

# Department of Chemistry

## COURSE STRUCTURE

(Minimum Core/Electives Credits = 56/40)

### FIRST SEMESTER (ODD SEMESTER)

Code No.	Title	Theory/Practical (Hrs/Week)	Total Marks	Credits
MSCHE1001C04	Group Theory, Bonding and Metal-Ligand Equilibrium	4	100	4
MSCHE1002C04	Bonding, Stereochemistry and Reaction Mechanism (I)	4	100	4
MSCHE1003C04	Basic Concepts of Physical Chemistry	4	100	4
MSCHE1004C04	Inorganic Chemistry Lab	8	100	4
Departmental Elective	<b>One</b> or more courses to be selected from the elective basket for odd semesters	4	100	4
Open Elective (Inter-School or Inter-Department or SWAYAM)	<b>One</b> or more courses to be selected from the elective basket for odd semester	4	100	4

### SECOND SEMESTER (EVEN SEMESTER)

Code No.	Title	Theory/Practical (Hrs/Week)	Total Marks	Credits
MSCHE2001C04	Photochemical and magnetic properties of complexes and nuclear chemistry	4	100	4
MSCHE2002C04	Reaction Mechanism (II), Pericyclic and Photochemical Reactions	4	100	4
MSCHE2003C04	Quantum Mechanics and Statistical Thermodynamics	4	100	4
MSCHE2004C04	Physical Chemistry Lab	8	100	4
Departmental Elective	<b>Two</b> or more courses to be selected from the elective basket for even semesters	4	100	4