



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-XI

No. of Working Days: 56

No. of Periods Available: 63

Class: XI

Sections: A

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHNG AIDS
APRIL	13	Some Basic Concepts of Chemistry Structure of Atom	Laws of chemical combinations, Empirical and molecular formula, volumetric calculations, Equivalent weight, Terms used in volumetric calculations, limiting reagent Rutherford's nuclear model, Planck's quantum theory, Bohr's atomic model.	Concept related to sub-topics will be discussed and questions and exercise will be done.	Text book, board and interactive session.
MAY	12	Structure of Atom Classification of Elements and Periodicity in Properties	Quantum mechanical model, Quantum numbers, Electronic configuration of elements and ions. Mendeleev's periodic law and its limitations, <i>Modern Periodic Law, Periodic trends in properties of elements.</i>	Concept related to sub-topics will be discussed and questions and exercise will be done	Text book, board and interactive session.
JUNE	14	Classification of Elements and Periodicity in Properties(continued) Chemical Bonding and Molecular Structure	Periodic trends in chemical properties Valence electrons, ionic bond character, covalent bond of ionic bond, covalent bond, bond parameters, Lewis structure, VSEPR theory, geometry of covalent molecules , valence bond theory,	Concept related to sub-topics will be discussed and questions and exercise will be done	Text book, board and interactive session.
JULY	24	Chemical Bonding and Molecular Structure (Continued..) Organic Chemistry: Some basic Principles and Techniques	concept of hybridization involving s, p and d orbitals and shapes of some simple molecules. Coordinate bond. Molecular orbital theory of, hydrogen bond. IUPAC nomenclature of organic compounds and isomerism. Methods of purification, Inductive effect, electromeric effect, resonance and hyperconjugation. Electrophiles and nucleophiles, types of organic reactions.	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. Some Basic Concepts of Chemistry, 2. Structure of Atom

** 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.

Submitted on: 21.09.26

Academic Coordinator: Saumik Chatterjee

PRINCIPAL

[Signature]

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 & SECOND

Subject Co-ordinator: RUDRA PROSAD PANDIT

Name of the Book: ISC CHEMISTRY

No. of Working Days: 56, 36 + 42

No. of Periods Available: 66

Class: XI

Sections: A

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
AUG	24	Chemical Thermodynamics Revision for 1 st Term	Types of system, Properties of the system, Main processes the system undergoes, First Law of Thermodynamics, Significance of first law of thermodynamics. Need for enthalpy, Relationship between Cp and Cv. Second Law of Thermodynamics, Entropy, Gibb's free energy.	Concept related to sub-topics will be discussed and questions and exercise will be done	Text book, board and interactive session.
SEP	3	Revision for 1 st Term ** first term exam begins from 07/09/26**	All important portions from all chapters include in first term syllabus.	Exercise and Numericals.	Text book, board and interactive session.
	7	** Second Term begins from 21/07/26**	Redox Reactions: Concept of oxidation and reduction, redox reactions, oxidation number,	Concept related to sub-topics will be discussed	Text book, board and interactive session.
OCT	15	Redox Reactions	change in oxidation number, balancing redox reactions (in terms of loss and gain of electrons). Applications of redox in various types of chemical reactions.	Concept related to sub-topics will be discussed and questions and exercise will be done	Text book, board and interactive session.
NOV	17	Hydrocarbons	Nomenclature, isomerism, conformation, physical properties, chemical properties including free radical mechanism of halogenations, combustion- Alkane, Alkene, Alkyne. Aromatic Hydrocarbons, Resonance structures, Electrophilic substitution reactions with mechanism..	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. Some Basic Concepts of Chemistry, 2. Structure of Atom, 3. Classification of Elements and Periodicity in Properties, 4. Chemical Bonding and Molecular Structure
 5. Organic Chemistry: Some basic Principles and Techniques, 6. Chemical Thermodynamics.

Syllabus of UNIT 2 examination: 1. Equilibrium, 2. Redox Reactions.

*****Last Date of Submission of Project: 30th November 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.

Submitted on: 21/09/26

Academic Coordinator: Soumali Chatterji

PRINCIPAL

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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 Co-ordinator: RUDRA PROSAD PANDIT

Name of the Book: ISC CHEMISTRY

No. of Working Days: 42, 58

No. of Periods Available: 48

Class: XI

Sections: A

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
DEC	17	Equilibrium (Ionic and Chemical)	Introduction of physical and chemical equilibrium and its characteristics Dynamic nature of equilibrium, law of mass action, equilibrium constant and factors affecting equilibrium. Le Chatelier's principle and its applications. <i>Irreversible and reversible reactions.</i>	Concept related to sub-topics will be discussed and questions and exercise will be done	Text book, board and interactive session.
JAN	22	Equilibrium (Ionic and Chemical) continued.. Revision	Introduction, electrolyte (strong and weak), non-electrolyte, ionization, degree of ionization of polybasic acids, acid strength, concept of pH, pH indicators, buffer solution, common ion effect (with illustrative examples). Henderson equation, hydrolysis of salts, solubility and solubility product.	Concept related to sub-topics will be discussed and questions and exercise will be done	Text book, board and interactive session.
FEB	09	Revision	All important portions from all chapters include in first term syllabus.	Concept related to sub-topics will be discussed and questions and exercise will be done	Text book, board and interactive session.
MAR	NIL	Final Term Examination	Ongoing Examination.	Ongoing Examination.	Ongoing Examination.

Syllabus for Final Term Examination: 1. Some Basic Concepts of Chemistry, 2. Structure of Atom, 3. Classification of Elements and Periodicity in Properties, 4. Chemical Bonding and Molecular Structure
 5. Organic Chemistry: Some basic Principles and Techniques, 6. Chemical Thermodynamics, 7. Equilibrium, 8. Redox Reactions, 9. Hydrocarbon

**** Second term exam begins from 15th February 2027****

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.

Submitted on: 21/09/26

Academic Coordinator: Saumak Chatterjee

PRINCIPAL

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VICE PRINCIPAL

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