

**Project work/field work/ internships**  
**Name of Course: COMPUTER SCIENCE HONOURS PROJECT**  
**Code: CC13 and CC14 (Honours)**  
**Department: Computer Science**  
**2022-2023**

# Criteria 1.3.2



## Serampore Girls College

13, T.C. Goswami Street,  
Serampore, Hooghly – 712201, West Bengal  
Re- Accredited by NAAC : Grade B (2nd Cycle)  
Email: [serampore\\_girls\\_college@yahoo.co.in](mailto:serampore_girls_college@yahoo.co.in)  
Website: [www.seramporegirlscollege.org](http://www.seramporegirlscollege.org)

# Serampore Girls' College

13, T.C. Goswami Street Serampore Hooghly - 712201 West Bengal

## NAAC Criteria 1.3.2



## PROJECT WORK REPORT 2022-2023

### REPORT ON PROJECT WORK OF CC13 and CC14 (COMPUTER SCIENCE)

Academic Session: 2022-2023

SEMSTER: VI ( HONOURS)

**Name of Course: PROJECT WORK**

**Code: CC13 & CC14**

**Location: Serampore Girls' College, WEST BENGAL**

**Course Objective:**

Students will learn about software or website making steps.. Also know about the software maintenance.

**Date of report submission:** yet not submitted (exam will be conducted on 3<sup>rd</sup> August,2023.

**Duration:** 6 months ( 1 semester)

**students enrolled:** 8

**Student submitted:.**8

**Guided by:**

Moumita Ghosal ( Department of Computer Science, Serampore Girls' College)

**Course Outcome:**

- Students were able to learn basic software making details and presentation.

*Soma Roy.*  
Principal  
Serampore Girls' College  
Serampore, Hooghly



### SYLLABUS OF THE COURSE

- N Chandrasekharan, 3<sup>rd</sup> Edition, PHI.  
3. Introduction to Theory of Computation by Micheal Sipser, 3<sup>rd</sup> Edition, Cengage Learning.  
4. Switching and Finite Automata Theory by Zvi Kohavi, Niraj K. Jha, 3<sup>rd</sup> Edition, TMH.  
5. Formal Language and Automata, P. Linz, Narosa

#### **CMS-A-CC-6-14-P: Project Work**

**Core Course-14, Practical, Credit:04, Contact hours: 60.**

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

#### **Discipline Specific Elective Course A: DSE-A**

**CMS-A-DSE-A-3-TH: Embedded Systems**

**DSE-A: Choice-3: Theory, Credit:04, Contact hours: 60.**

<b>Introduction to 8051</b> Overview of Microcontroller, Memory, I/O interface Intel Microcontroller 8051: Architecture, Peripheral Interface Controller (PIC).	<b>15 hours</b>
<b>Assembly Language Programming</b> Instruction set, Addressing Modes, Jump, Loop and Call instructions, I/O Manipulation, Serial communication, Arithmetic and logical instructions.	<b>10 hours</b>
<b>Introduction to Embedded System Programming</b> Data types and time delays, I/O programming, Logic operations, Data conversions, Data serialization, Interrupt programming, LCD and Keyboard interfacing, ADC, DAC, sensors interfacing, interfacing 8255, I/O interfacing for 8051, interfacing 8255, 8257, 8259/ 8279, ADC, DAC, Motor control using 8051 C.	<b>15 hours</b>
<b>Programmable logic devices and Hardware description Language</b> PAL, PLA, PLD, ASIC, FPGA (Qualitative study).	<b>10 hours</b>
<b>Hardware Description Language (VHDL):</b> Basic Terminology, Entity Declaration, Architecture body, Configuration and package declaration, Package body, Model analysis and Simulation. Basic Language elements, Behavioral Model, Dataflow Model, Structural Model, Subprogram and overloading, Applications.	<b>15 hours</b>

**CMS-A-DSE-A-3-P: Embedded Systems Lab.**

**DSE-A: Choice-3, Practical, Credit: 02, Contact hours: 40 hours**

**Practical:** Sample practical problems can be included related to theory.

1. Assembly Language Programming related to Microcontroller 8051.
2. Programming Using Embedded C for 8051.
3. VHDL programs for construction and simulation of various digital circuits.

