

SERAMPORE GIRLS' COLLEGE

DEPARTMENT OF COMPUTER SCIENCE

DEPARTMENTAL REPORT

2023-2024

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1. Number of Students :-

Year	Major	Minor
SEM 1	08	02
SEM 2	08	02
SEM 3	05	01
SEM 4	05	00
SEM 5	12	02
SEM 6	12	02

Total Number of Students – 30

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 :- 30 : 4

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

Serampore Girls' College							
Routine –Science (ODD semester)-2023-24 (July-December,2023)							
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		CMSM SEC+ CMSG MDC SEC(M.G) VB-6	IDC CMSG (M.N) NB-8			
	III			CMSA-CC5 (M.G) VB-6	CMSA-CC6(M.N) P LAB 1		
	V				CMSA-CC11(M.G) VB-6	CMSA-CC11(M.G) VB-6	
Tuesday	I	CMSM+CMSE MDC (I.G) VB-6					
	III			CMSA CC6 (M.N) P LAB 1			
	V		CMSA CC12 (P) (A.M) VB 8	CMSA CC12 (P) (A.M) VB 8	CMSA CC12 (A.M) VB-6	CMSA CC12 (A.M) VB-6	
Wednesday	I			CMSM+CMSG MDC SEC (M.G) (P) VB-8	CMSM+CMSG MDC SEC (M.G) (P) VB-8	IDC CMSG (M.N) NB-8	
	III		CMSA+CMSG CC5 (M.G) VB-6	CMSA-CC5 (I.G) (P) VB-6		CMSA CC7 (M.G) P LAB 1	
	V		CMSA DSE A1 (A.M) T 2	CMSA DSE A1 (A.M) T 2	CMSA DSE A1 (P) (A.M) VB 8	CMSA DSE A1 (P) (A.M) VB 8	
Thursday	I	CMSM+CMSG MDC (I.G) (P) VB-6	CMSM+CMSG MDC (I.G) (P) VB-6				
	III		CMSA-CC7 (M.G) (P) VB- 8	CMSA-CC7 (M.G) (P) VB-8			
	V				CMSA CC11 (M.G) VB-6	CMSA CC11 (M.G) VB-6	
Friday	I			CMSM+CMSG MDC SEC (M.G) VB 6	IDC CMSG (M.N) NB-8		
	III		CMSA CC6 M.N (P) VB-8	CMSA CC6 M.N (P) VB 8	CMSA CC7 (M.G) VB-6	CMSA+CMSG CC5(M.G) VB- 6	
	V		CMSA DSE B1 (A.M) VB- 6 CMSG (M.G) P LAB 1	CMSA DSE B1 (A.M) VB-6	CMSA DSE B1 (A.M) P VB-8	CMSA DSE B1(A.M) (P) VB- 8	
Saturday	I				CMSM (I.G) PLAB 1		
	III	CMSA CC6 (M.N) VB-6	CMSA CC7 (M.G) VB-6		CMSA SEC (G.D) VB-6	CMSA SEC (G.D) VB-6	
	V		CMSA CC11(P) (G.D) VB 8	CMSA CC11(P) (G.D) VB 8	CMSG (M.G) VB 8		

Total Class M.G – 18 (PDAY -TUESDAY) I.G (Electronic Department -05) M.N (Mathematics Department – 08)
A.M (Visiting Faculty Tuesday, Wednesday & Friday) -12 G.D (visiting Faculty Saturday) - 04

Head of the Department
Department of Computer Science

Mumita Ghosh. 28.9.23

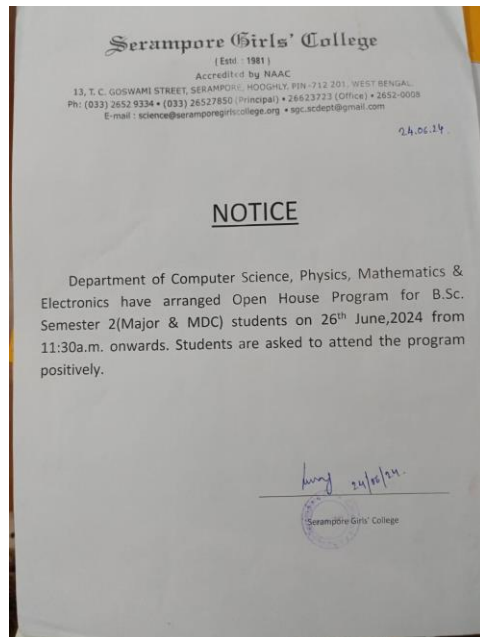
Class Routine of the department for the academic session 2023-24 (Even Semester)

