

SERAMPORE GIRLS' COLLEGE

DEPARTMENT OF COMPUTER SCIENCE

DEPARTMENTAL REPORT

2024-2025

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1. Number of Students :-

| Year | Major | Minor |
|-------|-------|-------|
| SEM 1 | 17 | 00 |
| SEM 2 | 17 | 00 |
| SEM 3 | 06 | 02 |
| SEM 4 | 06 | 02 |
| SEM 5 | 05 | 00 |
| SEM 6 | 05 | 00 |

Total Number of Students – 28

2. No. of Teachers :-

| Full Time | SACT – I | SACT – II | TOTAL |
|-----------|----------|-----------|-------|
| | | 01 | 01 |

Guest Teacher – 01

Dr. Mayurakshi Nag from Dept. of Mathematics and Indrani Guha from Dept. of Electronic science take classes of Computer Science.

3. Student- Teacher ratio :- 4:1

4. Class Routine of the department for the academic session 2023-24 (Odd Semester)

| <p style="text-align: center;">Serampore Girls' College Routine Computer Science (ODD semester)-2024-25 (July-December, 2024)</p> | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|
| Day | SEM | 9:45-10:45 | 10:45-11:45 | 11:45-12:45 | 12:45-1:45 | 2:00-3:00 | 3:00-4:00 |
| Monday | I | ENVS (Major) NB 8 | CMSM(MG) NB 12 | CMSM(IG) VB 8 | | IDC | AEC |
| | III | | | | AEC | CMSM(MG) VB 8 | IDC |
| | V | | CMSA(GD) P LAB 1 | CMSA(GD) P LAB 1 | CMSA(GD) NB 12 | CMSA(GD) NB 12 | |
| Tuesday | I | | | CMSM(IG) VB 8 | | ENVS(MDC) (MN) NB 8 | AEC |
| | III | | | | | | |
| | V | | | | | | |
| Wednesday | I | | | | CMSM(MG) VB 8 | CVAC | ENVS(MAJOR) NB 8 |
| | III | | CMSM(P)(MG) NB 12 | CMSM(P)(MG) NB 12 | | | |
| | V | | | | | CMSA(MG) VB 8 | CMSA(MG) VB 8 |
| Thursday | I | CVAC | CMSM(P) IG VB 8 | CMSM(P) IG VB 8 | | | ENVS(MDC) (NC) NB 8 |
| | III | | CMSA (MG) VB 8 | CMSM(P)(MG) NB 12 | CMSM(P)(MG) NB 12 | IDC | |
| | V | | | | | CMSA(MG) VB 8 | CMSA(MG) VB 8 |
| Friday | I | AEC | CMSM(MG) NB 12 | | | IDC IDC | |
| | III | | | AEC | CMSA(MG) NB 12 | IDC | |
| | V | | | | | CMSA(MG) NB 12 | CMSA(MG) NB 12 |
| Saturday | I | | | CMSA(MG) NB 12 | | AEC | |
| | III | | | | CMSA(MG) VB 8 | | |
| | V | | CMSA(GD) VB 8 | CMSA(GD) VB 8 | CMSA(GD) NB 12 | CMSA(GD) NB 12 | |

Class Routine of the department for the academic session 2023-24 (Even Semester)

| SERAMPORE GIRLS' COLLEGE | | | | | | | |
|---------------------------------------------------|-----|------------|-----------------------------------|-----------------------------------|----------------------------------|----------------------------------------|-------------------|
| Routine –Computer Science (EVEN semester)-2024-25 | | | | | | | |
| Day | SEM | 9:45-10:45 | 10:45-11:45 | 11:45-12:45 | 12:45-1:45 | 2:00-3:00 | 3:00-4:00 |
| Monday | II | | | IDC Comp sc(MN) NB8 | AEC English | CMSM(MG) VB 8 | ENVS (MAJOR) NB 8 |
| | IV | | CMSM(MG) NB 12 MCMS (MG) NB 12 | CMSM(MG) NB 12 MCMS (MG) NB 12 | CMSM(MN) VB 6 | | |
| | VI | | CMSA(GD) VB 6 | CMSA(GD) VB 6 | CMSA(GD) NB 12 | CMSA(GD) NB 12 | |
| Tuesday | II | | CMSM(SD)VB 8 | CMSM(SD)VB 8 | IDC Comp sc(MN) NB8 | ENVS(MAJOR) NB 8 CVAC(MDC) VB3 | AEC(MDC) |
| | IV | | AEC(MDC) | CMSM(P) (IG)VB 8 | CMSM(P) (IG)VB 8 | CMSM(MN) NB 19 | |
| | VI | | | | CMSA(SD) VB 6 | CMSA(SD) VB 6 | |
| Wednesday | II | | | CMSM(MG) VB 6 | AEC(MAJOR) | ENVS(MDC) MN NB 8 CVAC (MAJOR)VB 3 | |
| | IV | | CMSM(MG) VB 6 MCMS(MG) VB 6 | AEC(MAJOR) | CMSM(IG) VB 8 | | |
| | VI | | | | CMSA(MG) VB 8 | CMSA(MG) VB 8 | |
| Thursday | II | | CMSM(SD) VB 6 | CMSM(SD) VB 6 | IDC BOTD(NC) NB 15 | ENVS(MDC)(SD) NB 8 CVAC(MAJOR) VB 3 | |
| | IV | | CMSM(MG) NB 12 MCMS(MG) NB 12 | AEC(MDC) CMSM(IG) VB 8 | CMSM(MG) NB 12 MCMS(MG) NB 12 | CMSM(MG) NB 12 MCMS(MG) NB 12 | |
| | VI | | | | CMSA(SD) VB 6 | CMSA(SD) VB 6 | |
| Friday | II | | | IDC | AEC(MDC) | CMSM(P)(MG)NB 12 | CMSM(P)(MG)NB 12 |
| | IV | | AEC(MAJOR) | | CMSM(P)(MN) NB 12 | CMSM(P)(MN) NB 12 | |
| | VI | | | CMSA(P)(MG) VB 6 | CMSA(P)(MG) VB 6 | | |
| Saturday | II | | | | | | |
| | IV | | | CMSM(MG) NB 12 MCMS(MG) NB 12 | CMSM(MG) NB 12 MCMS(MG) NB 12 | | |
| | VI | | CMSA(GD) VB 6 | CMSA(GD) VB 6 | CMSA(GD) NB 12 | CMSA(GD) NB 12 | |

