Syllabus of the Ph.D. Course Work in Chemistry

Total Credit: 8		Total Marks: $8 \times 25 = 200$	
Gro	up - A: Credit 4, which is divided as follows:		
a)	Review of Research Work and Research Methodology	2 Credits x $25 = 50$	
b)	Computer Applications	1 Credit x $25 = 25$	
c)	Quantitative Methods / Introduction to Different Instruments	1 Credit x $25 = 25$	
Gro	up - B: Credit 4, which is divided as follows:		
Theoretical Paper as Module - 1 (Paper: PhDCW/01)		2 Credits x $25 = 50$	
Com	aprising of the followings:		
	Polymor and Host Guest Chemistry		

- Polymer and Host Guest Chemistry
- > Spectroscopy and Symmetry
- Physico-Chemical Aspects and Redrox Properties of Coordination Compounds,
- Photochemistry of Inorganic Compounds and non-covalent interactions,
- > Synthetic Organic Chemistry
- ➤ Green Chemistry & Catalysis

Theoretical Paper as Module - 2 (Paper: PhDCW/02)

2 Credits x 25 = 50

Comprising of the followings:

- > Theoretical Chemistry
- Solution Thermodynamics
- Ionic Liquids and Organometallic Catalysis
- Inorganic-Organic Hybrid Materials
- Natural Products Chemistry
- > Synthesis and Application of Organic Polymers and Organometallic Compounds