

**Teaching Syllabus of Chemistry Department**  
**2024-2025**

**Class: S.3 First Term**

Month	September	October	November	December
No. of teaching days	20	19	20	2
Chapters no. of textbooks	Laboratory Safety / Evacuation drills (1 <sup>st</sup> Lab. Session)  Fundamentals of chemistry (Phy / Chem changes and properties / mixture and compound)	Ch. 5 Atomic structure  Ch. 6 The Periodic Table  <b>(Assessment)</b>	Ch. 6 The Periodic Table  Ch. 7 Ionic bonding and Metallic bonding	Revision  Half-yearly Examination
Remarks:	<b>ARISTO Textbook 1B + 1C</b>			

### Teaching Syllabus of Chemistry Department

Class: S.3 Second term

Month	January	February	March	April	May	June
No. of teaching days	14	14	22	10	18	2
Chapters no. of textbook	Ch. 7 Ionic bonding and metallic bonding	Ch. 8 Covalent bonding  Ch. 10 Occurrence and extraction of metals	Ch. 10 Occurrence and extraction of metals  Ch. 11 Reactivity of metals <b>(Assessment)</b>	Ch. 11 Reactivity of metals	Ch.13 Corrosion of metals and their protection	Revision  Final Examination
Remarks:	<b>ARISTO Textbook 1B + 1C</b>					

## Teaching Syllabus of Chemistry Department

Class: S.4 First term

Month	September	October	November	December
No. of teaching days	19	19	20	2
Chapters no. of textbook	Laboratory Safety / Evacuation drills (1 <sup>st</sup> Lab. Session)  <b>Revision test of ionic and covalent bonding and structures</b> Ch.9 Structures and properties of Substances  Ch. 29 Simple Chemical Cells	Ch. 29 Simple Chemical Cells (Con't) <b>(Assessment I)</b>  Ch. 30 Redox reactions (exclude oxidizing properties of sulphuric acid and nitric acid)  Ch. 31 Redox reactions in chemical cells	<b>(Assessment II)</b>  Ch. 28 Chemical cells in daily life  Ch.32 Electrolysis	Revision  Half-yearly Examination
Remarks:	<b>ARISTO Textbook 1A + 1B + 2 + 3B</b>			

## Teaching Syllabus of Chemistry Department

Class: S.4 Second term

Month	January	February	March	April	May	June
No. of teaching days	14	14	22	10	18	2
Content Chapter no. of textbook	Ch.12 Reacting masses  Ch.15 Concentration of solution	Ch.14 Acids and alkalis  Ch 16 Indicator and pH	Ch 17 Strength of acids  (Assessment I)  Ch.18 Salts and neutralization  Ch.19 Volumetric Analysis	Ch.19 Volumetric Analysis (Con't)	(Assessment II)  Ch. 20 Hydrocarbons from fossil fuels  Ch 21 Homologous series	Revision POST EXAM EXTRA LESSONS  Ch. 36 Rate of chemical reaction Ch. 37 Factors affecting rate of reaction
Remarks:	ARISTO Textbook 1A + 1B + 2 + 3B					

## Teaching Syllabus of Chemistry Department

Class: S.5 First term

Month	September	October	November	December
No. of teaching days	19	19	20	2
Chapters no. of textbook	Laboratory Safety / Evacuation drills (1 <sup>st</sup> Lab. Session) <b>Revision of Volumetric analysis / VA experiments</b>  Ch. 36-37 Rate of chemical reaction Factors affecting rate of reaction  Ch. 38 Gas volume calculations	<b>(Assessment I)</b>  Ch. 24-26 Shape of molecules and Intermolecular force	Ch 27. Structures and properties of molecular crystals  <b>(Assessment II)</b>  Ch. 22 Alkanes and alkenes	Revision
Remarks:	<b>ARISTO Textbook 2 + 3A + 3B + 4A + 4B</b>			

## Teaching Syllabus of Chemistry Department

**Class: S.5 Second term**

Month	January	February	March	April	May	June
No. of teaching days	14	14	22	10	18	2
Chapter no. of textbook	Ch. 23 Addition polymers  Ch. 43 Isomerism	<b>(Assessment I)</b>  Ch. 42 Introduction to selected homologous series	Ch. 44 Typical reactions of selected functional groups	Ch. 45 Synthesis of carbon compounds  Ch. 46 Important organic substances <b>Extra lessons in Easter holiday (Assessment II)</b>	Ch. 34 Energy changes in chemical reactions  Ch. 35 Hess's Law and its applications	(Post exam period and summer tutorials) Ch. 39 An introduction to chemical equilibrium  Ch. 40 Factors affecting chemical equilibrium systems
Remarks:	<b>ARISTO Textbook 2 + 3A + 3B + 4A + 4B</b>					

## Teaching Syllabus of Chemistry Department

**Class: S.6 First term**

Month	September	October	November	December
No. of Teaching Days	19	19	20	2
Chapters of textbook	Evacuation drills (1 <sup>st</sup> lab. session) Ch. 41 Periodic trends in elements and compounds Ch.42 The transition metals  <b>Assessment I</b> <b>Assessment II</b>	Ch. 50 Importance of industrial process Ch. 51 Rate equation Ch.52 Activation Energy Ch.53 Catalysis and industrial processes Ch.54 Industrial processes <b>Assessment III</b> <b>Assessment IV</b>	Ch. 55 Green Chemistry Ch. 61 Detecting the presence of chemical species Ch. 63 Quantitative methods of analysis Ch. 64 Instrumental Analytical methods <b>Assessment V</b>	
Remarks	<b>ARISTO Textbook 5 and 7</b>			

### Teaching Syllabus of Chemistry Department

Class: S.6 Second Term

Month	January	February	March	April	May	June
No. of Teaching Days	14	-	-	-	-	-
Chapters of textbook	Ch. 62 Separation and purification methods Ch. 65 Contribution of analytical chemistry to our society <b>(Assessment VI)</b>	First Mock Examination	Second Mock Examination			
Remarks	<b>ARISTO Textbook 5 and 7</b>					

**END**