



ST. LAWRENCE HIGH SCHOOL
27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019
Session Plan/Syllabus Coverage for the Academic Year 2026-2027



Subject: CHEMISTRY

Term: FIRST

Subject Co-ordinator: Rudra Prosad Pandit

Name of the Book: ISC CHEMISTRY

No. of Working Days: 38

No. of Periods Available: 43

Class: XII

Sections: A

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHNG AIDS
APRIL	17	1. Solution	Henry's Law. Ideal and non ideal solution. Colligative properties. Determining molecular masses of solutes, abnormal molecular mass association and dissociation, Van't Hoff factor.	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
		2. Haloalkanes and Haloarenes	Haloalkanes: General formula, nomenclature and classification. Nature of C-X bond, physical and chemical properties, mechanism of substitution reactions, optical rotation.	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
MAY	12	2. Haloalkane and Haloarenes(continued)	Chemical properties: nucleophilic substitution Reactions, <i>Reaction with metals: sodium and magnesium Chloroform and iodoform: preparation and properties.</i>	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
		3. d-block and f-block elements	d-Block: 3d, 4d and 5d series, f-Block: 4f and 5f series.	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
JUNE	14	4. d-block and f-block elements (CONTINUED)	Potassium permanganate, Potassium dichromate	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
		5. Electrochemistry	Electrolytic and electrochemical cells. standard electrode potential, Nernst equation, molar conductivity, variations of conductivity with concentration, graphs;	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.

Syllabus of UNIT 1 examination – 1. Solution, 2. Haloalkanes and Haloarenes.

** UT-1 begins from 13th July 2026 **

Teachers are requested to prepare a LESSON PLANS for each Topic month wise. Kindly mention the chapters included for Terminal Examinations.

Signature of the Co-Teachers: 1. RUDRA PROSAD PANDIT

R Pandit

[Signature]

PRINCIPAL

Submitted on: 21/9/26

Academic Coordinator: Soumak Chatterjee

VICE PRINCIPAL

[Signature]



ST. LAWRENCE HIGH SCHOOL
27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019
 Session Plan/ Syllabus Coverage for the Academic Year 2024-2025



Subject: CHEMISTRY

Term: FIRST

Subject Coordinator: RUDRA PROSAD PANDIT

Name of the Book: ISC CHEMISTRY

No. of Working Days: 38, 59+8

No. of Periods Available: 51+7

Class: XII

Sections: A

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHNG AIDS
JULY	24	5. Electrochemistry(Continued)	Kohlrausch's Law of electrolysis and Faraday's Laws of electrolysis. Dry cell, fuel cells, corrosion	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
		6. Chemical Kinetics	Rate of a reaction - average and instantaneous rate. Order and molecularity ,Integrated rate equations and half-life concept of collision theory (elementary idea, Concept of threshold and activation energy, Arrhenius equation.	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
AUG	24	7. Coordination Compound	Concept of complexes, definition of ligand, coordination number, oxidation number. IUPAC nomenclature, Isomerism, Werner's theory, VBT and CFT. Colour, magnetic properties.	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
		8. Alcohols, Phenols and Ethers	Alcohols: Classification, general formula, structure and nomenclature. Methods of preparation, physical and chemical properties Phenols: Classification and nomenclature. Methods of preparation, physical and chemical properties, acidic nature of phenol,	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
SEP	3+7	Revision for Term Examination. Term -1 begins from 7th SEPT 2026 **	All important portions from all chapters include in first term syllabus.	Exercise and Numericals.	
		9. Biomolecules	Carbohydrates – Definition, Classification (aldoses and ketoses), D-L configuration, Proteins – structural units of proteins. Basic idea of - amino acids, peptide bond, Polypeptides. Vitamins - Classification and functions. Nucleic Acids - DNA and RNA.	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.

Syllabus of 1st term Examination: 1. Solution, 2. Haloalkanes and Haloarenes, 3. d-block and f-block elements, 4. Electrochemistry, 5. Chemical Kinetics, 6. Coordination Compound, 7. Alcohols, Phenols and Ethers

Last Date of Submission of Project: 30th October 2026.

Teachers are requested to prepare a LESSON PLANS for each Topic month wise.
 Kindly mention the chapters included for Terminal Examinations.

Signature of the Co-Teachers: 1. RUDRA PROSAD PANDIT

R Pandit

[Signature]

PRINCIPAL

Submitted on: 21/04/26

Academic Coordinator: Soumak Chatterji

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VICE PRINCIPAL

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ST. LAWRENCE HIGH SCHOOL
27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019
 Session Plan/ Syllabus Coverage for the Academic Year 2024-2025



Subject: CHEMISTRY

Term: SECOND

Subject Coordinator: RUDRA PROSAD PANDIT

Name of the Book : ISC CHEMISTRY

No. of Working Days: 8, 41

No. of Periods Available: 7, 35

Class: XII

Sections: A

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
OCTOBER	15	Aldehydes, Ketone and Carboxylic Acids	Aldehydes and Ketone: Nomenclature, structure of methods of preparation of aldehydes and ketone, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes and uses. Carboxylic Acids: Classification, general formula and structure of carboxylic group. Nomenclature, acidic nature, methods of preparation, physical and chemical properties and uses.	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
NOVEMBER	20	Organic Compounds containing Nitrogen.	Aliphatic Amines: General formula and, classification of amines. Structure of the amino group, nomenclature. Methods of preparation, physical and chemical properties, uses. Identification of primary, secondary and tertiary amines. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
		Revision for rehearsal exam.	All important portions from all chapters include in first term syllabus.	Exercise and Numericals.	Model Papers and pyqs.
DECEMBER	Nil	Rehearsal Examination Begins from 1 st December 2026.	Ongoing Examination.	Ongoing Examination.	Ongoing Examination.

Syllabus for rehearsal Examination: 1. Solution, 2. Haloalkanes and Haloarenes, 3. d-block and f-block elements, 4. Electrochemistry, 5. Chemical Kinetics, 6. Coordination Compound, 7. Alcohols, Phenols and Ethers, 8. Aldehydes, Ketone and Carboxylic Acids, 9. Organic Compounds containing Nitrogen, 10. Biomolecules.

Teachers are requested to prepare a LESSON PLANS for each Topic month wise.
 Kindly mention the chapters included for Terminal Examinations.

Signature of the Co-Teachers: 1. RUDRA PROSAD PANDIT

R Pandit.

[Signature]

PRINCIPAL

Submitted on: 21/9/26

Academic Coordinator: *Soumali Chatterjee*

VICE PRINCIPAL

[Signature]