

LESSON PLAN: CHEMISTRY

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4 YEAR B.SC. DEGREE COURSE and 3 YEAR B.SC. COURSE (MDC): SEM1 & SEM3

Semester	Programme	Course Code	Topic	Teachers	No. of Hours	Marks	
1	Major	CHEM-H-CC1-1-Th	Extra nuclear structure of atoms	SB	08	12	
			Periodicity	SG	07	13	
			Basics of organic Chemistry Bonding and Physical Properties	PR	15	25	
			Thermodynamics-I and Chemical Kinetics-I	IS	15	25	
		CC 1-1-P	Acid-base titration, Oxidation-Reduction titrimetry		SG	30	25
		SEC 1-1-TH	Titrimetric analysis, Acid-base titrimetry, Redox titrimetry, Precipitation titrimetry		SB	10	15
			Complexometric titrimetry, Water analysis, Water treatment technology		AS	09	15
			Introduction to Quantitative analysis and its interdisciplinary nature, Gravimetric analysis		SG	19	30
			Water treatment technology and Basic Laboratory Practices		IS	07	15
		SEC 1-1-Tu	TUTORIAL		SB,AS,IS,SG		25
		CHEM-H-IDC 1-1-TH	Titrimetric analysis, Acid-base titrimetry, Redox titrimetry, Precipitation titrimetry, Complexometric titrimetry		SB,AS,IS,SG		50
			Introduction to Quantitative analysis and its interdisciplinary nature, Water analysis, Water treatment technology, and Basic Laboratory Practices				
		CHEM-H-IDC 1-1-Tu	TUTORIAL		SB,AS,IS,SG	15	25

3	Minor / MDC	CHEM-H-CC1-1-Th and CHEM-MD-CC1-1-Th	Extra nuclear structure of atoms and Periodicity		SB	15	25
			Basics of organic Chemistry Bonding, Physical Properties and Stereochemistry-I		PR	15	25
			Thermodynamics-I and Chemical Kinetics-I		AS	15	25
		CC1-1-P	Acid-base titration, Oxidation-Reduction titrimetry		AS,IS	30	25
	MDC	CHEM-MD-SEC-Th	Chmistry in Daily Life - Theory	Module-1	SB	15	25
				Module-2	PR	15	25
				Module-3	IS	15	25
		CHEM-MD-SEC-Tu	Chemistry in Daily Life -Tutorial	Estimation of Vitamin C	SB	15	25
				Determination of saponification number of oil.	PR		
				Determination of Iodine number of oil.	IS		
	MD-IDC	IDC 1-1-Th	Chemistry in daily life-Module-I		SB	10	25
			Chemistry in daily life-Module-II		AS	10	25
			Chemistry in daily life-Module-III		IS	10	25
		SEC 1-1-Tu	TUTORIAL		SB,AS,IS	15	25
	Major	CC 3-3-Th+P	Physical Chemistry ELECTROCHEMISTRY-I	Conductance	AS	9	
Ionic Equilibrium				AS	8		
	CC 3-3-Th+P	Physical Chemistry Thermodynamics II Application of thermodynamics-I	Chemical Equilibrium	IS	12		
	CHEM-H-CC3-3-P						

		CHEM-H-CC4-3-Th	Organic Chemistry I Aromatic Substitution, Substitution and Elimination Reactions, Chemistry of alkenes and alkynes		PR	45	75
		CHEM-H-CC4-3-P	Identification of Single Organic Compounds.		PR	30	25
		CHEM-H-SEC3-3-Th	Chemistry in Daily Life - Theory	Module-1	SB	45	75
				Module-2	PR		
				Module-3	IS		
				Module-3	SG		
		CHEM-H-SEC3-3-Tu	Chemistry in Daily Life -Tutorial	Estimation of Vitamin C	SB	15	25
				Determination of saponification number of oil.	PR		
				Determination of Iodine number of oil.	IS		
				Determination of methyl alcohol in alcoholic beverages	SG		
	Minor	CHEM-H-CC1-3-Th	Extra nuclear structure of atoms		SB	8	25
			Periodicity		SG	7	
			Basics of organic Chemistry Bonding, Physical Properties and Stereochemistry-I		PR	15	25
			Thermodynamics-I and Chemical Kinetics-I		AS	15	25
	MDC	CHEM-MD-CC3-3-Th	Organic Chemistry	Module-1	PR	20	25
				Module-2	IS	15	25
				Module-3	SG	15	25
		CHEM-MD-CC3-3-P	Identification of pure single Organic Compound		PR	30	25
	MDC	CHEM-MD-SEC-Th	Chemistry in Daily Life - Theory	Module-1	SB	45	75
				Module-2	PR		
				Module-3	IS		
		CHEM-MD-SEC-Tu	Chemistry in Daily Life -Tutorial	Estimation of Vitamin C	SB	15	25
	Determination of saponification number of oil.			PR			
	Determination of Iodine number of oil.			IS			
	IDC	IDC 3-3-Th	Chemistry in Daily Life		SB, IS, AS	45	75

		IDC 3-3- Tu	TUTORIAL	SB, IS, AS	15	25
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B.SC. CBCS HONOURS AND GENERAL: SEM 5

5	Hons	CC-11 Th Physical Chemistry	Statistical Thermodynamics, Numerical Analysis	IS	30	30
			Quantum chemistry II,	AS	30	30
		CC-11 P	Computer Programming	AS	45	30
		CEMA-CC-5-12-TH Organic Chemistry 5	Cyclic Compounds, Biomolecules	PR	60	50
		CEMA-CC-5-12-P	Chromatographic Separations and Spectroscopic Analysis of Organic Compounds	PR	45	30
		DSE-A2- Th	Application of computer in Chemistry	AS	60	50
		DSE-A2- P	Application of computer in Chemistry	AS	45	30
		DSE-B1-Th	Inorganic materials of industrial importance	SB	30	50
			Inorganic materials of industrial Importance: Surface Coatings, Alloys, Catalysis, Chemical explosives.	SG	30	
		DSE-B1- P	Inorganic materials of industrial importance	SB	45	30
5	General	DSE-A2-Th	Inorganic materials of industrial importance	SB	30	50

			Inorganic materials of industrial Importance: Surface Coatings, Alloys, Catalysis, Chemical explosives.	SG	30	
		DSE-A2-P	Inorganic materials of industrial Importance	SG	45	30