5. Syllabus Distribution :-

Department of Computer Science Syllabus Distribution (Odd Semester) 2024-25

| Semester | Paper | Topic | Teacher's Name |
|----------|-------------|------------------------------------|------------------------|
| SEM 1 | CC 1 | Digital Electronics | IG(2) |
| | CC 1 Prac | Digital Electronics | IG(2) |
| | SEC 1 | Spreadsheet and Data Visualization | MG(2) |
| | SEC 1 Prac | Spreadsheet and Data Visualization | MG(2) |
| SEM 3 | CC 3 | Data Structure | MG(2) |
| | CC 3 Prac | Data Structure | MG(2) |
| | CC 4 | Computer Architecture | GD(2) SD(2) |
| | CC 4 Prac | Computer Architecture | IG(2) |
| | SEC | Mobile App Development | GL(2) |
| SEM 5 | CC 11 | DBMS | GD(2) |
| | CC 11 Prac | DBMS | GD(2) |
| | CC 12 | Object Oriented Programming | MG(2) |
| | CC 12 Prac | Object Oriented Programming | MG(2) |
| | DSE A1 | Image Processing | GD(2) |
| | DSE A1 Prac | Image Processing | GD(2) |
| | DSE B1 | Programming Using Python | GD(2) SD(2) |
| | DSE B1 Prac | Programming Using Python | GL(2) |

6. Departmental Activities:-

Open House Program

Date: 21/05/2025 Time: 12 noon

Venue: Room VB - 6

Objective : The primary objective of the Open House program was to establish an open and supportive dialogue between the students and the faculty members of the Department of Science. The main goals included:

- Addressing academic issues and learning challenges faced by students.
- Discussing concerns related to teaching methods, laboratory sessions, and examinations.
- Identifying and resolving infrastructure-related concerns within the department and the college.

Description : The Open House was held on 21st May 2025 at 12:30 PM within the Science Block of Serampore Girls' College. Faculty members from the departments of Physics, Chemistry, Mathematics, and Electronic Science actively participated in the event.

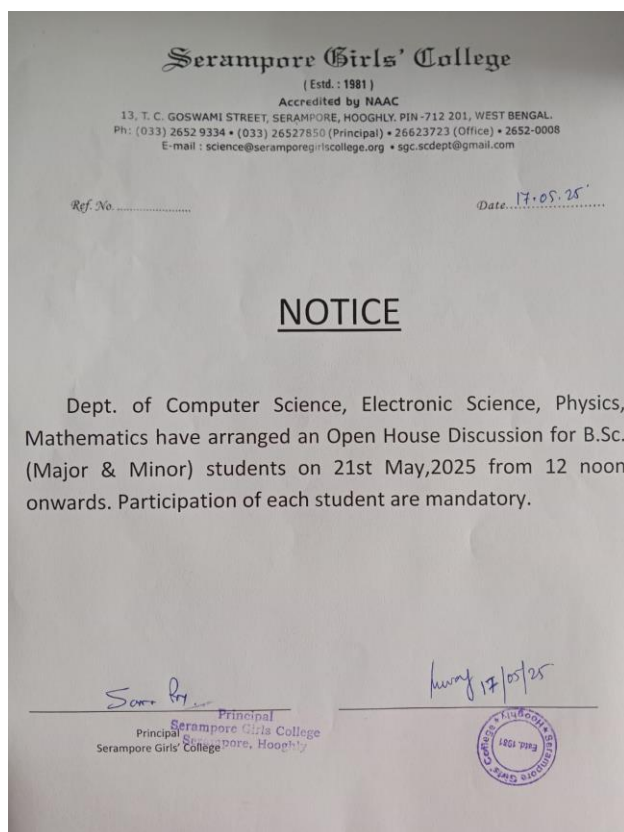
During the session, students raised various academic issues, such as:

- Difficulty in understanding complex topics in certain subjects.
- Requests for extra tutorial and remedial classes.
- Suggestions for modernizing laboratory equipment and increasing practical exposure. In addition to academic concerns, students also shared feedback regarding:
- Inadequate availability of textbooks and reference materials in the library.
- Poor ventilation in some classrooms.

