Electromagnetic theory (B) Resolution of glass lenses (C) Magnification of glass lenses (D) Refraction of light Ans : (A)

10. Citric acid cycle is the alternate name of which of the following?

(A) HMP shunt (B) Glycolysis (C) TCA cycle (D) Calvincycle Ans : (C)

11. Vascular tissue in higher plants develop from which of the following?

(A) Procambium (B) Protoderm (C) Periblem (D) Cortex Ans : (A)

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12. Which element is cause of etai etai disease?
(A) Hg (B) Pb (C) Cd (D) As
Ans : (C)

13. Chromosomes can be stained with one of the following chemicals?
(A) Acetocarmine (B) Safranine (C) Light green (D) Eosin
Ans : (A)

14. Which one of the following is the American Poultry breed?
(A) Australop (B) Minovca (C) Assel (D) Rhod Island Red
Ans : (D)

15. Which part of the human brain is largest :
(A) Cerebellum (B) Thlamus (C) Cerebrum (D) Medulla
Ans : (C)

16. When the other floral parts are arranged at the base of the gynoecium, the flower is called :
(A) Hypogynous flower (B) Perigynous flower (C) Epigynous flower (D) Agynous flower
Ans : (A)

17. Protein coat of virus is known as
(A) Capsid (B) Virion (C) Virioid (D) Bacterial wall
Ans : (A)

18. Net yield of aerobic respiration during Krebs' cycle per glucose molecule is :

(A) 2 ATP molecules (B) 8 ATP molecules (C) 36 ATP molecules (D) 38 ATP molecule
Ans : (A)

19. Identify the correct type of food chain :
dead animal >blow fly maggots > common frog > snake

(A) Grazing food chain (B) Detrital food chain (C) Decomposer food chain (D) Predator food chain
Ans
: (B)

20. Which is not applicable to the Biological species concept ?
(A) Hybridization (B) Natural population (C) Reproductive isolation (D) Gene Pool
Ans : (A)

21. DNA sequence that code for protein are known as —
(A) Introns (B) Exons (C) Control regions (D) Intervening sequences Ans. (B)

22. The resolving power of a compound microscope will increase with —
(A) decrease in wave length of light and increase innumerical aperture
(B) increase in wave length of light and decrease innumerical aperture
(C) increase in both wave length of light and numerical aperture
(D) decrease in both wave length of light and numerical aperture Ans : (A)

23. Osteomalacia is a disease caused by the deficiency of —
(A) Calciferol (B) Retinol (C) Tocopherol (D) Phylloquinone Ans : (A)

24. Collagen is a
(A) Phosphoprotein (B) Globulin (C) Derived Protein (D) Scleroprotein Ans : (D)

25. The "Repeating Unit" of glycogen is
(A) Fructose (B) Mannose (C) Glucose (D) Galactose

PHILOSOPHY

SURPRIZE TEST (SEM 1)

MCQ TEST for practice 09.01.2023

Total Marks: 24

NAME

JAYTISH GHOSH

C U Roll number

C U Reg. number

Who is the founder of Nyaya Philosophy?

- ○ kanad
- ◉ Gautam

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NAME	C.U Roll number	C	Who is the founder of Nyaya Philosophy?	How many Pramanas have been accepted by Nyaya-Vaisesik?	'This is a table' is a form of	Anumiti depends on	'This mango seem to be very	Through Samyukta Samavaya Sannikarsa	The third statement of Panchavay av Naya is
119 P JAYTISH GHOSH			Gautam	4	Sabkalpak Paramarsa	Gyanalaksa	Rup		Udaharan
143 P Kamalesh sardar	202		Gautam	4	Sabkalpak Vyapti Gya	Gyanalaksa	Rup		Udaharan
54 P Priyanka Kharka	211		kanad	3	Nirbikalpak Vyapti Gya	Gyanalaksa	dravya		Udaharan
33 P SOUMILI BHATTACHARYA	199		kanad	4	Sabkalpak Vyapti Gya	Gyanalaksa	dravya		Udaharan
50 P KOYEL PAHARI	1060		kanad	4	Sabkalpak Paramarsa	Gyanalaksa	dravya		Upanay
54 P Sanchita karmakar	207		Gautam	4	Sabkalpak Vyapti Gya	Gyanalaksa	dravya		Upanay
54 P Muntaha Halder	213		Gautam	4	Sabkalpak Vyapti Gya	Gyanalaksa	dravya		Upanay
11 P PRIYA SARKAR	212		Gautam	4	Sabkalpak Paramarsa	Gyanalaksa	dravya		Upanay
30 P RAKHA KHATUN	206		kanad	4	Sabkalpak Paramarsa	Gyanalaksa	Rup		Upanay
52 P SARMISTHA BHATTACHARYA	201		Gautam	4	Sabkalpak Vyapti Gya	Gyanalaksa	Rup		Upanay
52 P SHUVA NATH	205		Gautam	4	Sabkalpak Vyapti Gya	Gyanalaksa	Rup		Upanay
14 P MADHUSRIMA NASKAR	218		Gautam	4	Sabkalpak Vyapti Gya	Gyanalaksa	Rup		Upanay
47 P Madhusri Naskar	209		Gautam	4	Sabkalpak Vyapti Gya	Samanyata	dravya		Udaharan

