



CD223 Jan. 3:0

Organic Synthesis

Instructor

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Teaching Assistant

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Email: --

Department: Department of Organic Chemistry

Course Time: Mon., Wed., Fri. 9:00 AM - 10:00 AM

Lecture venue: Lecture Room, Department of Organic Chemistry

Detailed Course Page: <https://www.orgchem.iisc.ac.in/courses-offered-by-the-department/>

Announcements

Brief description of the course

The course shall provide a logical understanding of organic synthesis, mechanistic details of varied types of organic reactions, reagents and methodologies. Method and methodologies involved in organic synthesis will be taught in ~43 hours.

Prerequisites

Completion of OC 203 and CD 215

Syllabus

Principles of selectivity and reactivity in the use of reagents for oxidation, reduction and bond forming reaction. Planning a synthesis, antithetic analysis, synthons, linear and convergent synthesis.

Course outcomes

The student shall gain a sound understanding of the basics of organic synthesis, methodology development and multi-step synthesis.

Grading policy

Assignments, mid-term and final examination will be conducted and the students' performance will be graded.

Assignments

Assignments will be given.

Resources

Warren S., *Designing Organic Synthesis*, 1978

Carruthers W. S., *Some Modern Methods of Organic Synthesis* 3rd edition, Cambridge University Press, 1986.

Carery, F. A. and Sundberg, R. J., *Advanced organic chemistry, Part B*, 2nd ed., Plenum, 1984
House, *Modern Synthetic Reactions*, 1972.

Fuhrhop J. and Penzilin G., *Organic Synthesis - Concepts, Methods, Starting Materials*, Verlag Chemie 1983.