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		CMSA-CC3 (M.G) VB 8 CMSC CC2 (M.G) VB 8		CMSA-CC4 (I.G) VB 6		
	IV			CMSA-CC8 (M.G) ICT VB 8	CMSC (M.G) VB 8	CMSA- CC10 (I.G) ICT VB 6	
	VI					CMSA-CC13(M.G) VB 8	CMSA-CC13(M.G) VB 8 CMSC (M.N) P LAB
Tuesday	II			CMSA-CC4 (I.G) (P) VB 6	CMSA-CC4 (I.G) (P) VB 6		
	IV			CMSA CC9 (A.G) VB 8	CMSA CC9 (A.G)(P) VB 8	CMSA CC9 (A.G)(P) VB 8	
	VI	CMSA CC14 (A.G) VB 8	CMSA CC14 (A.G) VB 8				
Wednesday	II		CMSA –CC4 (I.G) VB 8	CMSA-CC3(M.G) ICT VB 8 CMSC-CC2(M.G) VB 8			
	IV	CMSA- CC10 (I.G) VB 6			CMSA-CC8 (P) (M.G) VB 8	CMSA-CC8 (P) (M.G) VB 8	
	VI						
Thursday	II					CMSA-CC3(M.G) (P) VB 8 CMSC-CC2(M.G) (P) VB 8	CMSA-CC3(M.G)(P) VB 8
	IV		CMSA- CC10 (I.G)(P) VB 6	CMSA- CC10 (I.G)(P) VB 6	CMSA-CC8 (M.G) VB 6		
	VI		CMSA-DSE A(M.G) VB 8 ICT	CMSA-DSE A(M.G) (T) VB 8			
Friday	II						
	IV		CMSC (M.G) (P) VB 8	CMSC (M.G) (P) VB 8			
	VI				CMSA-DSE A(M.G) (P) VB 8	CMSA-DSE A(M.G)(P) VB 8	CMSC (M.N) VB 8
Saturday	II						
	IV			CMSA SEC (A.G) VB 6 CMSC SEC (M.G) VB 8			
	VI	CMSA-DSE B(A.G)(P) VB 8	CMSA-DSE B(A.G)(P) VB 8		CMSA-DSE B (A.G) VB 6	PROJECT (M.G/A.G/I.G) VB 8	
MG (P Day – TUESDAY) Total Class – 20 A.G (TUESDAY, SATURDAY) Total Class – 10 M.N (Department of Mathematics) Total Class – 02 I.G (Department of Electronic Science)-09							

5. Syllabus Distribution :-

Semester – 1			
Paper Code	Paper Name	Teacher Name	Allocated Class
DSC CC1	Computer Fundamental & Digital Theory + Practical	IG	Theo – 02 Prac - 02
SEC -1	Data Visualization using Spreadsheet Theory + Practical	MG	Theo - 02 Prac - 02
IDC	Fundamentals of Computer Science & its Application Theory	MN	Theo - 03
Semester – 3			
CC5	Organization	Theo – MG Prac – IG	3 2
CC6	Computational Mathematics	Theo & Prac - MN	3 2
CC7	Operating System	Theo & Prac	2 2
SEC A1	Computer Graphics	Theo -GD	2
CMSG CC3	Organization	Theo -MG	3(With Honours)
CC3 P	Python	Prac -MG	2 (With SEM 5)
Semester – 5			
CC11	DBMS	Theo -MG Prac -GD	3 2
CC12	OOP	Theo & Prac -AM	2 2
DSE A1	Image Processing	Theo & Prac – AM	2 2
DSE B1	Python	Theo & Prac – AM	2 2
CMSG DSE B1	DBMS	Theo & Prac – MG	2 2

➤ Open House Program

[illegible]

➤ Celebration of Science Day, 2024

Report on Celebration of Science Day, 2024

Date: 28/02/2024 Time: 11 a.m to 3:30 p.m

Venue: Room NB-8

Objective: To encourage students to learn more by heuristic approach about the modern developments and newer windows of scientific world and to make them realize how to make our lives easier by proper and safe utilization of those technologies.