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which one				
Hw many kinds of Padartha there are 3 statements in Swarthanu Swarthanu Paarthanu Paarthanu Swarthanu Swarthanu Swarthanu Swarthanu Swarthanu Swarthanu Swarthanu Paarthanu	of the following is not a part of dravya as per Vaisesika 7 paramanu 7 paramanu 7 paramanu 7 Atma 7 paramanu 7 Atma 7 Atma 6 paramanu 7 paramanu 7 paramanu 7 paramanu 7 paramanu 7 paramanu 6 paramanu	Throwing a ball from up to down is an example of abakkhepa abakkhepa abakkhepa utkhepan abakkhepa abakkhepa abakkhepa abakkhepa abakkhepa abakkhepa abakkhepa abakkhepa abakkhepa	Visesh padartha is ------ according to Vaisesika	5 5 5 5 5 5 4 5 5 5 5 5 4

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Supporting Documents: ICT in Teaching and Learning

The College has a Wi-Fi Enabled campus and ICT enabled classrooms The college has an automated Library with WEBOPAC facility, DELNET & NLIST for all, ensuring accessibility to e resources. The college has well-equipped laboratories in all Science departments and Commerce Department as well. Most of the teachers use ICT enabled tools as a part of the teaching–learning process. Use of PPTs, online interactive sessions, use of digital library adds to the use of ICT enabled technology. Some departments have also uploaded study materials, video or audio lectures, previous years' question papers digitally. Some departments also take internal tests through Google forms. Beyond usual college hours, many students also participate in vocational courses through online mode.

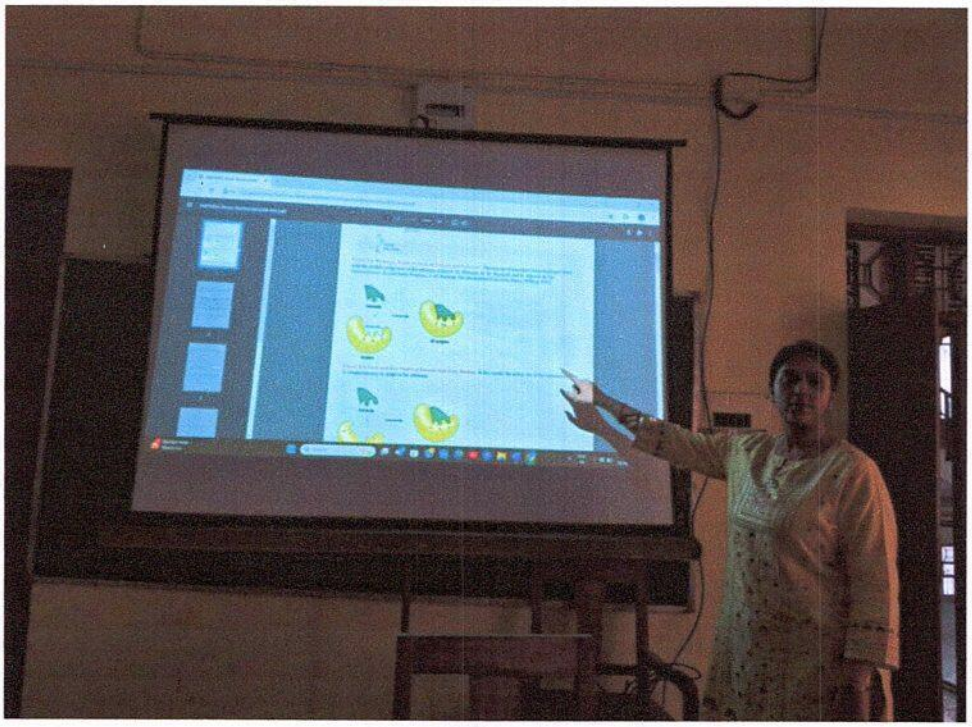
During pandemic the teachers were motivated and trained to conduct classes on online platforms like Google meet and Zoom and share materials in Google classrooms, WhatsApp groups and Telegram groups. The college also provided e resources to the teachers through the Library WEBOPAC during the pandemic period via Open Access Database, Open Access Educational Resources like NDLI (Nation Digital Library, India), DOAB (Directory of Open Access Books), e- Pathshala etc.