Faculty members attentively listened to each point and assured appropriate action. Immediate solutions were discussed where feasible, while others were documented for discussion with the college administration

Outcome : The program achieved its intended goals and yielded positive results:

- Students appreciated the opportunity to voice their concerns in an open and respectful environment.
- Teachers gained deeper insight into the challenges faced by students, which will help improve teaching and support strategies.
- Plans were initiated for follow-up actions, including addressing infrastructure issues and scheduling additional academic support sessions.
- The session strengthened mutual trust and communication between students and faculty.



Serampore Girls' College
Computer Science, Electronic Science, Physics, Mathematics
Open House Program
2024-25
Date – 21.05.2025

| Sl. No. | Students' Name | Roll No. | Mobile No. |
|---------|-------------------|----------|------------|
| 1 | Sasomari Mitra | 24265 | 6291414932 |
| 2 | Jaymita Das | 24238 | 9477817021 |
| 3 | Ankita Samra | 24230 | 8240519017 |
| 4 | Aditi Chakraborty | 24220 | 8293751118 |
| 5 | Vaishya Shaw | 24267 | 9903791167 |
| 6 | Manisha Nalla | 24244 | 6290137197 |
| 7 | Puhari Kumari | 24277 | 6290062302 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

S. S. 21.5.25
 Head of the Department
 Department of Physics

21/05/25
 Head of the Department
 Department of Mathematics

21.5.25
 Head of the Department
 Department of Computer Science

21.5.25
 Head of the Department
 Department of Electronics

Teachers' Signature



Career Counselling Program 2024-25

Date: 07/09/2024 Time: 12 noon

Venue: Room NB - 17

Objective: To encourage students to learn about the modern requirement in IT Sector. To make them know how to join in IT Sector.

Program Details: Department of Sciences (Computer science, Physics) has arranged a career counselling program to discuss about different Job Aspects in IT Sector. Sanchari Sen, Senior Software Engineer, Capgemini Service India Pvt. Ltd. Kolkata discussed about different topics on Jobs in IT. She is also ex-student of Department of Computer Science. 15 Students of 1st, 3rd and 5th Semesters participated on this session. The session was interactive and very effective. The topics described in the session were Understanding the IT Industry, Skills Required, Educational Pathways, Career Options, Job Search Strategies, Networking and Professional Development, Interview Preparation for IT Industry etc.

Outcome: We, the team of Departments of Sciences, were really flabbergasted by the immense response of our students to take part in the event. The newer age with shiny intelligence actually struck their mark for sure. We are quite hopeful for such future endeavors if our honorable college authority allows us to arrange the fruiting of such plans.



| Serampore Girls' College | | | |
|-------------------------------|-----------------------|----------|-----------------------|
| Department : Computer Science | | | |
| Career Counselling Program | | | |
| 2024-25 | | | |
| Date : 07.09.2024 | | | |
| Attendance Sheet | | | |
| Sl. No. | Students' Name | Roll No. | Signature |
| 1. | KALPA SARKAR | 22439 | Kalpa Sarkar |
| 2. | VARSHA SHAW | 22454 | Varsha Shaw |
| 3. | BARANI BANERJEE | 22454 | Barani Banerjee |
| 4. | Gayatri Das | 22067 | Gayatri Das |
| 5. | Larna Paul | 22442 | Larna Paul |
| 6. | Susannil Mukherjee | 22455 | Susannil Mukherjee |
| 7. | Harshita Bhattacharya | 22455 | Harshita Bhattacharya |
| 8. | Arijit Singh | 22455 | Arijit Singh |
| 9. | Rajni Singh | 22048 | Rajni Singh |
| 10. | Pooja Sarkar | 22050 | Pooja Sarkar |
| 11. | Sneha Kundu | 22052 | Sneha Kundu |
| 12. | Ankita Pal | 22454 | Ankita Pal |
| 13. | Barani Banerjee | 22454 | Barani Banerjee |
| 14. | Harshita Bhattacharya | 22455 | Harshita Bhattacharya |
| 15. | Nilam Yadav | 22455 | Nilam Yadav |

Moumita Ghosh 07.09.24
Teachers' Signature
Head of the Department
Department of Computer Science



Parent Teacher Meeting

Session: **2024-2025**

Event Type: **Parent Teacher Meeting**

Event Date: **18/12/2024**

Event Time: **12 noon**

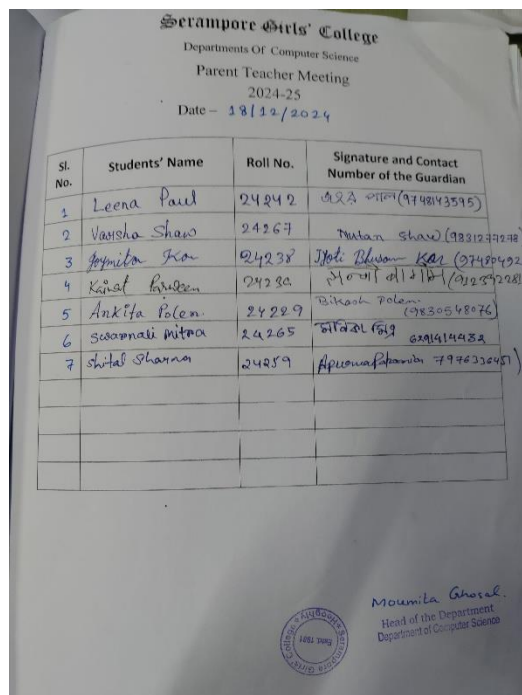
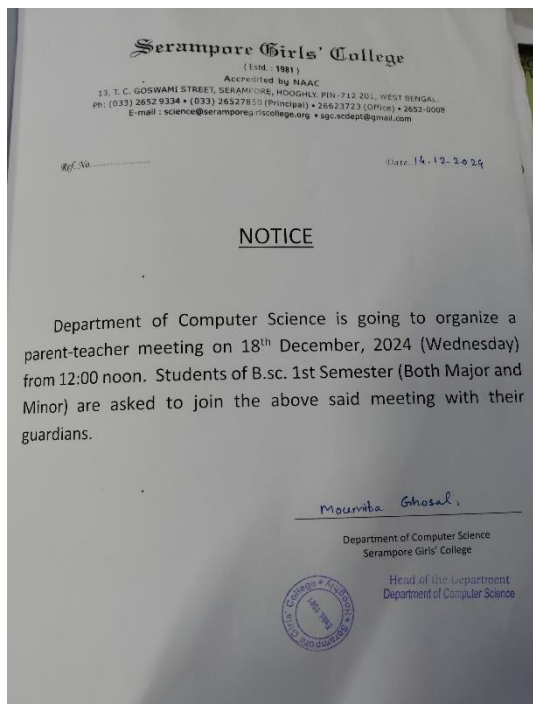
Subject Teacher: **Moumita Ghosal**