Program Details: Departments of Sciences (Computer science, Mathematics, Physics, Chemistry, Electronic Science, Botany, Zoology) have planned and organized a 'Science Day' celebration on 28th of February, 2024. With the proper guidance of our honorable Principal Madam and collaborative participation of all the departments made this event fruitful on the very day. The event inaugurated by our honorable President Dr. Sudipto Roy and also other members from the governing body were present during the event. The inaugural song was presented by students from music department and introductory speech was delivered by the student of computer science. A lecture on butterfly was given by our special guest on that day Mr. Judhajit Dasgupta (Ex. Assistant Editor, Desh Patrika, ABP Ltd.). After that we had a poster presentation event by our enthusiastic students who showed really nice levels of ingenuity and thoughtfulness through their works. Dr. Sandip Majumdar, Mr. Debkanti Das and Nandita Kundu (Associate Professor from the department of History) were the judges to evaluate the striking presentations among these new hopes. Also there was Debate competition for the students, where students shared their ideas on the given topic. This competition was judged by the faculty members Moumita Ghosal, Dr. Asraful Alam and Dr. Madhushree Halder. Prize distribution was arranged at the end of the program to encourage students.

Outcome: We, the team from the Departments of Sciences, were really flabbergasted by the immense response of our students to take part in the event. This year students from different stream participated in the competition. 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.



➤ Teachers' Day Celebration

Date: 16/10/2023 **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: 50 Teacher: 8

Outcome:It enhanced the teacher student relationship.

Teachers' Day and Freshers' Welcome

Department: Mathematics

Academic Session: 2023-24

Objective of the Event: To enhance the relationship between all semester students and teacher student relationship.

Date: 16.10.2023

Time of the Event: 11:00 a.m.

Number of attendees: (a) Student (mention semester): 50 (All semester)

(b) Teacher: 08

Venue: NB 21



➤ Parent Teacher Meeting

Session: **2023-2024**

Event Type: **Parent Teacher Meeting**

Event Date: **23/12/2023**

Event Time: **1pm**

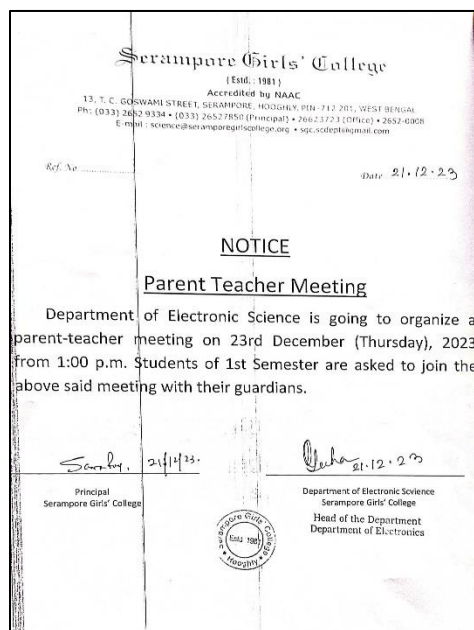
Subject Teacher: **Moumita Ghosal**

Attendance: **6**

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

Brief Description: **Students of semester 2 were present in the meeting with their guardian.**

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



➤ Educational Tour

Serampore Girls' College

Report on *Educational Tour*

Organized by

Department of Computer science, Physics, Mathematics, Electronic science

Date: 18.01.2024

Objective: (i) 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

Program Details: Department of Computer Science, Mathematics, Physics and Electronic science together arranged an educational tour to Rail Museum and Howrah Planetarium and Astronomical research centre on 18th January, 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 10 a.m on the day.

The first destination of the educational tour was the Rail Museum. The museum houses a vast collection of exhibits that showcase various rail models as well as different railway parts, where science and technology has been vastly used. It is an excellent opportunity for students to learn about various scientific phenomena, including electricity, magnetism, and optics.

