PLANNED SYLLABUS COVERAGE (THEORY)

G I)	Departmen	nt: Applied Sciences & Humanities Subject- A	Applied Ch	emistry II		
Kullu		Branch - Electrical Engg. Semester-Second					
SYLLABUS COVERAGE		Planned Theory Periods- 49 Nos					
Sr No	Date	Topic	Details	Instruction Reference	Additional Study Recommended	Remark	
1	8-1-20 16-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20 18-20	Metallurgy	Metallurgical Terms and operations, extraction of pure iron and copper, aluminum from their chief ores. Manufacture of wrought iron and steel by open hearth process and L.D. process .Alloys, their composition ,properties and uses Composition, properties and uses of brass, bronze, gun metal and magnalium				
2	29-31-31-30 31-12-30 52-72-0	Corrosion	Definition of Corrosion of electro chemical theory of corrosion passivity of metals, galvanic cells. Preventions and control on measure:internal measure, external measure.(a)metallic (b)non metallic coating and sacrificial anode.				
3	72/20/12/20 14/2 14/20 15/20/19/20 22/20/20/20 22/20/20/20/20/20/20/20/20/20/20/20/20/2	Fuels	Introduction, combustion, classification of fuels, characteristics of good fuel, calorific value, determination of calorific value by bomb calorimeter, and dulong's formula. fuel rating: octane number, cetane number, influence of chemical composition, structure on fuel rating. Gases fuels: natural gas, L.P.G., CNG, hydrogen, composition, manufacture and uses of water gas, producer gas, bio gas, merits and demerits of gases fuels over solid and liquid fuels.	Engg. Chem.by Shashi Chawla, Eagle Publicatio ns, Hiteshi Publication s	NCERT(+1, +2 Chemistry books), Pradeep Publication s,Dinesh Publication s		
4	29-20 3-20 6-20 8-20 8-20 8-20 8-20 8-20 8-20 8-20 8	Lubricants	Definition and classification of lubricants, mechanism of lubrication, characteristics of good lubricants, properties of lubricants: such as oiliness, emulsification, flash and fire point, volatility, viscosity and viscosity index, cloud and pour point acidity value.				

Si		Date	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
5		1830 1330 2020 2020	Paints & Varnishes	Constituents of paints , characteristics of good paint characteristics of varnishes ,constituents of enamels ,uses of paints varnishes and enamels	Engg. Chem.by Shashi Chawla, Eagle	NCERT(+1,+ 2 Chemistry books), Pradeep Publications,	
6	5	2520 2520 2720 120	Refractories	Introduction of good refractory materials, types and chemical composition of acidic, basic and neutral refractory, application of refractories.	Publications, Hiteshi Publications	Dinesh Publications	9
7		3701370	Revision				a.
8		174 1740	Revision	Y	7		
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Signature of Teacher with name:

APPROVED	SIGN HOD/PPL /
DATE	May

(Amau Saiwi)