

SWAMI VIVEKANAND GOVT P.G. COLLEGE LOHAGHAT (CHAMPAWAT)

DEPARTMENT OF CHEMISTRY

Teaching Action Plan

Academic session 2021-22

(NEW SUYLLABUS)

B.Sc. I SEMESTR

PAPER I

ORGANIC CHEMISTRY		
UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Structure and Bonding	04
02	Mechanism of Organic Reactions	07
03	Stereochemistry of Organic Compounds	07
04	Alkanes and Cycloalkanes	07
05	Alkenes, Cycloalkenes, Dienes and Alkynes	07
06	Arenes and Aromaticity	07
NOTE- Number of periods for completion of above mentioned content of syllabus may be increase or decrease during online classes.		

PAPER II

INORGANIC CHEMISTRY		
UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Atomic Structure	07
02	Periodic Properties	05
03	Chemical Bonding-I	08
04	Ionic Solids	05
05	s-Block Elements	06
06	s-Block Elements	08
NOTE- Number of periods for completion of above mentioned content of syllabus may be increase or decrease during online classes.		

B.Sc. II SEMESTR

PAPER I

INORGANIC CHEMISTRY		
UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Chemical Bonding-II	08
02	Redox Reactions	07
03	Coordination Chemistry-I	09
04	Chemistry of Transition Elements (First Transition Series)	06
05	Chemistry of Transition Elements (Second and Third Series)	05

06	Metallurgical Processes	04
NOTE- Number of periods for completion of above mentioned content of syllabus may be increase or decrease during online classes.		

PAPER II

PHYSICAL CHEMISTRY		
UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Gaseous State	12
02	Solid State	08
03	Colloidal State	08
04	Chemical Kinetics and Catalysis	12
NOTE- Number of periods for completion of above mentioned content of syllabus may be increase or decrease during online classes.		

B.Sc. III SEMESTR

PAPER I

ORGANIC CHEMISTRY		
UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Alkyl and Aryl Halides	07
02	Alcohols	05
03	Phenols	05
04	Ethers and Epoxides	05
05	Aldehydes and Ketones	07
06	Carboxylic Acids; Carboxylic acid derivatives	10
NOTE- Number of periods for completion of above mentioned content of syllabus may be increase or decrease during online classes.		

PAPER II

PHYSICAL CHEMISTRY		
UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Thermodynamics- I	12
02	Chemical Equilibrium	08
03	Thermochemistry	12
04	Surface Chemistry	8
NOTE- Number of periods for completion of above mentioned content of syllabus may be increase or decrease during online classes.		

B.Sc. IV SEMESTR

PAPER I

INORGANIC CHEMISTRY

UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Chemistry of Lanthanides	05
02	Chemistry of Actinides	07
03	Acids and Bases	06
04	Hard and Soft Acid-Base Theory	07
05	Non Aqueous Solvents	05
06	Bioinorganic Chemistry	08

NOTE- Number of periods for completion of above mentioned content of syllabus may be increase or decrease during online classes.

PAPER II**ORGANIC CHEMISTRY**

UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Electromagnetic Spectrum: Absorption Spectroscopy	08
02	Nitrogen Containing Organic Compounds	08
03	Organic Synthesis via Enolates	05
04	Organo-Metallic Compounds	05
05	Synthetic Dyes	05
06	Heterocyclic Compounds	08

NOTE- Number of periods for completion of above mentioned content of syllabus may be increase or decrease during online classes.

B.Sc. V SEMESTR**PAPER I****PHYSICAL CHEMISTRY**

UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Thermodynamics II	12
02	Solutions and Colligative Properties	08
03	Photochemistry	08
04	Energy and Distribution Law	06
05	Thermodynamics III	06

NOTE- Number of periods for completion of above mentioned content of syllabus may be increase or decrease during online classes.

PAPER II**INORGANIC CHEMISTRY**

UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Thermodynamic and Kinetic Aspects of Coordination Compounds	05
02	Coordination Chemistry-II	08
03	Magnetic Properties of Transition Metal Complexes	07

04	Electronic Spectra of Transition Metal Complexes	07
05	Organometallic Chemistry	07
06	Inorganic Polymers of Silicon and Phosphorus	05
NOTE- Number of periods for completion of above mentioned content of syllabus may be increase or decrease during online classes.		

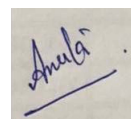
B.Sc. I SEMESTR

PAPER I

ORGANIC CHEMISTRY		
UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Spectroscopy	08
02	Carbohydrates	07
03	Amino Acids, Peptides, Proteins and Nucleic Acids	07
04	Fats, Oils and Detergents	06
05	Synthetic Polymers	06
06	Natural Products	05
NOTE- Number of periods for completion of above mentioned content of syllabus may be increase or decrease during online classes.		

PAPER II

PHYSICAL CHEMISTRY		
UNIT	CONTENT OF SYLLABUS	REQUIRED PERIOD
01	Electrochemistry I	10
02	Electrochemistry II	08
03	Phase Equilibrium	08
04	Elementary Quantum Mechanics 8	08
05	Spectroscopy	06
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