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## NAAC Criteria 1.3.2



### NOTICE FOR THE PROJECT

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**Serampore Girls' College**  
(Est. : 1981)  
Accredited by NAAC  
13, T. C. GOSWAMI STREET, SERAMPORE, HOOGHLY, PIN-712 201, WEST BENGAL.  
Ph : (033) 2652 9334 • (033) 2652781 (Principal) • 26623723 (Office) • 2652-0008  
E-mail : science@seramporegirlscollege.org • sgc.scdept@gmail.com

**Department of SCIENCE**

Ref. No. .... Date. 01.04.2023

**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	Sohinee Sengupta Soma Das	App Generation	Sri Debkanti Das
Group 2	Prakriti Banerjee Punam Kumari	Student Course Management System	Sri Anjan Goswami
Group 3	Ekta Prasad Swati Paswan	Hotel Reservation System	Ms. Moumita Ghosal
Group 4	Sathi Som Elisha Mitra	Student Progression Management System	Ms. Moumita Ghosal

*Moumita Ghosal*

Department of Computer Science  
Serampore Girls' College  
Dept. of Computer Science  
Serampore Girls' College  
Serampore, Hooghly, W.B.  
Pin-712 201

# SERAMPORE GIRLS' COLLEGE

(ESTD.:1981)



## CERTIFICATE

This is to certify that Soma Das student of  
B.Sc Sem VI Computer Science Honours of Serampore  
Girls' College, Roll No. 203614-11-0021 has  
completed her project titled

Cake & Snacks shop management system

under the guidance of Ms. Moumita Ghosal.

Moumita Ghosal

1.8.23

Signature of the guide



Moumita Ghosal

Signature of Head of the  
Department

# Serampore Girls' College

(Estd: 1981)

Accredited by NAAC

13, T.C. GOSWAMI STREET, SERAMPORE, HOOGHLY, PIN-712201, WEST BENGAL.

Ph: (033) 26529334 • (033) 26527850 (Principal) • 26623723 (Office) • 2652-0008

E-mail : [science@seramporegirlscollege.org](mailto:science@seramporegirlscollege.org) • [sgc.scdept@gmail.com](mailto:sgc.scdept@gmail.com)

## Department of Science

Ref No: \_\_\_\_\_

Date: 1.8.23

### PROJECT COMPLETION CERTIFICATE

#### To Whom It May Concern

This is to certify that Elisha Mitra  
student of B.Sc. Sem VI Computer Science Honours of  
Serampore Girls' College, Roll No. 203614-11-0009  
has completed her project titled Student Progression  
Management System  
under the guidance of Ms. Moumita Ghosal.

Moumita Ghosal.

1.8.23

Signature of the guide  
Serampore Girls' College

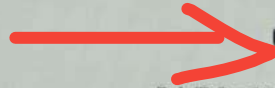


Moumita Ghosal

Signature of Head of the  
Departmental  
Serampore Girls' College

Head of the Department  
Department of Computer Science

AWARD LIST OF UNIVERSITY OF CALCUTTA



UNIVERSITY OF CALCUTTA

Award List (Practical Examination)  
B.A./B.Sc. SEMESTER - VI (Honours) Examination (Under CBCS), 2023

College/Centre : SERAMPORE GIRLS COLLEGE (614)  
Subject : CMSA Course : CC13 Subject Category : HONOURS Assessment Type : Practical  
Course Name : SOFTWARE ENGINEERING AND PROJECT DESIGN & DOCUMENTATION  
Foil No. : 5999 Batch No. : 1

