

Semester	JAN 2022
Open to semester	6,8,12
Course code	CH3243
Course title	Advanced Organic Chemistry Laboratory
Credits	3 /
Course Coordinator & participating faculty (if any)	Raghavendra Kikkeri
Nature of Course	Lab
Pre-requisites	Nil
Objectives (goals, type of students for whom useful, outcome etc)	The main objective of this course is to familiarize students with the organic synthesis, characterization and purification techniques.
Course contents (details of topics /sections with no. of lectures for each)	<p>Wittig Reaction:</p> <p>(I) Synthesis of benzyl triphenylphosphonium bromide</p> <p>(II) Synthesis of Stillbenes</p> <p>(III) Separation of cis and trans stillbenes by column chromatography</p> <p>Reduction of Benzophenone to Benzhydrol</p> <p>Conversion of Benzhydrol to Benzophenone</p> <p>Resolution of 1-Phenylethylamine</p> <p>Grignard Reaction with a Ketone: Triphenylmethanol.</p> <p>Click Reaction: Copper (I) Catalyzed Azide –Alkyne Cycloaddition Reaction</p> <p>Determination of Hammett Equation Rho Constant for the Hydrolysis of p-Nitrophenyl Benzoate Esters:</p> <p>Step-I: Preparation of p-Nitrophenyl Benzoate Esters:</p> <p>Step-II: Kinetic Study:</p>
Evaluation /assessment	<p>End-Sem Examination-20%</p> <p>Mid-Sem Examination-20%</p> <p>Others-Note Book Evaluation - 50 %</p> <p>%</p>
Suggested readings (with full list of authors, publisher, year, edn etc.)	Lab Manual