

Programme: Master of Science Chemistry (MSCCH20)

Year / Semester: IIIrd semester

Paper Code: MCH 602

Paper Name: Synthetic Organic Chemistry- I

Syllabus

BLOCK I: ORGANIC SYNTHESIS-I

Unit –1: A brief review of functionalisation and functional group transformation reactions And oxidation of alkanes and alkenes

Unit – 2: Oxidation of alcohols

Unit – 3: Reduction by catalytic hydrogenations

Unit – 4: Reduction by hydride transfer agents Unit

– 5 : Reductions by dissolving metals.

BLOCK II :ORGANIC SYNTHESIS – II

Unit – 6: Formation of carbon-carbon single bond

Unit – 7: Formation of carbon-carbon double bond

Unit – 8: Synthetic applications of organoboranes

Unit – 9: Synthetic applications of organosilanes

Unit – 10: Protecting groups in organic synthesis