

BRAHMANANDA KESHAB CHANDRA COLLEGE**DEPARTMENT OF CHEMISTRY****LESSON PLAN (APRIL – AUGUST, 2021)-SEMESTER II (Honours)**

COURSE	PAPER CODE	TOPICS TO BE COVERED	NAME OF THE TEACHER	NO OF CLASSES / LECTURES	MARKS	CLASS TEST/ INTERNAL ASSESSMENT
CC3	CEMACOR03T : INORGANIC CHEMISTRY-I	Extra nuclear Structure of atom	AMIT MONDAL	18	14	CLASS TEST:
		Chemical periodicity	AMIT MONDAL	08	10	CLASS TEST:
		Acid-Base reactions	PUTUL CHAKROBORTI	16	12	CLASS TEST:
		Redox Reactions and precipitation reactions	PUTUL CHAKROBORTI	18	14	
	CEMACOR01P : INORGANIC CHEMISTRY-I LAB		AMIT MONDAL	60	25	

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CC4	CEMACOR04T : ORGANIC CHEMISTRY-II	Stereochemistry II	K.K.Nandi	20	16	CLASS TEST:
		General Treatment of Reaction Mechanism II	Anshupriya Shome	22	18	CLASS TEST:
		Substitution and Elimination Reactions	Anshupriya Shome	18	16	CLASS TEST:
	CEMACOR04P : ORGANIC CHEMISTRY-II LAB		Anshupriya Shome	60	25	

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DEPARTMENT OF CHEMISTRY

LESSON PLAN (APRIL – AUGUST, 2021)-SEMESTER IV (Honours)

COURSE	PAPER CODE	TOPICS TO BE COVERED	NAME OF THE TEACHER	NO OF CLASSES / LECTURES	MARKS	CLASS TEST/ INTERNAL ASSESSMENT
CC8	<i>CEMACOR08T:</i> PHYSICAL CHEMISTRY-III	Application of Thermodynamics – II i) Colligative properties ii) Phase rule iii) Binary solutions	SWARUP MANNA	20	18	CLASS TEST:
		Electrical Properties of molecules i) Ionic equilibria ii) Electromotive Force iii) Dipole moment and polarizability	DIPANKAR MONDAL	20	18	CLASS TEST:
		Quantum Chemistry i) Angular momentum ii) Qualitative treatment of hydrogen atom and hydrogen-like ions: iii) LCAO and HF-SCF:	MANASI BASU	20	14	CLASS TEST:
	<i>CEMACOR08P:</i> PHYSICAL CHEMISTRY-III-LAB		SWARUP MANNA DIPANKAR MONDAL	60	25	

COURSE	PAPER CODE	TOPICS TO BE COVERED	NAME OF THE TEACHER	NO OF CLASSES / LECTURES	MARKS	CLASS TEST/ INTERNAL ASSESSMENT
CC9	CEMACOR09T: INORGANIC CHEMISTRY-III	General Principles of Metallurgy	PUTUL CHAKROBORTI	6	12	
		Chemistry of <i>s</i> and <i>p</i> Block Elements	AMIT MONDAL	30	26	
		Coordination Chemistry-I	PUTUL CHAKROBORTI	24	12	
	CEMACOR09P: INORGANIC CHEMISTRY-III-LAB		PUTUL CHAKROBORTI	60	25	

COURSE	PAPER CODE	TOPICS TO BE COVERED	NAME OF THE TEACHER	NO OF CLASSES / LECTURES	MARKS	CLASS TEST/ INTERNAL ASSESSMENT
CC10	CEMACOR10T : ORGANIC CHEMISTRY-IV	Nitrogen compounds	Anshupriya Shome	12	08	CLASS TEST:
		Rearrangements	Anshupriya Shome	14	10	CLASS TEST:
		The Logic of Organic Synthesis	Anshupriya Shome +K.K.Nandi	14	12	CLASS TEST:
		Organic Spectroscopy	K.K.Nandi	20	20	
	CEMACOR10P : ORGANIC CHEMISTRY-IV LAB		K.K.Nandi	60	25	

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COURSE	PAPER CODE	TOPICS TO BE COVERED	NAME OF THE TEACHER	NO OF CLASSES / LECTURES	MARKS	CLASS TEST/ INTERNAL ASSESSMENT
CC13	CEMACOR13T : INORGANIC CHEMISTRY-V	Bioinorganic Chemistry	PUTUL CHAKROBORTI	24	20	CLASS TEST:
		Organometallic Chemistry	AMIT MONDAL	24	20	CLASS TEST:
		Reaction Kinetics and Mechanism	PUTUL CHAKROBORTI	12	10	CLASS TEST:
	CEMACOR13P : INORGANIC CHEMISTRY-V-LAB		PUTUL CHAKROBORTI	60	25	

COURSE	PAPER CODE	TOPICS TO BE COVERED	NAME OF THE TEACHER	NO OF CLASSES / LECTURES	MARKS	CLASS TEST/ INTERNAL ASSESSMENT
CC14	CEMACOR14T : PHYSICAL CHEMISTRY-IV	Molecular Spectroscopy	MANASI BASU	25	20	CLASS TEST:
		Photochemistry	DIPANKAR MONDAL	15	14	CLASS TEST:
		Surface phenomenon	SWARUP MANNA	20	16	CLASS TEST:
	CEMACOR14T : PHYSICAL CHEMISTRY-IV-LAB		MANASI BASU DIPANKAR MONDAL	60	25	

COURSE	PAPER CODE	TOPICS TO BE COVERED	NAME OF THE TEACHER	NO OF CLASSES / LECTURES	MARKS	CLASS TEST/ INTERNAL ASSESSMENT
DSE04	CEMADSE04T: GREEN CHEMISTRY	Introduction to Green Chemistry:	K.K.Nandi	04	06	CLASS TEST:
		Principles of Green Chemistry and Designing a Chemical synthesis:	K.K.Nandi	30	22	CLASS TEST:
		Examples of Green Synthesis/ Reactions and some real world cases:	Anshupriya Shome	16	12	CLASS TEST:
		Future Trends in Green Chemistry:	Anshupriya Shome	10	10	
	CEMADSE04P: GREEN CHEMISTRY-LAB		K.K.Nandi + Anshupriya Shome	60	25	

COURSE	PAPER CODE	TOPICS TO BE COVERED	NAME OF THE TEACHER	NO OF CLASSES / LECTURES	MARKS	CLASS TEST/ INTERNAL ASSESSMENT
DSE06	CEMADSE06T: POLYMER CHEMISTRY	Introduction and history of polymeric materials:	SWARUP MANNA	04	04	CLASS TEST:
		Functionality and its importance::		08	06	CLASS TEST:
		Kinetics of Polymerization:		08	06	CLASS TEST:
		Crystallization and crystallinity:		04	04	
		Nature and structure of polymers:		04	04	
		Determination of molecular weight of polymers:		08	06	
		Glass transition temperature (Tg) and determination of Tg:		08	04	
		Polymer Solution:		08	06	
		Properties of Polymer		10	10	
	CEMADSE06T: POLYMER CHEMISTRY - LAB			60	25	