SEMESTER-II

ORGANIC CHEMISTRY –II

PRACTICAL SYLLABUS

Program: M.Sc./P **Max marks : 50**
P20/CHE/DSC/202/P **No. of Hrs. allotted: 4 Hrs / week**
Course Type: DSC-6
No. of Credits : 2

COURSE OUTCOMES:

CO1: Understand the importance of organic compound synthesis and its use in research and industry.
CO2: Understand the procedures for the different steps for the organic compound synthesis.
CO3: Understand the mechanisms for the synthesis of organic compounds in different steps.
CO4: Understand the recrystallisation of organic compound in various steps for the organic compound synthesis. Max marks : 50

Synthesis of the following compounds: p-Bromoacetanilide, p- Bromoaniline, 2,4,6-tribromoaniline, 1,3,5-tribromobenzene, aspirin, tetrahydrocarbazole, 7-hydroxy-4-methyl coumarin, m-dinitrobenzene, m-nitroaniline, hippuric acid, azlactone,anthracene-maleic anhydride adduct, Phthalimide, 2,4-dihydroxyacetophenone

Identification of unknown organic compounds from their IR, UV, 1H nmr and MS: Analysis of recorded spectra of **6** compounds belonging to i) aromatic carboxylic acid ii) alcohols and phenols iii) aldehydes and ketones iv) amides v) esters vi) alkenes and alkynes .

References

1. Text book of practical organic chemistry, Vogel
2. Text book of practical organic chemistry, Mann and Saunders.
3. Spectral identification of organic compounds Bassler, Silverstein 5th Edition

SEMESTER 1

ORGANIC CHEMISTRY-II

MODEL PRACTICAL QUESTION PAPER

Course Code: P20/CHE/DSC/202/P **Time: 3Hrs**
Credits: 2 **Max. Marks:50**

Q1. Write the principle and procedure involved in the synthesis of given organic compound

(CO1, CO2 CO3) **25 M**

Q2. Identify the unknown organic compound from the given spectral data **(CO4)** **10 M**

Q3. Record + Attendance **5 M**

Q4. Viva **10 M**