

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
2	12/9	Polymerization reaction Types of polymerization	1	C.R		
7	15/9	Basic concepts of polymerization	"	"		
3	16/9	Thermosetting & Thermoplastic	"	"		
4	18/9	Difference between plastics	"	"		
5	19/9	Compounding & moulding of plastic	"	"		
2	22/9	Compression, injection, extrusion moulding methods	"	"		
7	22/9	Preparation, properties, and uses of PVC, PE, PS etc.	"	"		
3	23/9	Bakelite, nylon, polyester	"	"		
4	25/9	Current classification	"	"		
5	26/9	Portland Cement - Raw materials	"	"		
2	6/10	Manufacture of Portland Cement	"	"		
7	6/10	Chemical constituents of Portland Cement	"	"		
3	7/10	Setting and Hardening of Cement	"	"		
		Int mid Exams.	3/11/14 - 6/11/14			
5	7/11	Introduction of water technology	II	C.R		
2	10/11	Hardness of water & its conversion	"	"		
7	10/11	Estimation of hardness by EDTA method	"	"		
3	11/11	Problems on temporary & permanent hardness	"	"		
4	13/11	Disadvantages of hard water	"	"		
5	14/11	Methods of treatment of domestic sewage	"	"		

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2	17/11	Sedimentation, Coagulation filtration	II	C.R		
7	17/11	Disinfection - Sterilization chlorination	"	"		
3	18/11	Break point chlorination ozonation	"	"		
4	20/11	Industrial water Treatment	"	"		
5	21/11	Desalination, Reverse osmosis	"	"		
2	24/11	Lime Soda process	"	"		
7	24/11	Zeolite process	"	"		
		Ion-exchange process	"	"		
3	25/11	Introduction of corrosion, definition & Exa	III	C.R		
	26/11	Types of corrosion: Theories of Corrosion	"	"		
4	27/11	Mechanism of Dry & wet corrosion	"	"		
		Principles of Corrosion Galvanic Series	"	"		
5	28/11	Galvanic corrosion. Concentration cell corrosion	"	"		
		Mechanism of wet corrosion Hydrogen Evolution Type	"	"		
2	1/12	Oxygen absorption type	"	"		
		Factors influence on Rate of Corrosion	"	"		
7	1/12	Proper design, use of pure metal & alloy cathodic protection methods	"	"		

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3	2/12	Sacrificial Anodic protect & impressed current cathodic protection	III	CR		
4	4/12	Factors modified the Environment	"	"		
2	8/12	use of inhibitors				
Ind mid Exam - 10/12/14 - 12/12/14						
2	15/12	Introduction to liquid fuels.	4	CR		
		classification of crude oil	"	"		
7	18/12	Fractional Distillation	"	"		
		Thermal & Analytical cracking	"	"		
3	16/12	Synthetic petrol Fischer-Tropsch proc	"	"		
		Bergius proc.	"	"		
4	18/12	Polymerization - Refining - Reforming of crude oil	"	"		
		Knocking & Anti Knocking Agents	"	"		
5	19/12	octane number & cetane number	"	"		
		principles and functioning of lubricants	"	"		
2	22/12	Types of lubricants and mechanism	"	"		
		Thick film lubrication hydrodynamic lubrication	"	"		
7	22/12	Thin film lubrication Extreme pressure lubrication	"	"		
		classification and proper of lubricants	"	"		
		viscosity, flash & fire point				

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
3	23/12	Neutralization number & mechanical strength	4	C.R		
4	25/12	Introduction of Solar Energies	5	C.R		
		Harnessing of solar energy	"	"		
5	26/12	Photo voltaic cells	"	"		
		concentration solar power plants	"	"		
2	29/12	Green house concept	"	"		
7	29/12	Introduction of Green chemistry	"	"		
		12 principles of green chemistry	"	"		
3	30/12	Green synthesis	"	"		
4	1/1	Engineering Applications of Green Chemistry	"	"		
5	2/1	Introduction to nano materials	"	"		
2	5/1	Preparation of CNT, fullerenes, nano materials	"	"		
7	5/1	Top down method - bottom up method	"	"		
		Properties of nano materials	"	"		
3	6/1	Silver and Gold nano Particles	"	"		
		Engineering and				
4	8/1	Biomedical applications of nano materials	"	"		
		Grand mid Exams → 18/1/15 - 20/1/15				