

Subject Code: 1SC2030405	Subject Title: ORGANIC CHEMISTRY PRACTICAL
COURSE TYPE: CORE COURSE	

Teaching scheme (hours) per week		Credit			Theory Marks		Practical Marks		Total
Theory	Practical	Theory	Practical	Total	Uni. Assessment	Cont. Assessment	Uni. Assessment	Cont. Assessment	
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LIST OF PRACTICALS:

1. Synthesis of alcohol from the reaction of a Grignard reagent and a ketone.
2. Synthesis of an alkene from dehydration of the alcohol prepared in previous step.
3. Isolation /Extraction of casein from milk through solvent extraction method
4. Isolation /Extraction of citric acid from lemon through solvent extraction method
5. Synthesis of Nylon 6 starting from cyclohexanone.
6. Determination of neutralization equivalent of organic acids.
7. Quantitative analysis of (i) sulphur and (ii) nitrogen.
8. Quantitative analysis of number of double bonds in an unknown organic compound
9. Quantitative analysis of number of hydroxyls in an unknown organic compound
10. Characterization of an organic compound through CHN, Mass, FTIR, NMR

Reference Books:

1. A. I. Vogel, Quantitative Organic Analysis, Part 3, Pearson, 2012.
2. F. G. Mann, & B. C. Saunders, Practical Organic Chemistry, Pearson Education, 2009.
3. B. S. Furniss, A. J. Hannaford, P. W. G. Smith, A. R. Tatchell, Practical Organic Chemistry, 5th ed., Pearson, 2012.
4. V. K. Ahluwalia and R. Aggarwal, Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis, University Press, 2000.
5. V. K. Ahluwalia and S. Dhingra, Comprehensive Practical Organic Chemistry: Qualitative Analysis, University Press, 2000.