

SERAMPORE GIRLS' COLLEGE

DEPARTMENT OF CHEMISTRY

DEPARTMENTAL REPORT

2025-2026

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1.Number of Students

Year	Minor
SEM 1	00
SEM 2	00
SEM 3	21
SEM 4	00
SEM 5	12
SEM 6	0

Total Number of Students –**33**

2.No. of Teachers

Guest Teacher–**02**

3.Student- Teacher ratio

17:1

4. Class Routine

Serampore Girls' College Routine –Science (ODD semester)-2025-26(July-December, 2025)

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						
	III						
	V						
Tuesday	I						
	III					MCEM(MM) NB 16	
	V		MCEM CC7(MM) NB 16	MCEM CC7(MM) C LAB	MCEM CC3(MM) C LAB		
Wednesday	I						
	III						
	V				MCEM CC3(SD) C LAB	MCEM CC6(SD) NB 16	MCEM CC6(SD) NB 16
Thursday	I						
	III					MCEM(MM) NB 16	
	V		MCEM CC7(MM) C LAB	MCEM CC4(MM) C LAB			
Friday	I						
	III			MCEM (SD) NB 16			
	V				MCEM CC4(SD) NB 16	MCEM CC7(SD) NB 16	
Saturday	I						
	III		MCEM(MM) NB 16	MCEM(MM) NB 16			
	V				MCEM CC3(MM) CLAB	MCEM CC3(MM) C LAB	

SERAMPORE GIRLS' COLLEGE Routine –Science (EVEN semester)-2025-26

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						
	IV						
	VI						
Tuesday	II					MCEM(MM)	
	IV						
	VI		MCEM(S3)(MM)	MCEM(S3)(MM)	MCEM(S1)(MM)		
Wednesday	II						
	IV				MCEM(SD)	MCEM(SD)	
	VI			MCEM(S1)(SD)			
Thursday	II						
	IV						
	VI		MCEM(S3)(MM)	MCEM(S3)(MM)			
Friday	II						
	IV						
	VI						
Saturday	II						
	IV						
	VI		MCEM(S1)MM	MCEM(S1)MM	MCEM(S3)MM		

5.Departmental Activities

A.Teachers' Day Celebration

Date: 23/12/2025

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

Venue: NB 21

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

Objective: To celebrate Teacher's Day

Number of attendees: Student:26 Teacher:8

Outcome: It enhanced the teacher student relationship





6. Teaching Learning Methods

Continuous Internal Examination (CIE)

Serampore Girls' College					
B.A/B.Sc CIE- Examination, 2025 (4 year/3 year)					
SEM-I and V					
Date	SEM	10:30 -11:30 a.m	12:00-1:00 p.m	1:30-2:30 p.m	3:00-4:00 p.m
10/12/25 Wednesday	I	MAJOR SEC: History, Education, Philosophy, Sanskrit, , Geography, Comp. Sc, Bengali, English, Pol.Sc	MAJOR MN 1: Physics, Economics, Pol. Sc, English, Sanskrit,		
			MDC SUB 2: Bengali, Hindi, Urdu, English, Sanskrit, Pol. Sc. Economics, Physics, Zoology		
	V		MAJOR DSCC 11 History, Education, Philosophy, Sanskrit, , Geography, Comp. Sc, Bengali, English, Pol.Sc	MAJOR MN 4: Philosophy, Education, Music, Sanskrit, History, Geography, Sociology, Pol. Sc, Hindi, Urdu, Economics, Physics, Electronics	MAJOR DSCC 12: History, Education, Philosophy, Sanskrit, , Geography, Comp. Sc, Bengali, English, Pol.Sc
		MDC Sub 1 CC7: History, Education. Sociology, Philosophy, Sanskrit, Music, Phy. Edu, Geography, Botany, Chemistry, Comp. Sc		MDC Minor CC4: History, Education. Sociology, Philosophy, Sanskrit, Pol. Sc. Economics, Geography, Chemistry, Mathematics	