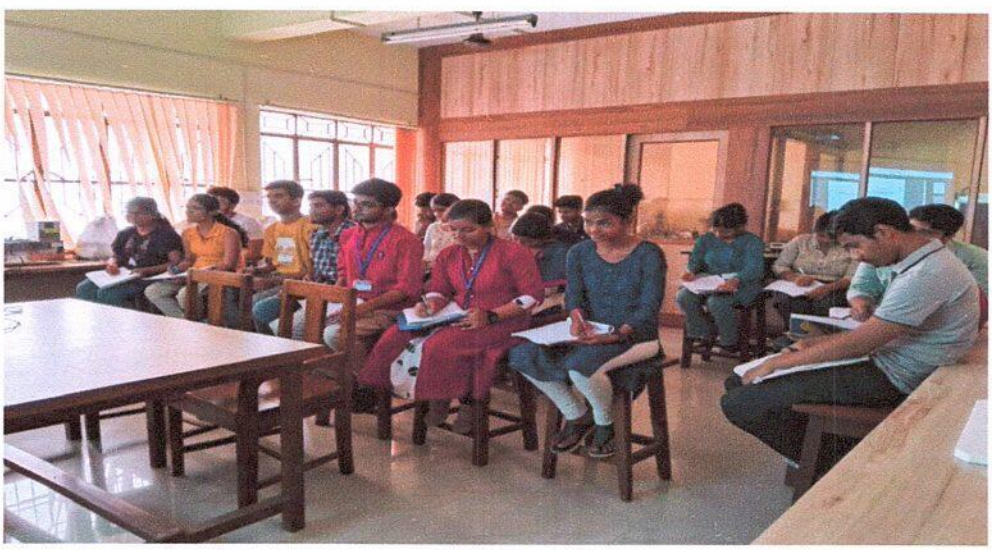
Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

USE OF ICT FACILITIES FOR TEACHING AND LEARNING

SMART CLASS ROOM FACILITIES OF COLLEGE

BOOST LABORATORY: DEPARTMENT OF MICROBIOLOGY





Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

SMART CLASS ROOM: ARTS FACULTY

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

SMART CLASS ROOM: DEPARTMENT OF GEORAPHY

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

SMART CLASS ROOM: DEPARTMENT OF MATHEMATICS

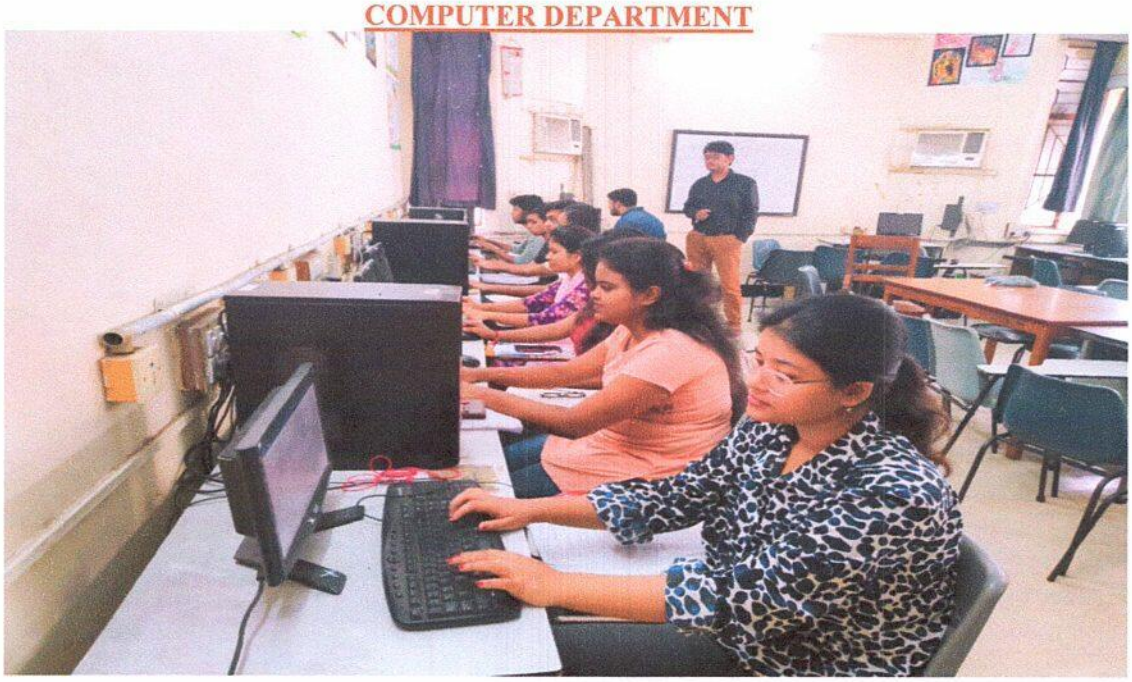
SMART CLASS ROOM: ARTS FACULTY

Principal
Sammilani Mahavidyalay
E.M.Bypass, Baghajat...
Kolkata - 700 094

STUDENTS AVAILING COMPUTER FACILIIES UNDER FACULTIES:

LIBRARY

COMPUTER DEPARTMENT



Principal
Sammilani Mahavidyala
E.M.Bypass, Baghajatin
Kolkata - 700 094

CAMPUS FACILITIES: Supporting Documents

Xlink Software Drome

A Complete Web and Software Solution Infocom (an SSI Unit)
Regd. Office: 39/2/2 NK Banerjee Street, Rishra, Hooghly, WB, 712250
Email: info@xlinkinfocom.com | Visit us: www.xlinkinfocom.com | Ph: 9836474518

Invoice

To
The Principal
Sammilani Mahavidyalaya
Baghajatin
EM Bypass
Kolkata – 700094

Invoice No : xlink/21-22/0065

Google GSuite Business Plan for 1 year

Date : 02/03/2022

Sl.No	Particulars	Amount (Rs.) 2022-23
1	• Google GSuite Business Plus Plan for 1 year for 1 user • Plan started from 2nd March 2022. • Plan is for 12 months • Account linked with gsuite@smvportal.in	**14985.00**
2	Service charge	**1270.00**
	Total	**16255.00**
	CGST @ 9%	1463.00
	SGST @ 9%	1463.00
	Sub Total	**19181.00**
Rupees Nineteen Thousand One Hundred Eighty One Only		

GSTN No : 19APNPP0740A1Z2
SAC Code : 998315

Authorised Signatory

Xlink Software Drome
(An SSI Unit)
Kolkata

ATTESTED

Principal
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin
Kolkata-700094

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

Sammilani Mahavidyalaya

Sl.No. 345

(NAAC ACCREDITED)
[AFFILIATED TO CALCUTTA UNIVERSITY]
E. M. BY PASS, BAGHAJATIN,
KOLKATA -700 094

Office Phone : 2462-6845
E-mail : principal.sammilani@gmail.c

Ref. No.....

Date 29/06/22

PURCHASE / WORK ORDER

To, Delnet, J.N.U. Campus,
Nelson Mandela Road, New Delhi-110070

Dear Sir,

With reference to your quotation / letter no. ~~X~~ dated ~~X~~, I am pleased to inform you tha your quotation / letter has been accepted and you are requested to supply the following items to commence work within 15 days from the date of purchase / work order to the department of College Supply of the said items / work will be strictly according to the specification and aqccording to the terms and conditions mentioned in the approved quotation. The payment will be made within 30 days approximately of your date of delivery and satisfactory installation / completion or work.

Thank you,

Yours sincerely,

Head,

Department of College

Teacher-In-Charge
Sammilani Mahavidyalaya (~~Dr. S. Paichaudhuri~~)
E.M. Bypass, Baghajatin,
Kolkata- 700 094

~~Principal~~ TIC

Sl. No.	Description / Specification of items	Sl. No.	Rate	Tax	Total Amount	Remarks
1	DELNET	01	@19,740/-		19,740/-	
	Including all Taxes					

- Payments will usually be made in A/C Payee Cheque after successful compliance of this purchase order.
- Deduction on account of Income Tax/ Sales Tax/ V A T will be applicable as per statute.
- Payment should be released on full compliance of Purchase Order and satisfactory installation of the items whenever necessary.
- Proforma bills/ invoice must be submitted to the office along with copies of quotation price, purchase order, ~~copies of~~ certificates.
- The price of any item mentioned in this order should not exceed the accepted price.

ATTESTED

Principal
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin
Kolkata-700094

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

Sammilani Mahavidyalaya

(NAAC ACCREDITED)
[AFFILIATED TO CALCUTTA UNIVERSITY]
BAGHAJATIN STN./ E. M. BY PASS
KOLKATA - 700 094

Office Phone : 2462-6869
Library : 2436-3919
E-mail :
info@sammilanimahavidyalaya.org

Ref. No.....