Attendance: **7**

Objective: To show the students attendance (in %), CIE results and behavior of students to parents.

Brief Description: **Students of semester 1 were present in the meeting with their guardian.**

Outcome: Discussion about their studies were made through one to one communication.



Educational Tour

Session: **2024-2025**

Event Type: **Educational Tour**

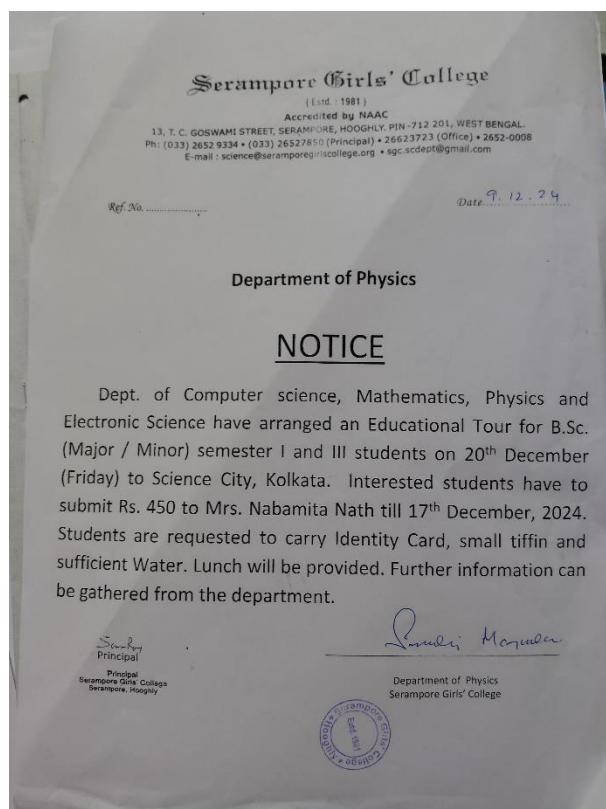
Event Date: **20/12/2024**

Attendance: **Students- 14 Teacher - 7**

Objective: To enhance knowledge and understanding (ii) To promote teamwork and social skills (iii) To encourage independent learning (iv) To promote creativity and critical thinking (v) To provide a break from the monotony of classroom learning

Brief Description: Department of Computer Science, Mathematics, Physics and Electronic science together arranged an educational tour to Science City, Kolkata on 20th December, 2024. The tour was arranged for semester-I and semester-III students of all the above-mentioned science departments. The journey was started from Serampore at about 9 a.m. on the day. It is an excellent opportunity for students to learn about various scientific phenomena, including electricity, magnetism, and optics. Students enjoyed the show and earned lots of knowledge from the show. Small lunch and snacks were arranged in between. The journey ended at Serampore at about 7 p.m.

Outcome: In conclusion, the educational tour provides an excellent opportunity for students to learn outside of the classroom setting. The tour's theme of promoting scientific knowledge, historical awareness, and environmental consciousness is evident in the choice of destinations. The tour is an excellent opportunity for students to gain practical knowledge that they can apply in real-life situations, broaden their horizons, and enhance their learning experience.



Teachers' Day Celebration

Date: 01/10/2024

Time: 11:00 a.m.-3:30 p.m

Venue: NB 21

Department: Computer science, Mathematics, Physics, Electronic science, Botany,Zoology, Chemistry

Objective: To celebrate Teacher's Day

Number of attendee: Student: 26 Teacher: 8

Outcome:It enhanced the teacher student relationship





7. Teaching Learning Methods :-

Project-

Department: Computer Science

Semester: VI

Number of students: **05**

Name of the program: B.Sc. Computer Science Honours

Code of the Program: B.Sc. CMSA SEM 6

Name of the course: Theory of Computation and Software Engineering

Code of the course: CC13 & CC14

Title (if available):

Place: Serampore Girls' College

Duration (In Hours): 60

Date: 2023-2024

Objectives:

To gain knowledge about Project making and Phases of a Project. Students are also benefited by Project presentation. Knowing about how Software Engineering can be applied to build a software will enrich them in their IT Profession.

Outcome:

Students of Department of Computer Science made six Projects in Groups or alone. They successfully completed their project works under the guidance of Departmental Teacher Ms. Moumita Ghosal.

