St. Ann's College For Women, Mehdipatnam, Hyderabad – 28

ANNEXURE1 – TABLE – A, CURRICULAM PLANS – LECTURER WISE – 2013 – 2014

Dept: Chemistry Class: B. Sc. II Paper: I Unit I (Inorganic chemistry)

S. No	Month	Hours Allotted	Lecture no.	Syllabus Topic	Av Aids used
1.	June	3+1*	1-4	Chemistry of d-block elements 1. Introduction 2. Characteristics of d-block with reference to electronic configuration 3. Ionic radi, IP 4. variable valance, Stability/prop. of various oxidation states & e.m.f	Ppt/power board
2	July	4	5 - 8	5. Oxidation state6. Magnetic properties7. Colour, catalytic properties,8. ability to form complexes,	Ppt/power board
3	August	4	9 - 12	 9. Comparitive treatment of second and third transition series with their 3rd analogues 10. Study of Ti, Cr, Cu traids in respect of electronic configuration 11. Study of Ti, Cr, Cu traids in respect of electronic configuration Chemistry of f-block elements 12. Chemistry of Lanthanides-electronic structure. oxidation states, 	Ppt/power board
4	Sep.	4	13 - 16	 lanthanide contraction - Consequences of lanthanide contraction Magnetic properties, spectral properties Separation of Lanthanides by ion exchange and solvent extraction methods. Chemistry of Actinides- electronic Configuration, oxidation states, actinide contraction 	Ppt/power board
	October	1	17	17. Comparison with lanthanides in terms of Magnetic properties, spectral properties and Complex formation	

Nov.	4 + 2*	18 - 23	Theories of bonding in metals	
			18. Valence bond theory Explanation of metallic	
			properties and its limitations	
			19. Free electron theory Thermal and electrical	
			conductivity of metals, limitations	
			20. Band theory, formation of bands	Ppt/power
			21. Conductors, semicondutors, insulators	board
			Metalcarbonyls and its related compounds	
			22. EAN rule, classification of metalcarbonyls	
			Structures of metalcarbonyls Shapes of	
			metalcarbonyls of Vanadim, Cr	
			23. Shapes of metalcarbonyls of Fe, Mn	
Dec.	3	24 - 26	24. Shapes of metalcarbonyls of Co, Ni	Ppt/power
			25. Metal nitrosyls	board
			26. Metallocenes	
January	3	27 - 29	Revision	

• Special classes