Date.....

e Teacher-in-Charge
ammilani Mahavidyalaya
ghajatin, E.M. Bypass
lkata-700094

Date: 29.06.2022

: New Membership of the DELNET (Developing Library Network) for the year 2022-3.

pected Madam,

losed here with please find out the proforma Invoice No.: 2022/52338, dated: 18th April 2022, he new membership of the **DELNET (Developing Library Network)** for the year 2022-3. DELNET is provided by various types of e-journals and e-books on different subjects ugh static IP.

may consider to new membership for one year. For new membership is to be paid of 19,470.00 **(Rupees Nineteen Thousand Four Hundred Seventy Only)** by demand draft is ful may kindly be done.

king you
s faithfully

Bapan Kumar Maity)
brarian
LIBRARIAN
ni Mahavidyalaya
ajatin Stn., Kol-94

ATTESTED
Principal
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin
Kolkata-700094

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

Sammilani Mahavidyalaya
(NAAC ACCREDITED B++)
[AFFILIATED TO CALCUTTA UNIVERSITY]
E. M. BYPASS, BAGHAJATIN,
KOLKATA - 700 094

Phone : 2462-6869
E-mail :
principal.sammelani@gmail.com
info@sammilanimahavidyalaya.org
Website :
www.sammilanimahavidyalaya.org

Ref.No.....

Date 04.07.2022

To
The Branch Manager
AXIS Bank
Baruipur Branch
Baruipur, South 24 Pgs.

Sub: Issuance of a Bank Draft [A/C No. 915010022995090, ID-844611173]

Dear Sir,
With reference to the above, you are requested to issue the following draft in favour of **"DELNET"** payable at **New Delhi,** by debiting to the subject account mentioned above:

1. **Amount= Rs. 19,470.00 (Rupees Nineteen Thousand Four Hundred Seventy Only).**

Please do the needful and oblige.

Thanking you,
Yours sincerely
Dr. Sharmila Chakraborty
(Teacher-In-Charge)
Teacher-in-Charge
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin
Kolkata-700094

ATTESTED
Principal
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin
Kolkata-700094

04/07/22

AXIS BANK LTD. BARUIPUR W.B.

M-19,470/-
Chq-335003
Dt- 30/06/22

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

Sammilani Mahavidyalaya

(NAAC ACCREDITED B++)
[AFFILIATED TO CALCUTTA UNIVERSITY]
E. M. BYPASS, BAGHAJATIN,
KOLKATA - 700 094

Phone : 2462-6869
E-mail :
principal.sammilani@gmail.com
info@sammilanimahavidyalaya.org
Website :
www.sammilanimahavidyalaya.org

Ref.No..... .....

Date 31.08.2021

To
The Branch Manager
AXIS Bank
Baruipur Branch
Baruipur, South 24 Pgs.

Sub: Issuance of a Bank Draft [A/C No. 915010022995090, ID-844611173]

(Cheque No- 334852 dt. 31.08.2021)

Dear sir,

With reference to the above, you are requested to issue the following draft in favour of **"INFLIBNET-NLIST Account"** payable at **Gandhinagar**, by debiting to the subject account mentioned above:

1. **Amount= Rs. 5,900.00 (Rupees Five Thousand Nine Hundred Only).**

Please do the needful and oblige.

Thanking you,
Yours sincerely
S. Palchaudhuri
Dr. S. Palchaudhuri
(Principal)

Principal
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin
Kolkata-700094

31/08/21

AXIS BANK LTD. BARUIPUR BRANCH

ATTESTED
Principal
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin
Kolkata-700094

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

Sammilani Mahavidyalaya

(NAAC ACCREDITED B++)

[AFFILIATED TO CALCUTTA UNIVERSITY]

E. M. BYPASS, BAGHAJATIN,

KOLKATA - 700 094

Phone : 2462-6869

E-mail :

principal.sammalani@gmail.com

info@sammilanimahavidyalaya.org

Website :

www.sammilanimahavidyalaya.org

Ref No.....

Date 07-09-2021

To

INFLIBNET Centre, Gandhinagar

An Inter University Centre of University Grants Commission,

Infocity, Opp. DAIICT,

Gandhinagar-382007

Gujarat, INDIA.

Sub: Dispatch of Demand Draft of Rs. 5,900.00 towards renewal of the N-LIST annual membership for the year 2021-2022(Apr-Mar).

Ref:-Your Proforma Invoice, dated 2021-08-25 09:46:03(Website).

No: INF/N-LIST/2021/6115

Sir/Madam,

I accept your proforma invoice dated *2021-08-25 09:46:03(Website).* Ref No: INF/N LIST/2021/6115 and sending a Demand Draft of Rs.5, 900.00(Rupees Five Thousand, Nine Hundred point Zero Zero Only) towards renewal of the N-LIST annual membership for the year2021-2022(Apr-Mar).