The second destination was Howrah Planetarium and Astronomical research centre. There was a 3D show that tells interesting story about various astronomical phenomena as well as behaviour of poles of planets, about nature of different planets etc. 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 5 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.



7. Teaching Learning Methods :-

➤ Project-

Department: Computer Science

Semester: VI

Number of students: 10

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) 2652 7850 (Principal) • 26623723 (Office) • 2652-0008
E-mail : science@seramporegirlscollege.org • sgscsdept@gmail.com

Department of SCIENCE

Ref. No. : _____

NOTICE
on
Project Work Distribution

Students of Semester 6 of Computer Science Honours 2024 are hereby 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	Dipanwita Bhadra Dipsikha Bhadra	Breast Cancer Detection by Machine Learning	Asmita Mukherjee
Group 2	Lipika Majhi Megha Sen	Evaluation of Academic Performance Management System	Ms. Moumita Ghosal
Group 3	Prerona Halder Sanyukta Sardar	Social Media Data Analysis System	Ms. Moumita Ghosal
Group 4	Titasa Dutta Anjali Pal	Healthcare Data Management System	Ms. Moumita Ghosal
Group 5	Sweta Yadav Riya Tiwari	E-Commerce Database Management System	Ms. Moumita Ghosal
Group 6	Poulomi Dutta	Airlines Management System	Ms. Moumita Ghosal

Moumita Ghosal 29.4.24
Department of Computer Science
Serampore Girls' College
Head of the Department
Department of Computer Science

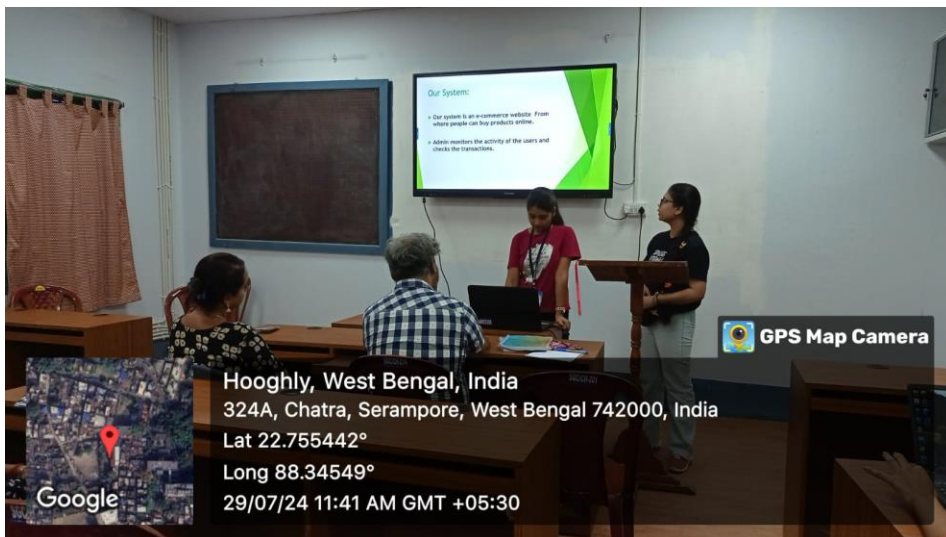
Page 1 of 1
Print Date : 26/07/2024

UNIVERSITY OF CALCUTTA
Award List (Practical Examination)
B.A./B.Sc. SEMESTER - VI (Honours) Examination (Under CBCS), 2024

College/Centre : SERAMPORE GIRLS COLLEGE (614)
Subject : CMSA
Course : CC14
Subject Category : HONOURS
Assessment Type : Practi
Course Name : THEORY OF COMPUTATION & Project Implementation and Presentation
Batch No. : 1
Foil No. : 5676