Serampore Girls' College
(Estd. : 1981)
Accredited by NAAC
13, T. C. GOSWAMI STREET, SERAMPORE, HOOGHLY, PIN-712 201, WEST BENGAL.
Ph: (033) 2652 9334 • (033) 26527850 (Principal) • 26623723 (Office) • 2652-0008
E-mail : science@seramporegirlscollege.org • sgc.scdept@gmail.com


Department of SCIENCE

Ref. No. Date.....

NOTICE
on
Project Work Distribution

Students of Semester 6 of Computer Science Honours are here by notified that their Project work (Paper CC13 & CC14 Practical) will be done as per following topics.

| Group | Name of the students | Project Title | Guide |
|---------|----------------------------------------------------|-------------------------------|----------------|
| Group 1 | Anushree Dutta Poushali Sarkar Sucheta Kundu | Hepatitis Cure Helping System | Moumita Ghosal |
| Group 2 | Rajni Singh Arpita Jha | Employee Management System | Moumita Ghosal |



Continuous Internal Examination-

Serampore Girls' College
Continuous Internal Assessment-2024
Computer Science (Major)
SEM-II
Paper-DSCC 2

Full Marks: 20 Time: 1 hour

4x5

- Distinguish between a variable and a constant in C. Explain the difference between variable definition and variable declaration with example.
- Differentiate between break and continue statements. Explain with examples.
- Write a C code to find the factorial of a given number.
- Write a C code to print the Floyd's triangle:

1
2 3
4 5 6
7 8 9 10

Serampore Girls' College
SERAMPORE, HOOGHLY

B.A/B.Sc. C.I.E Examination, 2024
Subject: CMSA
Full Marks: 20

| Roll No. | Paper | Roll No. | Paper | Roll No. | Paper | Roll No. | Paper |
|----------|-------|----------|-------|----------|-------|----------|-------|
| 230 55 | 6 | | | | | | |
| 57 | 7 | | | | | | |
| 58 | 7 | | | | | | |
| 60 | 8 | | | | | | |
| 61 | 2 | | | | | | |
| 66 | 3 | | | | | | |
| 67 | 5 | | | | | | |
| | 8 | | | | | | |
| 234 81 | 9 | | | | | | |

Date: 5/7/24 Signature of the Examiner [Signature]

Serampore Girls' College
SERAMPORE, HOOGHLY

B.A/B.Sc. C.I.E Examination, 2024
Subject: CMSA
Full Marks: 20

| Roll No. | Paper | Roll No. | Paper | Roll No. | Paper | Roll No. | Paper |
|----------|-------|----------|-------|----------|-------|----------|-------|
| 230 55 | 10 | 23 | | | | | |
| 230 55 | 14 | 23 | | | | | |
| 230 60 | 11 | 14 | | | | | |
| 230 61 | 05 | 24 | | | | | |

Date: 6/12/24 Moumita Ghosal
Signature of the Examiner

Serampore Girls' College
Internal Examination – 2024
Sem – III
Sub – CMSM

Paper – CC 3 Full Marks – 20

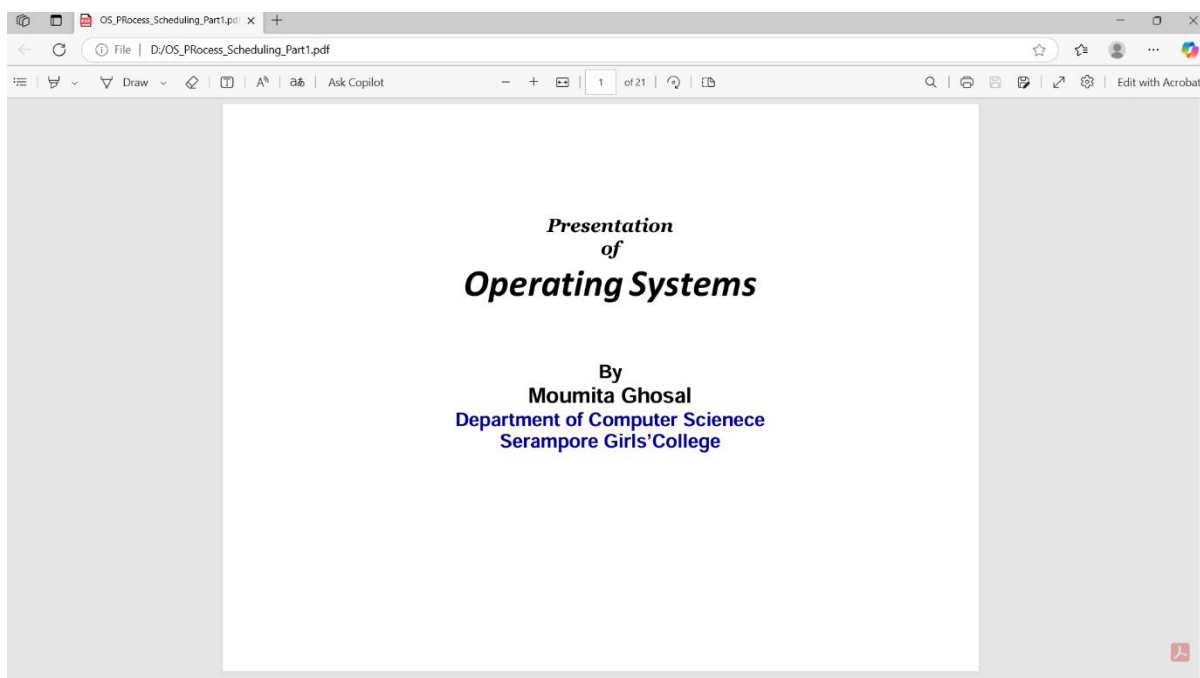
1. Define Data Structure. 2
2. How 2 D Array are stored in Computer Memory? 4
3. Define Stack. 2
4. Write algorithm for PUSH and POP operation. 4
5. Write the differences between Stack and Queue. 2
6. Write an algorithm for Binary Search with proper example. 6

