Department of Chemistry
Kurukshetra University, Kurukshetra

Dr. Sangeeta

Monday: Properties of water and introduction to Protein folding

Tuesday: Thermodynamics in Biological systems

Wednesday: Thermodynamics in Biological systems

Friday: Thermodynamics of Biopolymer solutions, Osmotic pressure, Membrane equilibrium

Dr. Ramesh Kumar

Schedule of topics to be taught in M.Sc. Chemistry (2nd and 4th Semester) from 23.02.2015 to 28.02.2015

Date	Semester	Paper No.	Topics
25.02.2015	II	VII	Nucleophilic addition reactions of Carbonyl Compounds contd. and some name reactions.
27.02.2015	IV	XIX	General methods of structure elucidation of terpenoids.
28.02.2015	IV	XIX	Structure elucidation and synthesis of Geraniol.

Dr Parvin Kumar

Schedule of the topics to be taught in M. Sc. Chemistry (Organic Chem., 2nd Semester & 4th semester)

Paper	Date	Topic
Organic-VII 2nd Semester	23-02-15 to 28-02-15	• Carbocationic rearrangement
Organic-XIX 4nd Semester	23-02-15 to 28-02-15	• Comparative Studies of 1,3 and 1,2-azoles

Dr. Ashu Chaudhary

Syllabus content*scheduled to be taught to the Students of M. Sc. 4th Sem. (Inorganic Special) in the third week of February, 2015 (from Feb. 23-Feb 28, 2015) is as under:

Excited States of Metal Complexes

Electronically excited states of metal complexes

Charge-transfer spectra

- LMCT
- MLCT
- L-LCT/ILCT (Intra ligand charge Transfer)
- M-MCT
- CTSS (Charge transfer to solvent state)
- d-d transition/ LFT (ligand field transition)

Photochemistry of Transition Metal Complexes

(i) *d-d states or ligand-field states:*

(ii) *d-π* states:*

(iii) π,–π* *states:*

(iv) *π-d states:*

Photochemical Processes

Three fundamental types of photochemical reactions are known for coordination compounds:

(a) Photosubstitution reactions

(b) Photo rearrangement reactions

(c) Redox reactions

*The completion of the proposed syllabus shall depend upon the discussion/questions and other deliberations in the class.
For any query please contact;
Dr.AshuChaudhary, Assistant Professor, Department of Chemistry, K.U. Kurukshetra.

Dr. Prabjot Kaur

Topic for next week in M.Sc. Previous

Chain Fission, fission yield and Nuclear Fusion.