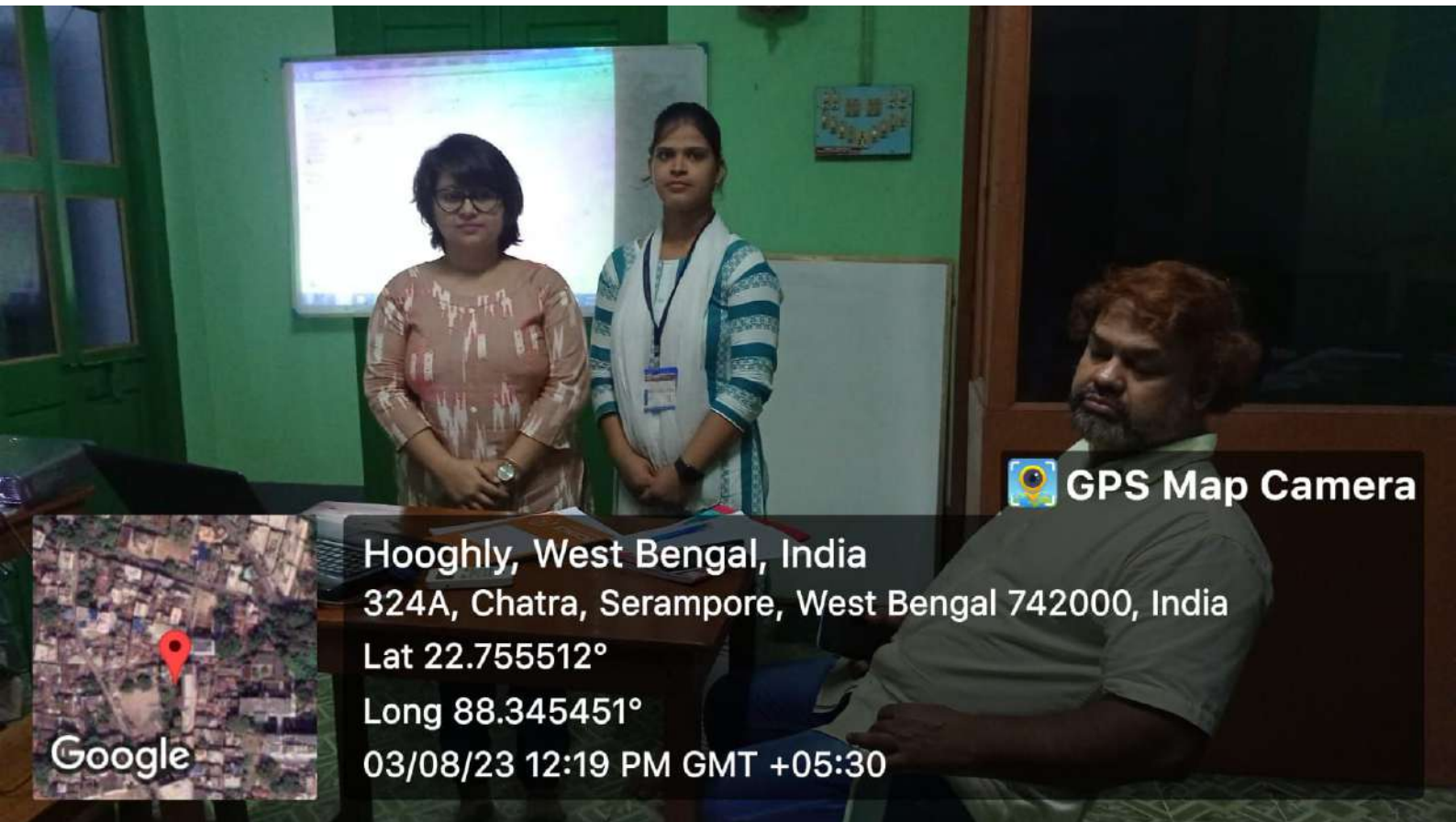
Srl No.	Roll Numbers	Registration Numbers	Signature of Candidates	[FM 30]		
				Marks Obtained		
				Examiner	Scrutineer	HE
1	203614-11-0001	614-1211-0297-20	Sohinee Sengupta	27		
2	203614-11-0009	614-1211-0306-20	Elisha Mitra	28		
3	203614-11-0014	614-1211-0317-20	Swati Paswan	24		
4	203614-11-0020	614-1211-0327-20	Prakruti Banerjee	28		
5	203614-11-0021	614-1211-0332-20	Soma Das	27		
6	203614-11-0038	614-1214-0315-20	Ekta Prasad	24		
7	203614-11-0039	614-1214-0319-20	Sathi Som	28		
8	203614-11-0045	611-1211-0497-17	Punam Kumari	28		

