LESSON PLAN

Department: Electronics & Communication Engineering

NAME OF THE FACULTY: Dr. Ramanaiah Malla **CLASS**:1st ECE_A **BRANCH**: ECE

SUBJECT: Engineering Chemistry **Year**: 2017-18 **SEM**: II

Period	Date (Tentative)	Topic	Unit	Teaching Methodology	Remarks	Corrective action upon Review
1	08/01/18	Introduction – Definitions of Polymer, Polymerization	1	CR		
2	09/01/18	Functionality – Degree of polymerization	1	CR		
3	10/01/18	Types of polymerizations (addition and condensation polymerizations)	1	CR		
4	11/01/18	Condensation polymerization	1	CR		
	13/01/18 To 17/01/18	Pongal holidays				
5	18/01/18	Plastics – Definition and properties	1	CR		
6	20/01/18	Thermoplastics	1	CR		
7	22/01/18	Thermosetting Plastics	1	CR		
8	23/01/18	Compounding of Plastics	1	CR		
9	24/01/18	Moulding of plastics into Articles (Compression, injection))	1	CR &PPT		
10	25/01/18	Moulding of plastics into Articles (transfer and extrusion moulding methods	1	CR&PPT		
11	27/01/18	Classification of cements	1	CR		
12	29/01/18	Manufacture of Portland cement - Chemical constitution of Portland cement	1	CR		
13	30/01/18	Manufacture of Portland cement - Chemical constitution of Portland cement	1	CR		
14	31/01/18	Setting and Hardening of Portland Cement.	1	CR	1st Unit Will Be Completed	
15	01/02/18	Hardness of Water	2	CR		
16	03/02/18	Temporary and Permanent Hardness	2	CR		
17	05/02/18	Units and Inter Conversions of Units	2	CR		
		BAKRID		CR		
18	06/02/18	Problems on Temporary and Permanent Hardness	2	CR		
19	07/02/18	Estimation of Hardness by EDTA Methods	2	CR		
20	08/02/18	Treatment of Water for Domestic Purposes - Sedimentation – Coagulation-Filtration	2	CR		
21	10/02/18	Disinfection – Sterilization – Chlorination	2	CR		
22	12/02/18	Break Point chlorination – Ozonisation	2	CR		
	13/02/18	Maha Shivaratri				
23	14/02/18	Industrial Water Treatments- Desalination – Electro Dialysis	2	CR &PPT		
24	15/02/18	Reverse Osmosis	2	CR &PPT		
25	17/02/18	Lime-Soda Process	2	CR		
26	19/02/18	Lime-Soda Process	2	CR		
27	20/02/18	Zeolite Process	2	CR		

28	21/02/18	Ion-Exchange Process	2	CR &PPT	2nd Unit Will Be Completed	
29	22/02/18	Definition, Causes and Effects of Corrosion	3	CR		
30	24/02/18	Theories of Corrosion (Chemical and Electro Chemical Corrosion)	3	CR &PPT		
31	26/02/18	Mechanism of Electro Chemical Corrosion (Hydrogen Evolution Type)	3	CR		
32	27/02/18	Mechanism of Electro Chemical Corrosion (Oxygen Absorption Type)	3	CR		
33	28/02/18	Types of Corrosion (Galvanic Corrosion, Differential Aeration Corrosion)	3	CR		
34	01/03/18	Types of Corrosion (Water Line Corrosion, Pitting Corrosion and Stress corrosion)	3	CR		
35	03/03/18	Galvanic Series	3	CR		
	05/03/18	MID-1 EXAMINATION			MID-1	
	06/03/18	MID-1 EXAMINATION			MID-1	
	07/03/18	MID-1 EXAMINATION			MID-1	
	08/03/18	MID-1 EXAMINATION			MID-1	
	10/03/18	MID-1 EXAMINATION			MID-1	
36	12/03/18	Factors Effecting Rate of Corrosion (Nature of Metal)	3	CR		
37	13/03/18	Factors Effecting Rate of Corrosion (Nature of Environment)	3	CR		
38	14/03/18	Proper Designing	3	CR		
39	15/03/18	Modifying the Environment	3	CR		
40	17/03/18	Cathodic Protection (Sacrificial Anodic)	3	CR &PPT		
41	19/03/18	Cathodic Protection (Impressed Current)	3	CR &PPT	3rd Unit Will be completed	
42	20/03/18	Classification of Crude Oil	4	CR		
43	21/03/18	Fractional Distillation of Petroleum	4	CR		
44	22/03/18	Manufacturing Of Synthetic Petrol (Fischer-Tropschs)	4	CR &PPT		
45	24/03/18	Manufacturing Of Synthetic Petrol (Bergius Process)	4	CR &PPT		
46	26/03/18	Knocking –Anti Knocking Agents	4	CR		
47	27/03/18	Octane & Cetane Number	4	CR		
48	28/03/18	Definition and functions of lubricants	4	CR		
49	29/03/18	Classification of lubricants with examples	4	CR		
50	31/03/18	Classification of lubricants with examples	4	CR		
51	02/04/18	Mechanism of lubrication – Thick film, Thin film and Extreme pressure lubrication	4	CR		
52	03/04/18	Mechanism of lubrication – Thick film, Thin film and Extreme pressure lubrication	4	CR		
53	04/04/18	Properties of lubricants - Viscosity, flash and fire points	4	CR		
	05/04/18	Babu Jagjivan Ram Birthday				
54	07/04/18	Properties of lubricants - cloud and pour points, aniline points,	4	CR		
55	09/04/18	Properties of lubricants - neutralization number and mechanical strength	4	CR	4th Unit Will Be	

					completed	
56	10/04/18	Chemical sources of energy- Single electrode potential	5	CR		
57	11/04/18	Faraday Laws	5	CR		
58	12/04/18	electro chemical series	5	CR		
	14/04/18	Dr. Ambedkar Jayanti				
59	16/04/18	Nernst Equation	5	CR		
60	17/04/18	Reference electrode – calomel electrode –	5	CR		
61	18/04/18	Reference electrode –NHE (or) SHE	5	CR		
62	19/04/18	Green house concept	5	CR		
63	21/04/18	harnessing of solar energy	5	CR		
64	23/04/18	photo voltaic cells	5	CR &PPT		
65	24/04/18	concentrated power plants	5	CR		
66	25/04/18	parabolic trough	5	CR		
67	26/04/18	Solar dish	5	CR		
68	28/04/18	Solar tower	5	CR	5^{th} Unit will Be completed	
	30/04/18 To 05/05/18	MID-2 EXAMINATIONS				