Enclosed herewith, please find out the D/D (No.013169; dated 01/09/2021 on AXIS Bank) and a copy of the Proforma Invoice.

An acknowledgement of the receipt of these items on your part at the earliest would be cordially welcomed.

Thank You.

Sincerely Yours

S. Palchaudhuri

(Dr. Santiranjan Palchaudhuri)

Principal

Sammilani Mahavidyalaya

E.M. Bypass, Baghajatin

Kolkata-700094

ATTESTED

Principal

Sammilani Mahavidyalaya

E.M. Bypass, Baghajatin

Kolkata-700094

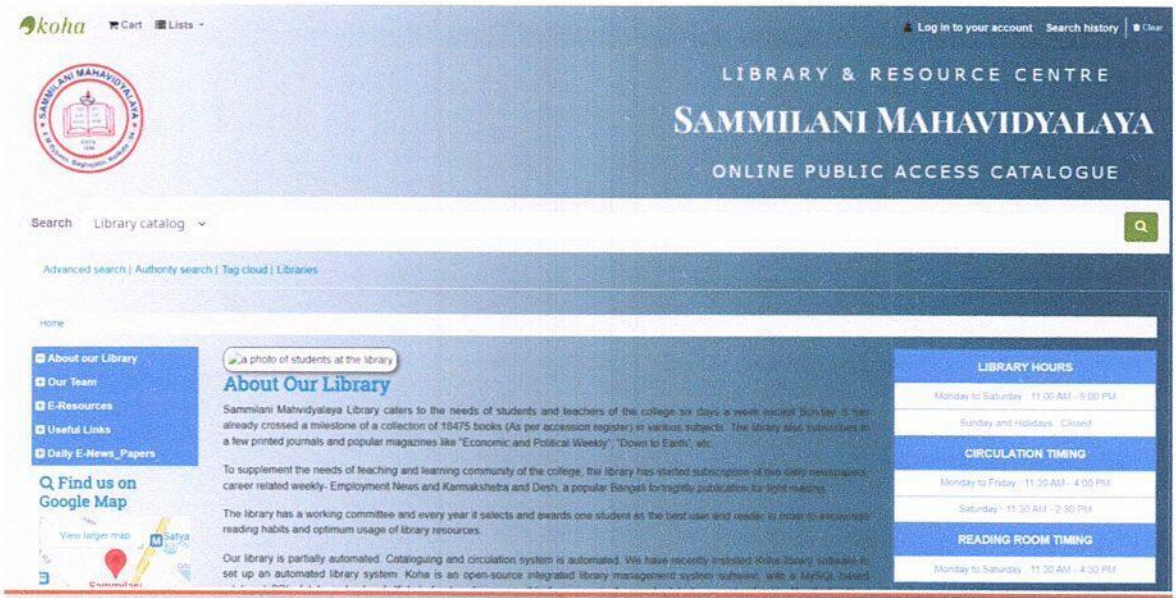
Principal

Sammilani Mahavidyalaya

E.M.Bypass, Baghajatin

Kolkata - 700 094

LIBRARY FACILTIES



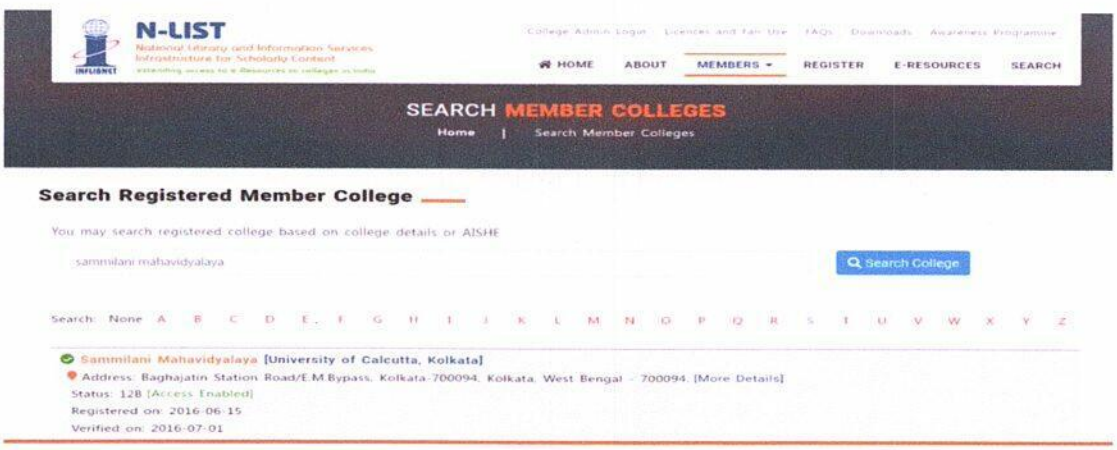
Our library is partially automated. Cataloguing and circulation system is automated. We have recently installed Koha library software to set up an automated library system. Koha is an open-source integrated library management system software, with a MySQL based relational SQL database backend. Koha's front end is accessible from any modern up-to-date browser (preferably Mozilla Firefox / Google Chrome). Once completed, this initiative would serve as the backbone of the smart Library. All the computers of the library are connected through LAN.