Serampore Girls' College
Internal Examination – 2024
Sem – III
Sub – CMSM

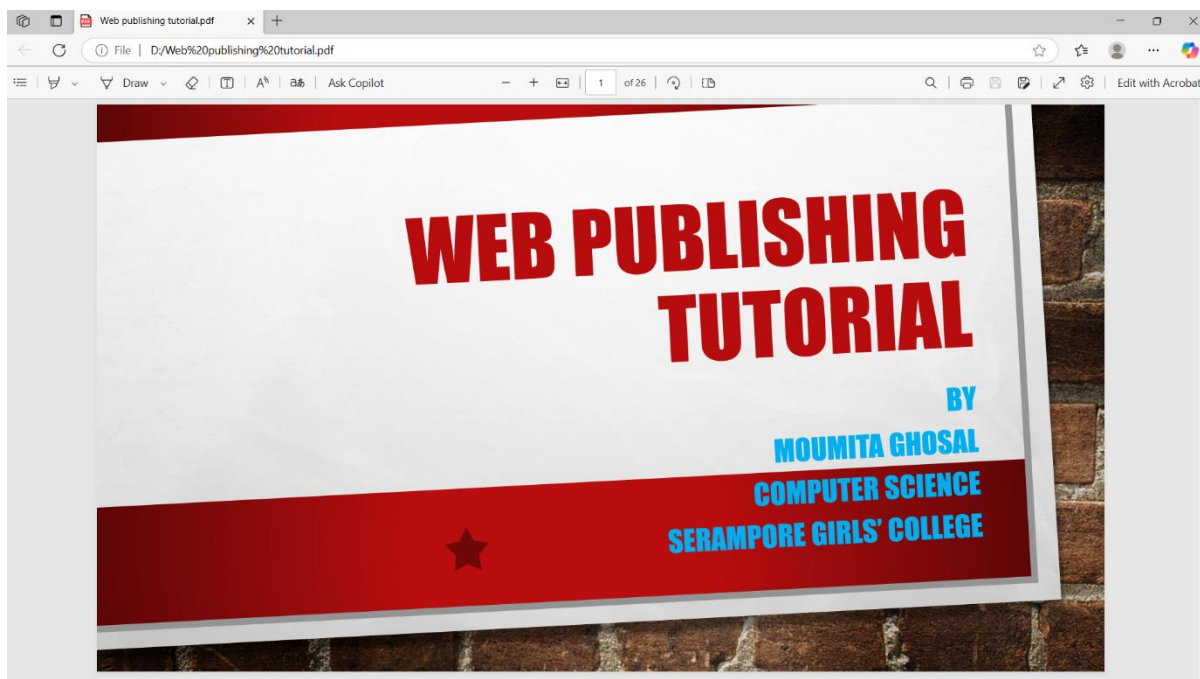
Paper – CC 4 Full Marks – 20

1. Write differences between Computer Architecture and Organization. 2
2. Draw Von Neumann Architecture. 3
3. What are the bottlenecks of Von Neumann Architecture? 3
4. Define Instruction. 2
5. What are different types of Instruction Format? 3
6. What is the function of PC and IR? 2
7. Write three and One Address Instruction for the following Expression.
 $X = (A + B) * C$ 5

ICT Classes-



ICT for Semester –4; Date – 14.05.2025; Topic – Operating System Intro and Process



ICT for Semester –2; Date – 10.05.2025; Topic – Web Publishing Introduction



Faculty Exchange Program:-

Date: 15/05/2024

Time: 12 noon

Venue: Room VB 6

Objective: To encourage students to learn about the C Programming Language at a glance. Learn from outsource.

Program Details: Serampore Girls' College has MOU with Bidhan Chandra College, Rishra. Department of Computer Science organized a One Day Faculty Exchange Program with Bidhan Chandra College. Mr. Unmesh Mandal, Department of Computer Science of Bidhan Chandra College, Rishra conducted this session. He taught about C Programming through Turbo C Software. 13 Students of Semester 2 joined in this program.

Outcome: Our students enjoyed the session and participated very joyously. They enriched by the lecture.



8. Student's Participation in different Activities :-



Anjali Ojha of Semester 2 participated in College Sports



Leena Paul of Semester 1 participated in College Cultural Competition.



Basanta Utsav Celebration



Riddhi Singh of Semester 2 participated in Poster Competition on 22nd April, 2025 on the occasion of Earth Day Celebration and Got First Position.



Student team from Semester 2 participated in Poster Model Competition on 22nd April, 2025 on the occasion of Earth Day Celebration and Got First Position.





Leena Paul, Nilam Yadav and Suhani Kumari of Semester 2 has joined in Food fair arranged by Serampore Girls' College on 13th May, 2025.



9. Student's Participation in Seminar :-



Students of Semester 5 attended one day State level Seminar on Digital Image Processing arranged by Shree Agrasain College on 27/11/2024 along with Departmental Teacher.

