



**ST ALOYSIUS COLLEGE
(AUTONOMOUS)
MANGALORE 575 003**

DEPARTMENT OF
POSTGRADUATE STUDIES
IN
CHEMISTRY

Offers
Online Certificate Courses
In

1. **SPECTRAL INTERPRETATION OF ORGANIC COMPOUNDS**
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4. Reagents in Organic Synthesis

Course Coordinator: Dr Jyothi N Rao

Objectives: Reagents in organic synthesis is a 30 hours certificate online course aims to explore the structural feature, property and role of various reagents used in organic synthesis. To select a suitable reagent for a given organic transformation. To explain role of the reagent in a given transformation and explain the mechanism.

Eligibility: All B.Sc./ M. Sc students who have studied chemistry at PUC level.

Contents: Structure, properties and synthetic applications of aluminium isopropoxide, NBS, DDQ, DCC, LTA, lithium aluminium hydride, sodium borohydride, selenium dioxide, perbenzoic acid, wittig reagent, osmium tetroxide, PCC, organoboranes and organosilicon compounds.

Learning outcomes: - On successful completion of this course students will be able to analyse a given target molecule, identify simple reactants and reagents to make various bonds to synthesize a given target molecule.

Timings: 5.00 to 6.30 pm (Once in a week)