Srl No.	Roll Numbers	Registration Numbers	Signature of Candidates	Marks Obtained		
				Examiner	Scrutiniser	HE
1	213614-11-0008	614-1211-0307-21	Sanyukta Sardar	25		
2	213614-11-0010	614-1211-0310-21	Sweta Yadav	24		
3	213614-11-0011	614-1211-0314-21	Anjali Pal	22		
4	213614-11-0013	614-1211-0316-21	Prerona Halder	24		
5	213614-11-0015	614-1211-0318-21	Titasa Dutta	24		
6	213614-11-0016	614-1211-0319-21	Poulomi Dutta	26		
7	213614-11-0018	614-1211-0321-21	Dipanwita Bhadra	26		
8	213614-11-0019	614-1211-0322-21	Dipsikha Bhadra	26		
9	213614-11-0028	614-1211-0336-21	Megha Sen	21		
10	213614-11-0031	614-1211-0340-21	Lipika Majhi	25		
11	213614-11-0034	614-1211-0345-21	Riya Tiwari	25		

Moumita Ghosal 29.7.24
Anujit Kamranga 29.7.24
Signature of Internal/External Examiner(s) Signature of Scrutiniser(s) Signature of HE with date & seal



➤ Continuous Internal Examination-

Serampore Girls' College
Continuous Internal Examination – I 2024
Sem – VI
Sub – CMSA
Paper – CC13

Date of Exam – 8/04/2024 Time : 10:30 a.m. to 11:30 a.m

1. Define Software Engineering. 2
2. What are the differences between Hardware and Software? 4
3. What are the different types of Software. Give Examples. 3
4. Define Software Development Life Cycle Model. 2
5. Briefly describe Classical Waterfall SDLC. 5
6. Write two Advantages and two disadvantages of Classical Waterfall Model. 4

Serampore Girls' College
SERAMPORE, HOOGHLY
B.A/B.Sc. ... Examination, 2024
Subject : ...
Full Marks : ...

Roll No.	Paper No.	Roll No.	Paper No.	Roll No.	Paper No.	Roll No.	Paper No.
234	07						
235	10						
236	10						
237	07						
238	18						
239	06						
240	06						
241	07						
242	15						
243	17						
244	11						
245	15						
246	08						
247	06						
248	06						
249	18						

Date : 20.11.24 Moumita Ghosh
Signature of the Examiner

Serampore Girls' College
SERAMPORE, HOOGHLY
B.A/B.Sc. ... Examination, 2024
Subject : ...
Full Marks : ...

Roll No.	Paper No.	Roll No.	Paper No.	Roll No.	Paper No.	Roll No.	Paper No.
2134	13						
2135	09						
2136	17						
2137	17						
2138	17						
2139	17						
2140	17						
2141	17						
2142	17						
2143	17						

Date : 18.4.24 Moumita Ghosh
Signature of the Examiner

➤ Doubt Clearance -

Doubt
Doubt Clearance

Doubt Clearance Class

Dept - CMSM (Major & Minor)
SEM - I
Year - 2023-24
Date - 4/12/2023 Time: 9:45 - 10:45 a.m.
[After CIE 1 & CIE 2]

<u>Roll - NO</u>	<u>Name</u>	<u>Signature</u>
23055	Dipti Dey	Dipti Dey
23057	Isita Santra	Isita Santra
23058	Kusumita Ghosh	Kusumita Ghosh
23060	Nirjala Rom	Nirjala Rom
23481	Chandani Sanyal	Chandani Sanyal
23061	Pubali Majumdar	Pubali Majumdar
23067	Sanyasi Das	Sanyasi Das
23425	Anjali Gha	Anjali Gha

Moumita Ghosal
4.12.23 Head of the Department
Department of Computer Science

Serampore Girls' College
Est. 1961

Serampore Girls' College

Continuous Internal
Evaluation I.E.T. Examination, 2023 Dt. 25/11/23
Subject: CISM Paper: SEC
Name: Kuamita, Ghash Roll No. 23058
Semester: I

25/11/23
Signature of verification
7/20
Mark scored

Define Spreadsheet.

Spreadsheet is a combination of Rows and Columns. In spreadsheet we can calculate, arrange data using many types of functions, formulas and we can Rows lie horizontally and Columns lie vertically. Every cell is the intersection of Rows and Columns. We can also call spreadsheet as a Workbook. It can solve many complicated calculation in the form of charts, graphs and analyse.

Write any two text function in uses of spreadsheet.

1) We can use spreadsheet for complicated calculation by charts, graphs and analyse.

2) We can save many a huge number of data in spreadsheet, so that we can find and use data.