Suman Roy 29/11/25

Principal
Serampore Girls' College

harymahesh 29/11/25

Convenor, Routine Committee
Serampore Girls' College

Serampore Girls' College

B.A/B.Sc CIE- Examination, December, 2025 (4 year/3 year)
SEM-I and V

Date	SEM	10:30 -11:30 a.m	12:00-1:00 p.m	1:30-2:30 p.m	3:00-4:00 p.m
09/12/25 Tuesday	I	MAJOR DSCC 1: History, Education, Philosophy, Sanskrit, , Geography, Comp. Sc, Bengali, English, Pol.Sc	MAJOR MN-1: Philosophy, Education, Music, History,		
			MDC SUB 1: History, education, sociology, philosophy, Music, Phy. Edu. Botany, geography		
	V	MAJOR DSCC 9: History, Education, Philosophy, Sanskrit, , Geography, Comp. Sc, Bengali, English, Pol.Sc		MAJOR MN 3: Philosophy, Education, Music, Sanskrit, History, Geography, Sociology, Pol. Sc, Hindi, Urdu, Economics, Physics, Electronics	MAJOR DSCC 10: History, Education, Philosophy, Sanskrit, , Geography, Comp. Sc, Bengali, English, Pol.Sc
		MDC Sub 1 CC6: History, Education. Sociology, Philosophy, Sanskrit, Music, Phy. Edu, Geography, Botany, Chemistry, Comp. Sc	MDC SUB 2 CC6: Sanskrit, Pol. Sc, Phy. Edu, Bengali, Hindi, Urdu, Economics, English, Zoology, Physics, Electronics	MDC Minor CC3: History, Education. Sociology, Philosophy, Sanskrit, Pol. Sc. Economics, Geography, Chemistry, mathematics	

Sana Pm 29/11/25
Principal
Serampore Girls' College
Serampore, Hooghly

Pragmatish ray 29/11/25
convener route comm

Serampore Girls' College
Continuous Internal Evaluation 2025

Sem-V

Chemistry (CHEM-CC3)

Full Marks: 20

Time: 2.00-3.00pm

Date :09.12.2025

1. Explain why nitrobenzene is used as solvent in friedel crafts alkylation reaction?
2. Difference between friedel crafts alkylation and friedel crafts acylation.
3. Give product and mechanism of nitration in phenol.
4. What do you mean by gauche-butane interaction? Draw the eclipsed and staggered newman projection formula of $\text{CH}_3\text{CH}(\text{OH})\text{CH}(\text{Ph})\text{CH}_3$.

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Sem-V

Chemistry (CHEM-CC4)

Full Marks: 20

Time: 1.30-2.30pm

Date : 10.12.2025

1. Construct M.O diagram of N_2 and explain its inertness.
2. He_2 is unstable but He^+ is stable explain.
3. Which one is paramagnetic between B_2 and C_2 explain with diagram.
4. Compare bond order and bond length of O_2 , O_2^+ , O_2^- , O_2^{2-} .

Madhushree Mal
Signature of the Examiner

Madhuchree Mal
Signature of the Examiner

Serampore Girls' College

Continuous Internal Evaluation 2025

Sem-V

Chemistry (CHEM-CC6)

Full Marks: 20

Time: 10.30-11.30 pm

Date: 09.12.2025

1. Explain the following observations:

Compounds having the general formula $\text{HOCH}_2\text{CH}_2\text{X}$ are found to be stable in their gauche conformations when $\text{X} = \text{OH}, \text{NH}_2, \text{F}, \text{Cl}, \text{Br}, \text{OR}$.

2. Draw the energy profile diagram in butane around $\text{C}_2\text{-C}_3$ bond with leveling Newman projection formula maxima and minima also order of increasing stability explain.

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Continuous Internal Evaluation 2025

Sem-V

Chemistry (CHEM-CC7)

Full Marks: 20

Time: 10.30-11.30 pm
Date : 10.12.2025

1. What are colligative properties? Why are they so called?
2. State and explain Raoult's law for vapour pressure lowering. How the law can be utilised to measure molar mass of a non-volatile solute?
3. The freezing point of a solution of 0.684gm of cane sugar in 100gms of water is -0.037°C . Calculate the freezing point constant of water. Given molecular weight of cane sugar is 342.
4. Explain Vant Hoff's law for osmotic pressure.

