

GOVERNMENT POLYTECHNIC, VAISHALI

Mechanical & Electrical Engineering Semester – II

Lecture plan for left syllabus effective from 10-04-20

Subject:- Applied Science Chemistry/1601203

Subject Teacher – Mukesh Kumar Mishra

S.NO	UNIT	TOPIC TO BE COVERED	NO. OF PERIOD	BOOK
1	4	Application of protective coating i.e. Galvanising, Tinning, Metal spraying, Sherardizing.	L1	T1,T2
		Electroplating , Metal Clodding, Cementation or Diffusion method ,their Definition ,procedure ,uses, advantage and disadvantages.	L2	T1
		Special paints-Heat Resistant ,Cellulose Paint, Coaltar Paint, Antifouling paint their constituent & applications.	L3	T1,T3
2	5	Lubricant, Types ,Lubrication mechanism by fluid film ,Baunday , Extreme pressure	L4	T1
		Physical characteristics of Lubricants such as viscosity , viscosity index ,oiliness , volatility, Flash & Fire point ,cloud and pour point.	L5	T1
		Chemical characteristics such as Acid value or Neutralization number, Emulsification ,Saponification value, Selection of Lubricants for various types of Machineries.	L6	T1,T2

BOOKS:-

- (1) T 1 :- Applied Science ,Sanjay kumar ,Rahul kumar Foundation publication.
- (2) T2 :- Engineering chemistry, Jain and Jain, Dhanpat Rai and sons.
- (3) T3 :- Engineering chemistry, S.S Dara, S. Chand Publication.