In spreadsheet we can solve complex formulas like $\rightarrow = \text{SUM}(A1:A5)$ Here

5) How formula can be inserted into spreadsheet.

1) In spreadsheet we can insert formula in a cell. *doubt cleared*

2) At first we have to select a cell.

3) We have to type = *Doubt cleared, MG 12.7*

4) Then we have to type the formula. If we want to add some numbers of column, we have

to use SUM. Assume that we want to add the numbers from A1 to A5 then the formula will be

$= \text{SUM}(A1:A5)$

5) After typing the formula we have to click on the cell. Then the total number will be added and appeared in the cell.

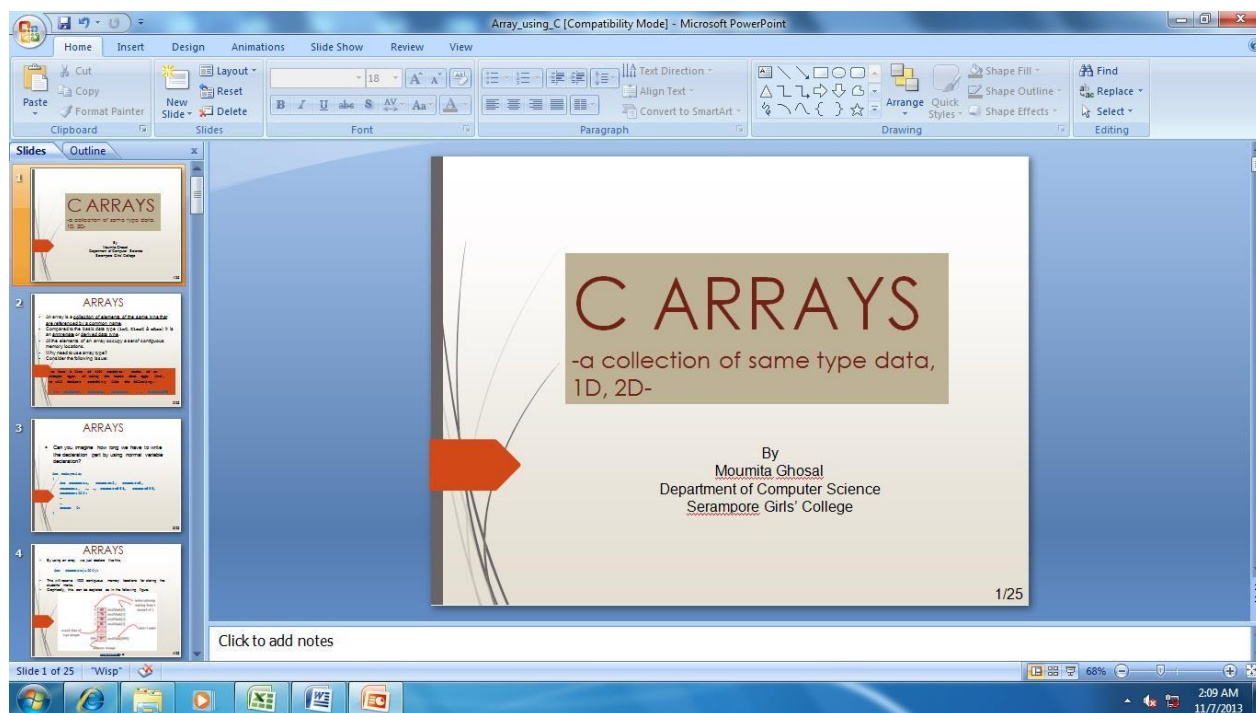
In this way we can insert a formula in spreadsheet.

Write any two text function with proper example.

