

**Programme: Master of Science Chemistry (MSCCH20)**  
**Year / Semester: IIIrd semester**  
**Paper Code: MCH 601**  
**Paper Name: Reaction mechanisms and Pericyclic reactions**

**Syllabus**

**Block I: ORGANIC REACTION MECHANISMS – II**

Unit –1: Reaction intermediates – I

Unit – 2: Reaction intermediates – II

Unit – 3: Molecular rearrangements

– I Unit – 4: Molecular

rearrangements – II Unit – 5:

Elimination reactions

**Block II : PERICYCLIC REACTIONS**

Unit – 6: Classification and stereochemistry of pericyclic

reactions Unit – 7: Molecular orbitals and their symmetry  
properties

Unit – 8: Analysis of electrocyclic

reactions Unit – 9: Analysis of

cycloaddition reactions Unit – 10:

Analysis of sigmatropic reactions