

Pen Education Society's
Bhausahab Nene College, Pen-Raigad

Date: 23/03/2019

NOTICE

Class: F.Y. B.Sc. (Sem II)

All the students of above class are hereby informed that a **Bridge-Course 2019-2020** for upcoming academic year of S.Y.B.Sc. (Sem III) is organized by Department of Chemistry. All the Students should attend the course. Details of the Course are as follow:

Duration of Course: 6 June to 11 June 2018 (Excluding Sunday)

Time of Course Lecture: 11:00 am to 01:00 pm

Subject of Course: Organic, Inorganic & Physical Chemistry

Location: Lecture Classroom No. 105

Course In-charge

Dr. M. H. Salunke

Dr. A. D. Bhise

Mr. S. B. Chitnis

IQAC Coordinator/

In-charge

HOD &Principal

Bridge Course Structure

Objectives of the Course:

- 1 To bridge the course content of F. Y. B. Sc. and S. Y. B. Sc.
- 2 To clear the basics in chemistry.
- 3 To improve the performance of the stake-holders in the theory examinations.

Content of the Bridge Course:

- 1 Nomenclature of Organic compounds (F.Y.B.Sc. Sem I P-I3.1 & S.Y.B.Sc. Sem III)
- 2 Types of Organic reactions (F.Y.B.Sc. Sem I P-I3.3 & S.Y.B.Sc. Sem III PI3.1)
- 3 Stereochemistry (F.Y.B.Sc. Sem I & II P-II & S.Y.B.Sc. Sem III PI3.1.1)
- 4 Other basics in organic chemistry like Electrophiles, Nucleophiles, Reaction intermediates, etc.
- 5 Writing conventions in the organic chemistry
- 6 Basics in Kinetics, Thermodynamics, Photochemistry, Phase Equilibria and Electrochemistry
- 7 Atomic Structure, Periodic table & periodicity, Electronic configuration and its consequences

Expected Learning Outcomes:

- 1 To understand the IUPAC nomenclature system of Organic Compounds.
- 2 To learn how to identify the type of reaction.
- 3 To revise the basic concepts of stereochemistry.
- 4 To become handy with periodic table and periodic properties.
- 5 To correlate the concepts of physical chemistry.

Teaching Method:

Chalk-Black board, Illustrations, Stereo chemical molecular modeling and AV.

Course Schedule:

Lecture 1: Nomenclature of organic compounds, Atomic structure

Lecture 2: Electrophile, Nucleophile, Types of organic reactions –Addition, Elimination & Substitution, Periodic table and periodicity

Lecture 3: Stereochemistry, Writing conventions in the organic chemistry and Exam paper, Electronic configuration and it's consequences

Lecture 4: Basics in Kinetics, Thermodynamics, Photochemistry

Lecture 5: Basics in Phase Equilibria and Electrochemistry

Assessment Method: Oral Question-Answering, Objective test

Coursed Designed by: Dr. M. H. Salunke, Mr. S. B. Chitnis, Dr. A. D. Bhise

Reviewed & Approved by: Head of the Dept. of Chemistry

Course In-charge

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