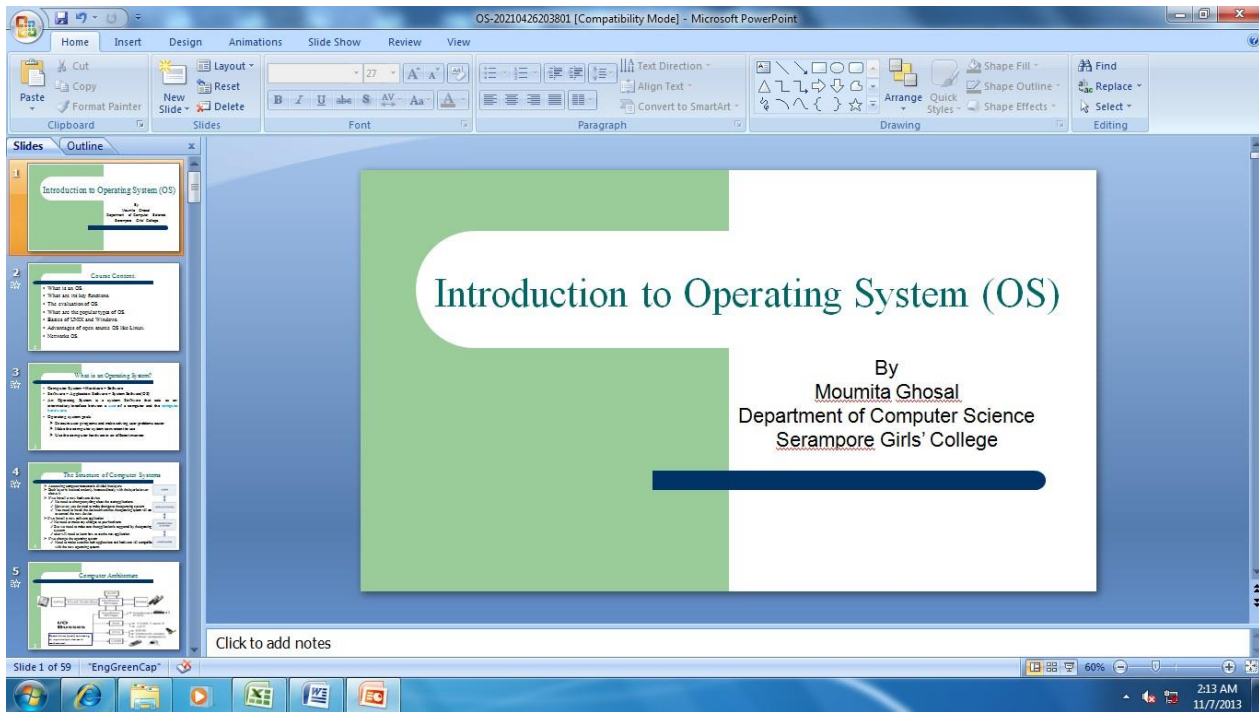
MIN: The formula is $= \text{MIN}(A1:A5)$ Here it presents the smallest number to largest number from A1 to A5.

MAX: The formula is $= \text{MAX}(A1:A5)$ Here it presents the largest number to smallest number from A1 to A5.