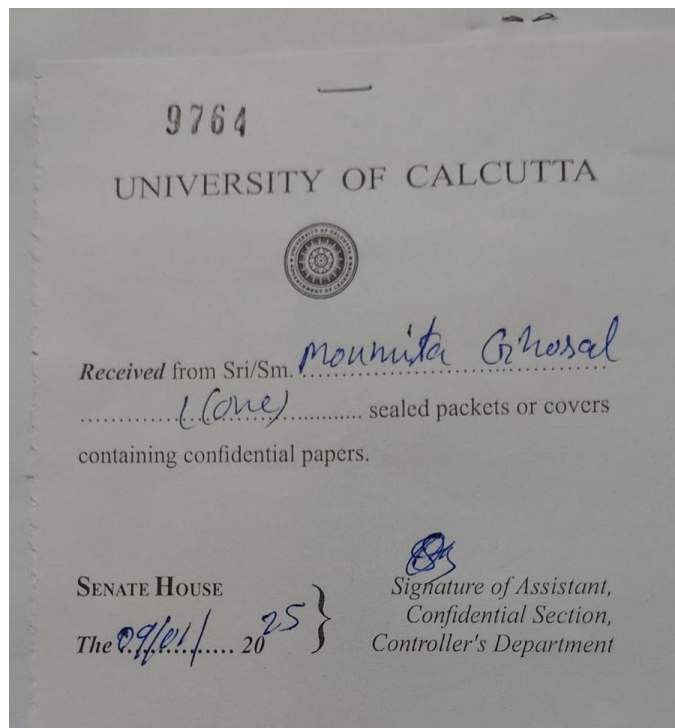
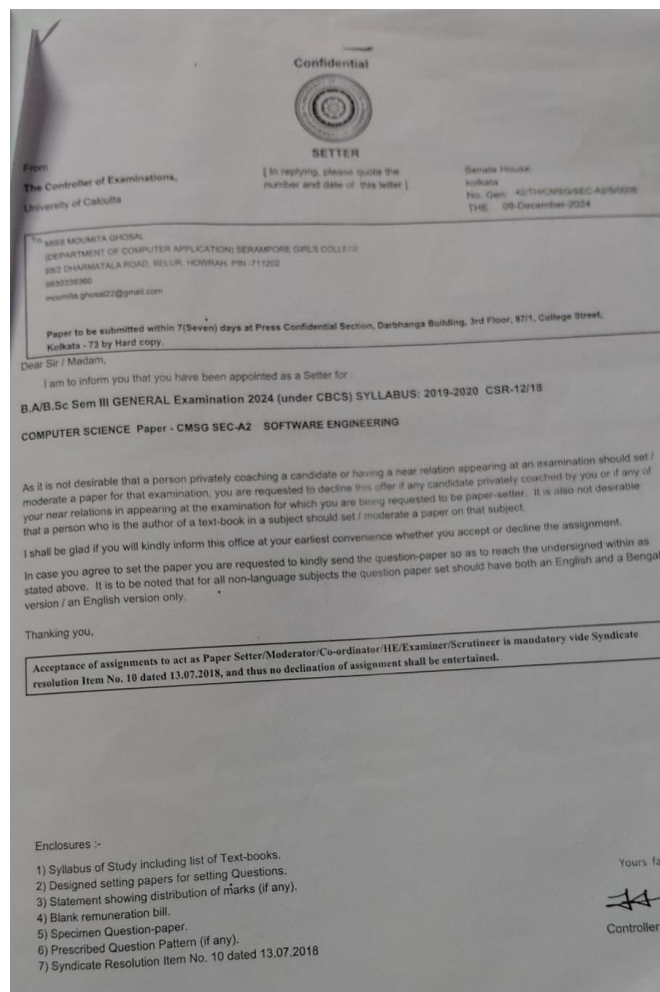
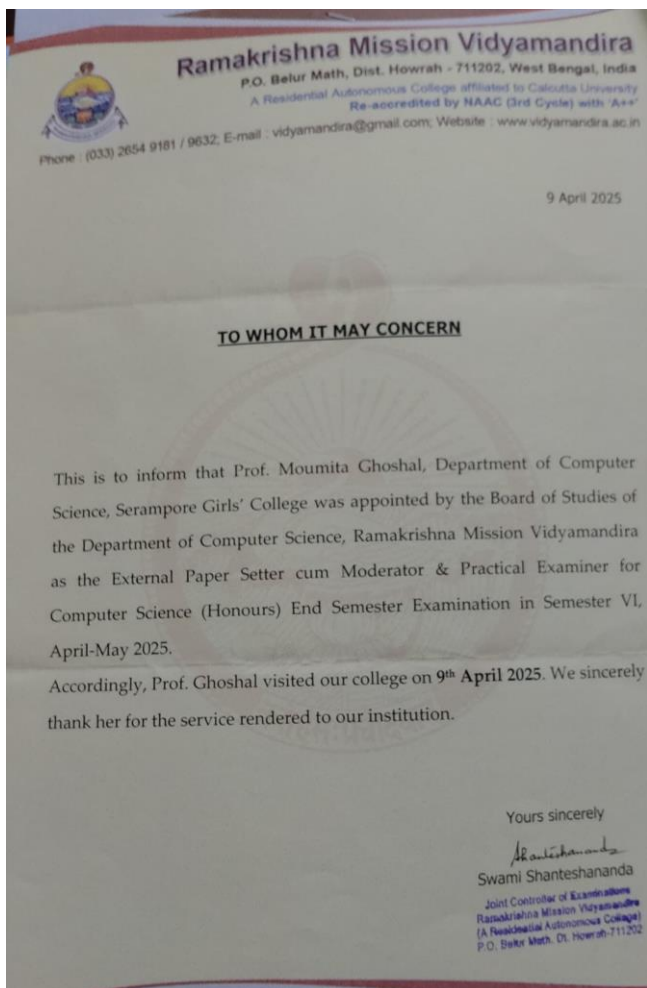
10. Teacher's Activity:-

