

Lesson Plan

Name of Faculty :	Ms. Rajni Narang (Theory) Ms. Rajni Narang (Practical)		
Discipline :	B. Tech		
Semester :	2 nd		
Subject :	Chemistry		
Lesson Plan Duration :	15 weeks (from January, 2018 to April, 2018)		

Work Load (Lecture/ Practical) per week (in hours) : Lectures- 03, Practicals-02

Week	Theory		Practical	
	Lecture	Topic (including assignment/test)	Practical Day (2	Торіс
₁ st		Dhasa Dula	lectures each day)	Canalysistematics
L	1.	Terminology, examples	1 st	Conductometry
	nd			
	2""	Derivation of Gibbs's Phase rule		
		equation, applications, drawbacks		
	3 ^{ra}	One component system (H ₂ O System)		
	4 th	Two-component system	2 nd	Eutectic point
2 nd	5 th	Eutectic system (Pb-Ag)		
	6 th	System with congruent melting point (Zn-Mg)		
3 rd	7 th	Applications of above systems,		Preparation of PF
		thermal analysis	3 rd	and UF Resins .
	8 th	Assignment		
	9 th	Polymers and Polymerization:		
		Introduction & Classification of		
		polymers, effect of structure on		
		properties of polymers		
		biodegradable polymers		
4 th	10^{th}	Biodegradable polymers,	4 th	Lab test and viva
		preparation, properties and		
		technical application of thermo-		
		plastics (PVC, PE, Teflon)		
	11 th	Thermosets (PF, UF), elastomers (SBR,GR – N)		
	12 th	Silicones, introduction to polymeric		
		composites		
5 th	13 th	Introduction to polymeric	5 th	Determination of
		composites, problems		Alkalinity
	14 th	Assignment		
	15 th	Water Treatment-1:		
		Hardness and its		



		determination(EDTA method), units		
		of hardness		
6 th	16 th	Alkalinity of water	6 th	Determination of
	17 th	Scale and sludge formation		Hardness
		(composition, properties and		
		prevention)		
	18 th	Numerical Problems		
7 th	19 th	Numerical Problems	7 th	Determination of
	20 th	Boiler corrosion, caustic		TDS
		embrittlement		
	21 st	Lime-Soda process, zeolite process		
8 th	22 nd	Ion-exchange process, mixed bed	8 th	Determination of
		demineralization		Dissolved Oxygen
	23 rd	Problems related to above topics		
	24 th	Class Test		
9 th	25 th	Corrosion and Its Prevention:	9 th	Lab test and viva
	_	Dry corrosion, Electrochemical	-	
		theory of corrosion		
	26 th	Soil corrosion. microbiological		
		corrosion		
	27 th	Types of corrosion, galvanic		
		corrosion. differential aeration		
		corrosion		
10 th 2	28 th	Stress corrosion, factors affecting	10 th	Determination of
		corrosion		viscosity by
	29 th	Class Test		Redwood
	30 th	Lubrication and Lubricants:		viscometer
		Definitions and mechanisms		
11 th	31 st	Classification of lubricants. additives	11 th	Determination of
	_	for lubricants		flash and fire
	32 nd	Properties of lubricants		point
-	33 rd	Properties of lubricants, problems		
12 th	34 th	Class Test	12 th	Determination of
	35 th	Fuels:		saponification
		Definition and characteristics of fuels		value
	36 th	Classification and determination of		
		calorific value		
13 th	37 th	Proximate analysis of fuel and its	13 th	Revision
10		importance	10	ine thore in the second s
	38 th	Ultimate analysis of fuel and its		
		importance		
	39 th	Merits and demerits of gaseous fuel		
		over other varieties of fuel		
14 th	40 th	Composition properties and uses of	14 th	Revision
	10	water gas oil gas	11	Revision
	41 st	Biogas LPG CNG		
	/12 nd	Numericals Problems related to		
	42	above tonics		
15 th	٨٦ _{rd}	DDT	15 th	Lah test and viva
	43 11 th	DDT	13	
	44 15 th	Discussion of provious year papers		
	45	Discussion of previous year papers		