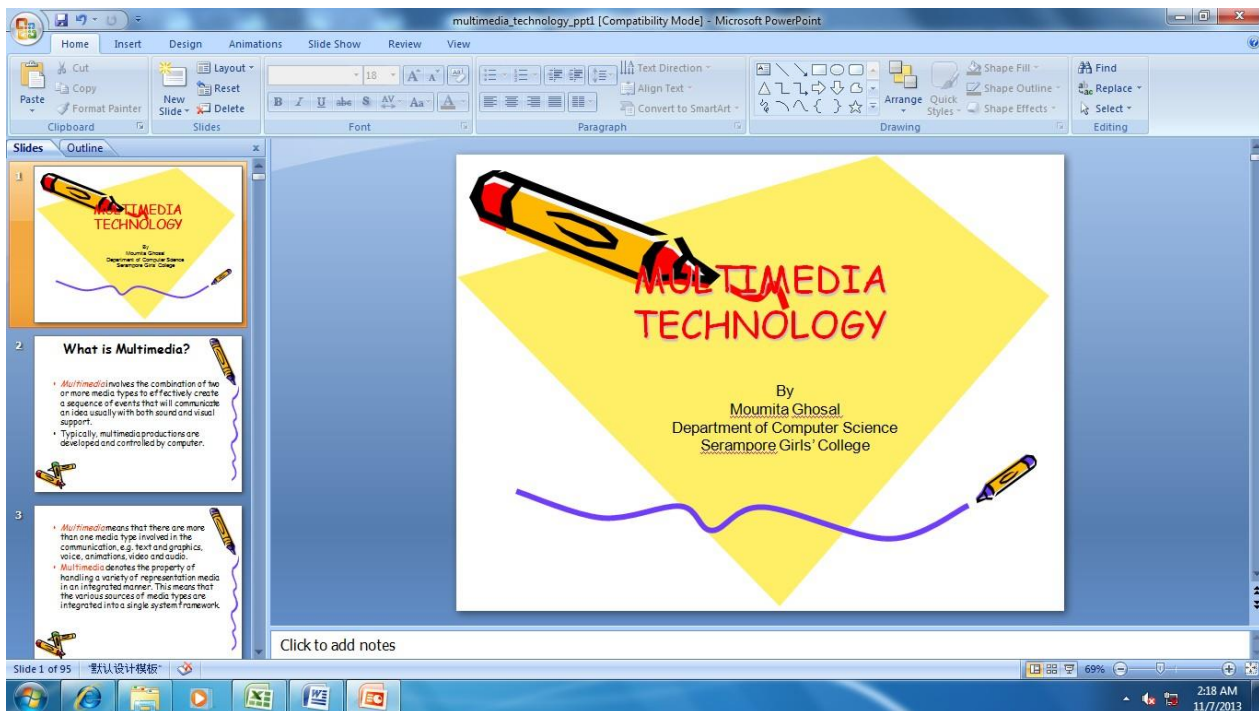
➤ ICT Classes-



ICT for Semester – 2; Date – 26.09.2023; Topic - Array



ICT for Semester – 4; Date – 22.11.2023; Topic – Operating System.





ICT for Semester – 6; Date – 04.04.2024; Topic – Multimedia Technology



8.Final Semester Result :-

SL	CU ROLL	NAME	SGPA	REMARK
1	213614-11-0028	MEGHA SEN	SNC	
2	213614-11-0031	LIPIKA MAJHI	7.082	
3	213614-11-0034	RIYA TIWARI	SNC	
4	213614-11-0019	DIPSIKHA BHADRA	7.060	
5	213614-11-0015	TITASA DUTTA	SNC	
6	213614-11-0018	DIPANWITA BHADRA	8.116	
7	213614-11-0016	POULAMI DUTTA	SNC	
	213614-11-0011	ANJALI PAL	SNC	
	213614-11-0008	SANYUKTA SARDAR	7.706	
	213614-11-0010	SWETA YADAV	7.043	
	213614-11-0013	PRERONA HALDER	7.626	

9.Student Progression to Higher Education:-

1. LIPIKA MAJHI- M.Sc. (Comp. Sc) in Ashutosh College.
2. PRERONA HALDER - M.Sc. (Comp. Sc) in Ashutosh College.

		Asutosh College 92, Shyamaprasad Mukherjee Road. Kolkata. West Bengal. India	
ADMISSION PAYMENT ACKNOWLEDGEMENT RECEIPT			
ADMISSION CHALLAN -	6654	CHALLAN DATE. - 25/11/2024	
NAME - LIPIKA MAJHI			
ROLL-			
AMOUNT - 19250			
FEES TYPE - PG PROVISIONAL ADMISSION FEES		SUBJECT COMPUTER SCIENCE (PG)	
PAYMENT REF- ZHD53GV06UCCOT BILLDESK			
APPLICATION NO. - 2484500153			

		ASUTOSH COLLEGE 92, SHYAMAPRASAD MUKHERJEE ROAD. KOLKATA. WEST BENGAL. INDIA MAIL@ASUTOSHCOLLEGE.IN HTTPS://ASUTOSHCOLLEGE.IN/	
<u>PROVISIONAL IDENTITY CARD</u>			
STUDENT ID			
ROLL NO			
ADMISSION CHALLAN NO.	235354		
APPLICATION NO. -	2484500152		
NAME -	PRERONA HALDER		
ADDRESS -	2 NO GANDHI COLONY, BANDEL		
SUBJECT -	COMPUTER SCIENCE (PG)		
PHONENO -	9831649848	CATAGORY -	GENERAL
WHATSAPP GROUP LINK -			
VALID TILL 31-12-2024			

10. Student get Job:-

Puja Dey in DHL