Committee Member:-

Cultural Committee Member

Examiner's Duty:-

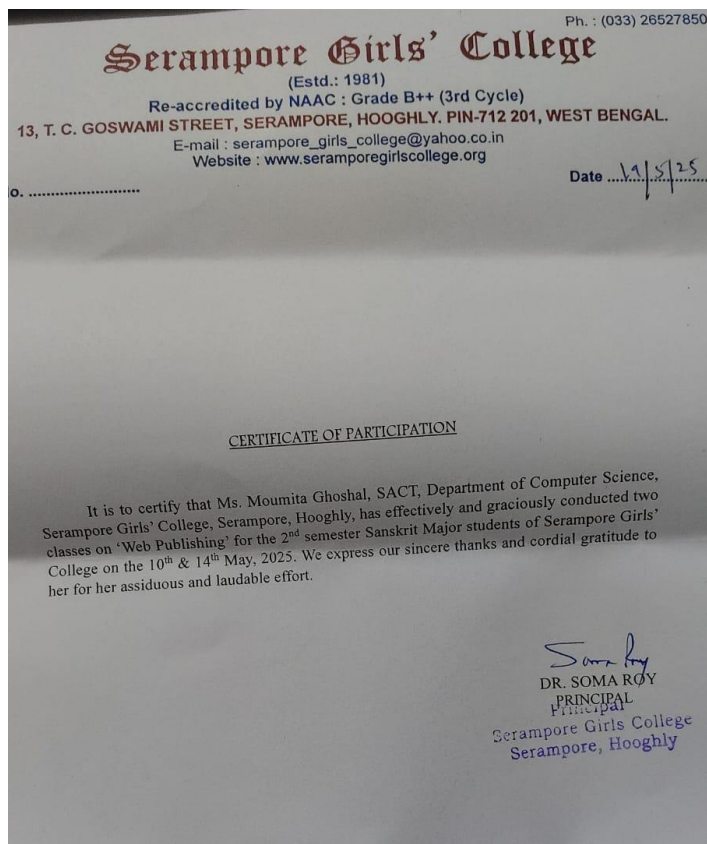
| Subject | Paper | Duty | Venue |
|--------------------------|------------|-------------------------|--------------------------------|
| Computer Science | CC14 | PRACTICAL EXAMINER | Ramkrishna Mission Vidyamandir |
| Computer Science | CC14 | Paper Setter | Ramkrishna Mission Vidyamandir |
| Computer Science | CC3 | PRACTICAL EXAMINER (CU) | Gurudas College |
| Computer Science | CC3 | Examiner (Theory) | CU |
| Computer Science | DSA2 | Examiner (Theory) | CU |
| Computer Science | SEC A2 | Paper Setter | CU |
| Computer Science (Major) | DSE B2 | Paper Setter | CU |
| Computer Science | DSE A2(PR) | Paper Setter | CU |



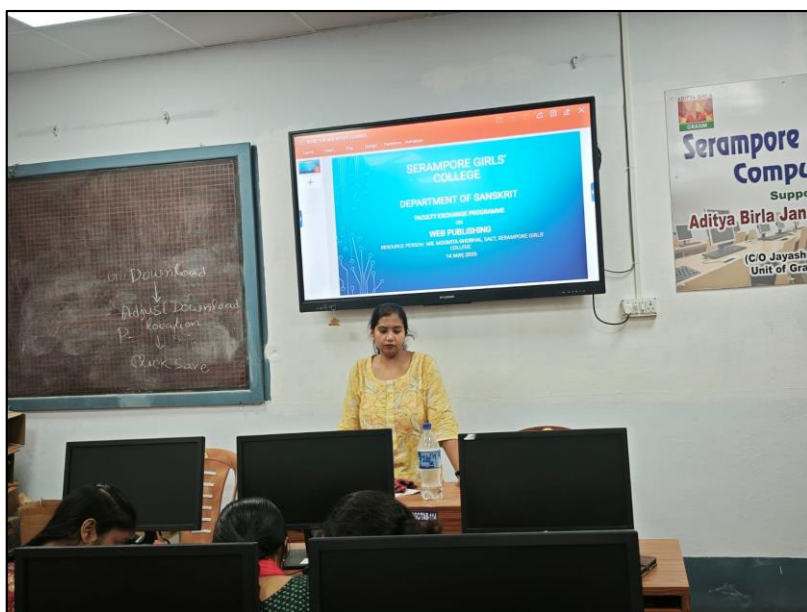
Teacher's Certification-



Special Lecture by Departmental Teacher



Special Lecture was delivered to Sanskrit Major 2nd Semester Students on Web Publishing on 10/5/2025 and 14/5/2025



11. Student's Job Enrolement:-



Puja Dey got job in DHL from 5/9/2024