LESSON PLAN

Department: Mechanical Engineering

NAME OF THE FACULTY: Balakrishna Malla **CLASS**:1st EEE_A **BRANCH**: EEE

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

Period	Date (Tentative)	Topic	Unit	Teaching Methodology	Remarks	Corrective action upon Review
1	08/08/2017	Introduction – Definitions of Polymer, Polymerization	1	CR		
2	09/08/2017	Functionality – Degree of polymerization	1	CR		
3	10/08/2017	Types of polymerizations (addition and condensation polymerizations)	1	CR		
4	11/08/2017	Condensation polymerization	1	CR		
5	12/08/2017	Plastics – Definition and properties	1	CR		
6	12/08/2017	Thermoplastics	1	CR		
	15/08/2017	INDEPENDENCE DAY				
7 8	16/08/2017	Thermosetting Plastics Compounding of Plastics	1	CR		
9	17/08/2017	Moulding of plastics into Articles (Compression, injection))	1	CR &PPT		
10	18/08/2017	Moulding of plastics into Articles (transfer and extrusion moulding methods	1	CR&PPT		
11	19/08/2017	Classification of cements Manufacture of Portland cement - Chemical constitution of Portland cement	1	CR		
13	23/08/2017	Manufacture of Portland cement - Chemical constitution of Portland cement	1	CR		
14	24/08/2017	Setting and Hardening of Portland Cement.	1	CR	1st Unit Will Be Completed	
	25/08/2017	VINAYAKA CHAVITHI				
15	26/08/2017	Hardness of Water	2	CR		
16	29/08/2017	Temporary and Permanent Hardness	2	CR		
17	30/08/2017	Units and Inter Conversions of Units	2	CR		
18	31/08/2017	Problems on Temporary and Permanent Hardness	2	CR		
19	01/09/2017	Estimation of Hardness by EDTA Methods	2	CR		
	26/09/2017	BAKRID		CR		
20	05/09/2017	Treatment of Water for Domestic Purposes - Sedimentation – Coagulation-Filtration	2	CR		
21	06/09/2017	Disinfection – Sterilization – Chlorination	2	CR		
22	07/09/2017	Break Point chlorination – Ozonisation	2	CR		
23	08/09/2017	Industrial Water Treatments- Desalination – Electro Dialysis	2	CR &PPT		
24	12/09/2017	Reverse Osmosis	2	CR &PPT		
25	13/09/2017	Lime-Soda Process	2	CR		
26	14/09/2017	Lime-Soda Process	2	CR		
27	15/09/2017	Zeolite Process	2	CR	2nd Unit	

28	15/09/2017	Ion-Exchange Process	2	CR &PPT	Will Be Completed	
29	16/09/2017	Definition, Causes and Effects of Corrosion	3	CR		
30	19/09/2017	Theories of Corrosion (Chemical and Electro Chemical Corrosion)	3	CR &PPT		
	20/09/2017	DUSSEHRA HOLIDAY				
	21/09/2017	DUSSEHRA HOLIDAY				
31	22/09/2017	Mechanism of Electro Chemical Corrosion (Hydrogen Evolution Type)	3	CR		
32	23/09/2017	Mechanism of Electro Chemical Corrosion (Oxygen Absorption Type)	3	CR		
33	26/09/2017	Types of Corrosion (Galvanic Corrosion, Differential Aeration Corrosion)	3	CR		
34	27/09/2017	Types of Corrosion (Water Line Corrosion, Pitting Corrosion and Stress corrosion)	3	CR		
35	28/09/2017	Galvanic Series	3	CR		
	09/10/2017	MID-1 EXAMINATION			MID-1	
	10/10/2017	MID-1 EXAMINATION			MID-1	
	11/10/2017	MID-1 EXAMINATION			MID-1	
	13/10/2017	MID-1 EXAMINATION			MID-1	
36	17/10/2017	Factors Effecting Rate of Corrosion	3	CR		
37		(Nature of Metal) Factors Effecting Rate of Corrosion (Nature of Environment) Proper Designing	3			
	18/10/2017	DIWALI		CR		
39	24/10/2017	Modifying the Environment	3	CR		
		Cathodic Protection (Sacrificial Anodic)	3	CR &PPT		
41	25/10/2017	Cathodic Protection (Impressed Current)	3	CR &PPT	3rd Unit Will be completed	
42	26/10/2017	Classification of Crude Oil	4	CR		
43	27/10/2017	Fractional Distillation of Petroleum	4	CR		
44	28/10/2017	Manufacturing Of Synthetic Petrol (Fischer-Tropschs)	4	CR &PPT		
45	31/10/2017	Manufacturing Of Synthetic Petrol (Bergius Process)	4	CR &PPT		
46	01/11/2017	Knocking –Anti Knocking Agents	4	CR		
47	02/11/2017	Octane & Cetane Number	4	CR		
48	03/11/2017	Definition and functions of lubricants	4	CR		
49	04/11/2017	Classification of lubricants with examples	4	CR		
50	07/11/2017	Classification of lubricants with examples	4	CR		
51	08/11/2017	Mechanism of lubrication – Thick film, Thin film and Extreme pressure lubrication	4	CR		
52	09/11/2017	Mechanism of lubrication – Thick film, Thin film and Extreme pressure lubrication	4	CR		
53	10/11/2017	Properties of lubricants - Viscosity, flash and fire points	4	CR		
54	10/11/2017	Properties of lubricants - cloud and pour points, aniline points,	4	CR		
55	14/11/2017	Properties of lubricants - neutralization number and mechanical strength	4	CR	4th Unit Will Be	

					completed	
56	15/11/2017	Chemical sources of energy- Single electrode potential	5	CR		
57	16/11/2017	Faraday Laws	5	CR		
58	17/11/2017	electro chemical series	5	CR		
59	18/11/2017	Nernst Equation	5	CR		
60	21/11/2017	Reference electrode – calomel electrode –	5	CR		
61	22/11/2017	Reference electrode –NHE (or) SHE	5	CR		
62	23/11/2017	Green house concept	5	CR		
63	24/11/2017	harnessing of solar energy	5	CR		
64	25/11/2017	photo voltaic cells	5	CR &PPT		
65	28/11/2017	concentrated power plants	5	CR		
66	29/11/2017	parabolic trough	5	CR		
	01/12/2017	MILAD UN NABI				
67	2/12/2017	Solar dish - solar tower.	5	CR	5^{th} Unit will Be completed	
	04/12/2017 to 09/12/2017	MID EXAMINATIONS				