In consonance with this activity, an extension of computer access facility has been initiated with initial deployment of three personal computers for students as well as teachers. More would be added in the coming days.

Our 24*7 online library system & information services available in Web-based Online Public Access Catalogue (WEBOPAC) http://sammilani-opac.l2c2.co.in. The ultimate goal of this Web-based Online Public Access Catalogue (WEBOPAC) is to enable patrons to browse library collection online beyond the physical boundary of the college.Wi-Fi infrastructure has already been in place recently.

The library also aims at increasing the electronic footprint by subscribing to N-List, the UGC initiative of electronic and online journal consortium exclusively meant for colleges.

http://sammilani-opac.l2c2.co.in/



Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

USE OF AVAILABLE ONLINE PLATFORMS AND SOFTWARES BY FACULTIES FOR TEACHING

POWER POINT PRESENTATIONS:

GEOGRAPHY


weathering.ppt


Scale.pptx


Factors of Soil Formation (1).ppt


Physical Properties of Soil (1).ppt

MATHEMATICS


Basic statistics 1.pptx


ppt-1 - Probability Theory.pptx


Presentation C Programming.pdf


A Tour on SageMath.pptx.pdf


ppt-2 - Probability Distribution.pptx

MICROBIOLOGY


PPT on Cell signalling.pptx


other fermented foods.pptx


IPR - PPT.pptx


2-AUTOIMMUNE DISEASES ppt.ppt


1. Fermentation ppt.ppt


PD glycolysis.pptx

GOOGLE CLASS ROOM LINKS:

SEMESTER 1(NEP): https://classroom.google.com/c/NTg5MDE5ODAxNzM5?cjc=jd6z2zs

SEMESTER 4: https://classroom.google.com/c/NDk3NTg2NDcwODU4?cjc=x2lecs3

SEMESTER 6: https://classroom.google.com/c/NTI4MTIzODUyNjI5?cjc=4fb5nq3

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

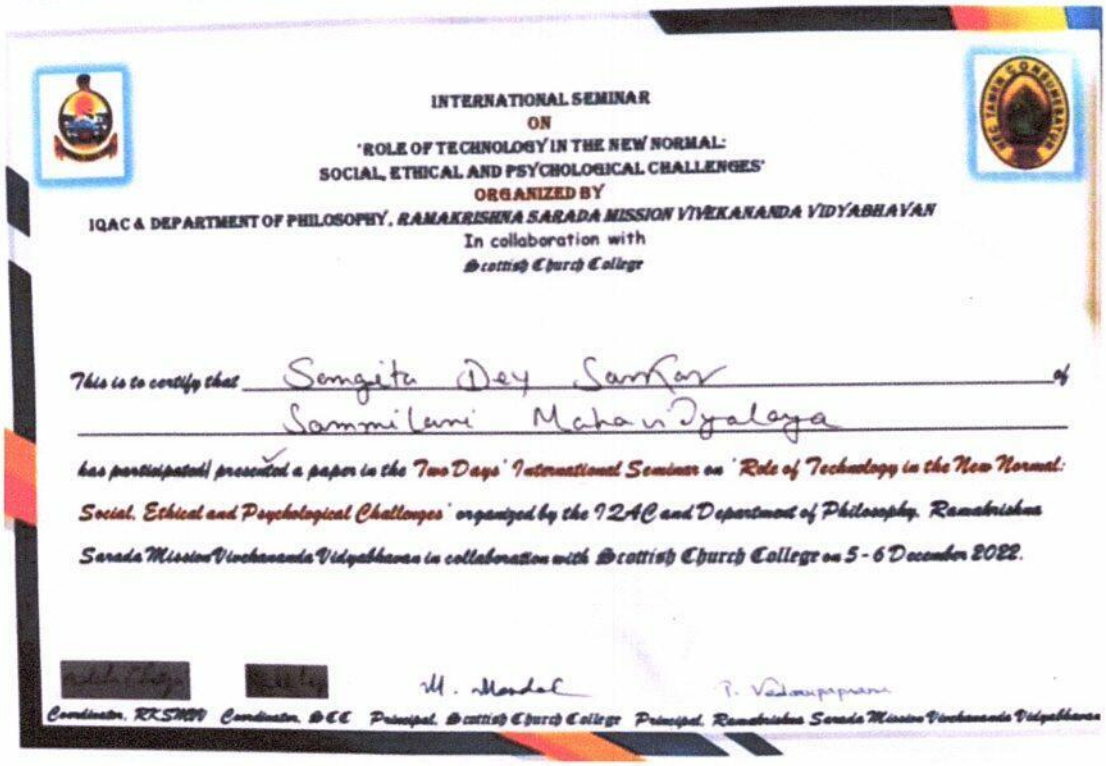
PHILOSOPHY

Copernican Hypothesis & A - Cop

E LEARNING MODULE:

https://sites.google.com/view/ranjit-shaw/e-learning-module?authuser=0#h.r8mqognxrmty

FACULTY PARTICIPATION FOR UPGRADATION



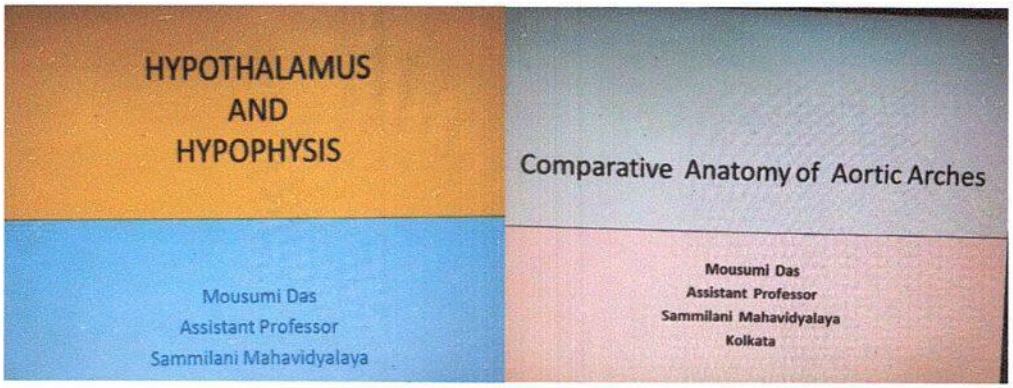
INTERNATIONAL SEMINAR
ON
'ROLE OF TECHNOLOGY IN THE NEW NORMAL:
SOCIAL, ETHICAL AND PSYCHOLOGICAL CHALLENGES'
ORGANIZED BY
IQAC & DEPARTMENT OF PHILOSOPHY, *RAMAKRISHNA SARADA MISSION VIVEKANANDA VIDYABHAVAN*
In collaboration with
Scottish Church College

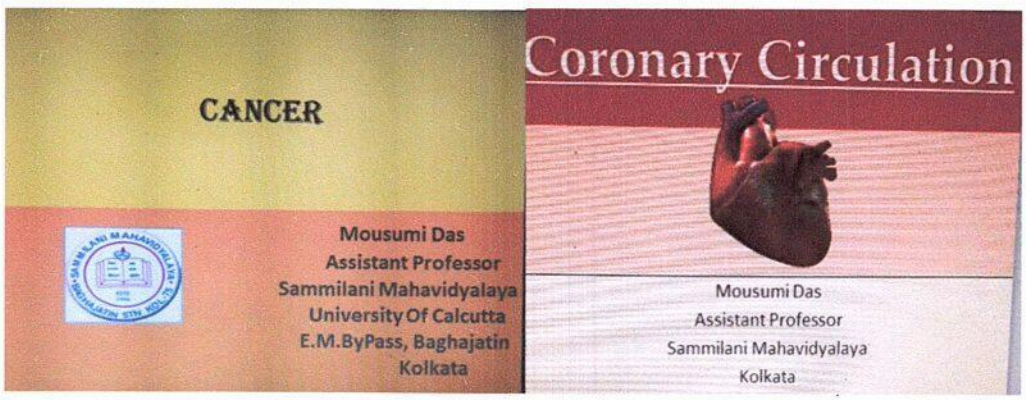
This is to certify that Sangita Dey Sarkar of Sammilani Mahavidyalaya has participated/ presented a paper in the Two Days' International Seminar on 'Role of Technology in the New Normal: Social, Ethical and Psychological Challenges' organized by the IQAC and Department of Philosophy, Ramakrishna Sarada Mission Vivekananda Vidyabhavan in collaboration with Scottish Church College on 5 - 6 December 2022.

Coordinator, RKSMVV | Coordinator, SCC | Principal, Scottish Church College | Principal, Ramakrishna Sarada Mission Vivekananda Vidyabhavan

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

ZOOLOGY





QR CODE FOR ACCESSING TELEGRAM CHANNEL

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094