unacademy (Internal)  
Arijit Kamranga

Moumita Ghosal (Internal)  
3.8.23  
Arijit Kamranga 03/08/23

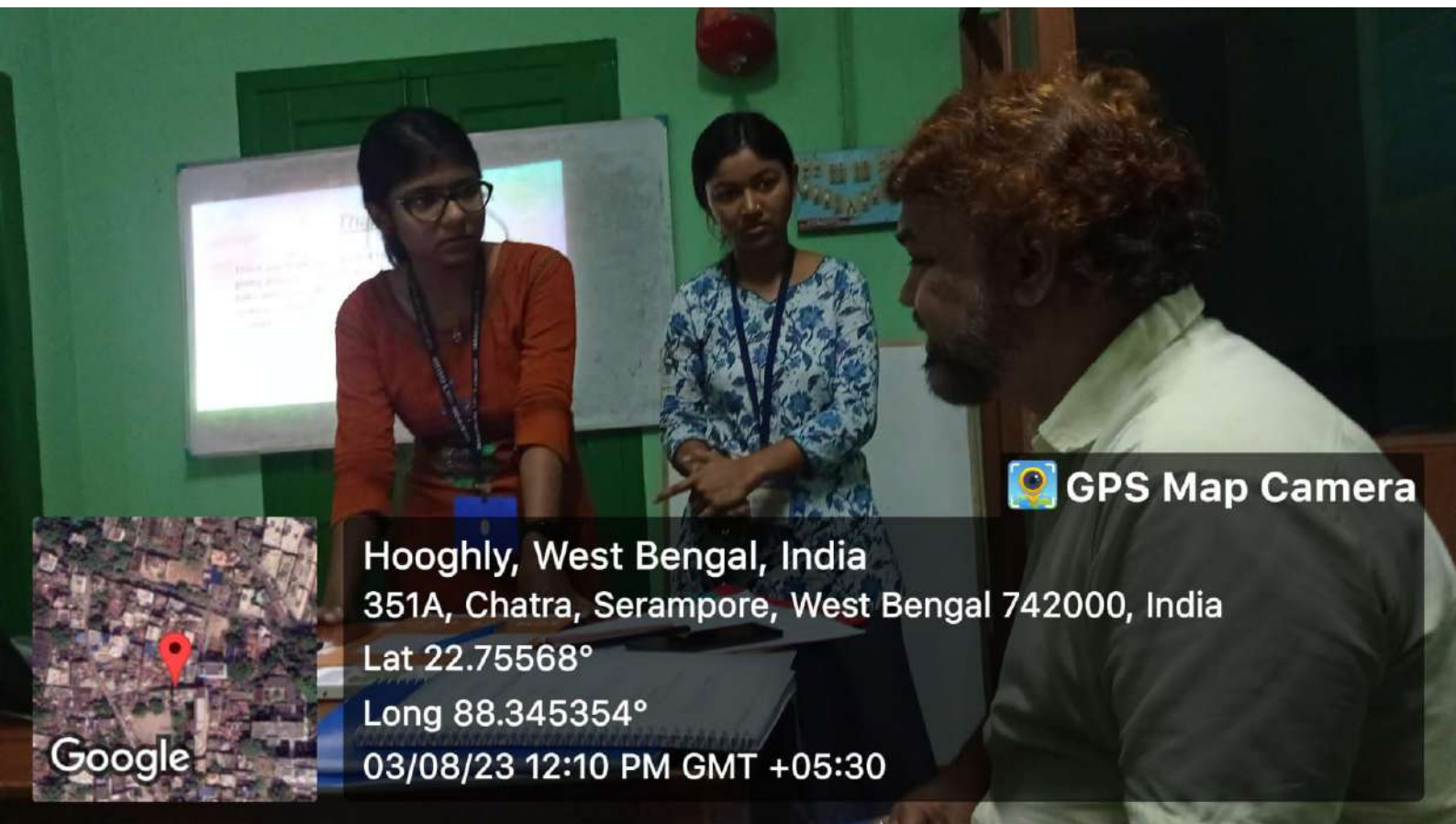
Signature of Internal/External Examiner(s)      Signature of Scrutineer(s)      Signature of HE with date & seal


## STUDENTS DURING FINAL PROJECT PRESENTATION



*Soma Roy.*  
Principal  
Serampore Girls' College  
Serampore, Hooghly

## STUDENTS DURING FINAL PROJECT PRESENTATION



 GPS Map Camera

Hooghly, West Bengal, India  
351A, Chatra, Serampore, West Bengal 742000, India  
Lat 22.75568°  
Long 88.345354°  
03/08/23 12:10 PM GMT +05:30

*Soma Roy.*  
Principal  
Serampore Girls' College  
Serampore, Hooghly

# UNIVERSITY OF CALCUTTA

B.Sc. SEMESTER-VI (HONOURS) Examination-2023

(UNDER CBCS)

**Subject-CMSA CC-13(P)**

**Project Report**

**Student Course Management System**

**Presented By-**

**Prakriti Banerjee**

**Punam Kumari**

**Supervised By:-**

**Mr Anjan Goswami**

# Project Report

## Cake & Snacks Shop management System

*Submitted by*

**Sohinee Sengupta**

Roll Number: 203614-11-0001

Registration Number: 614-1211-0297-20

&

**Soma Das**

Roll Number: 203614-11-0021

Registration Number: 614-1211-0332-20

*Supervised by*

**Ms. Moumita Ghosal**

Assistant Professor,

Department of Computer Science, Serampore Girls' College

*Dept. Of Computer Science*

UNIVERSITY OF CALCUTTA