

## **PLACEMENT:**

Along with academic excellence, we also provide career guidance and placements for students by organizing interactive sessions with stalwarts and workshops on interview techniques. Department has a great track record of placement in all the reputed pharmaceutical and chemical companies.

## **OUR RECRUITORS:**



## **SCHOLARSHIP:**

### ***'Lupin Scholarship Award'***

Recognition for the excellence in academics for toppers from M. Sc. Part I Organic and Analytical division.

## **CONTACTS:**

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## **Note:**

Admissions will be done through entrance. Application Forms for entrance will be available online on [www.fergusson.edu](http://www.fergusson.edu) from 9th May 2016. Syllabus for entrance will be T. Y. B. Sc. Chemistry of SPPU. Admissions will be done for SPPU students on the basis of entrance and B. Sc marks. For students other than SPPU, only entrance marks will be considered.



Deccan Education Society's  
**FERGUSSON COLLEGE, PUNE - 411004**  
Department of Chemistry



The Chemistry Department of Fergusson College started in 1894-95. This is one of the largest science departments of the college and Deccan Education Society, Pune. In its history of 122 years it has grown considerably.

M.Sc. Organic was started in year 1994 which contributed to the development of the department. It is a full time course of four semesters.

## About Organic Chemistry:



Organic chemistry is the study of the structure, properties, composition, reactions, and preparation of carbon-containing compounds, which include not only hydrocarbons but also compounds with any number of other elements, including hydrogen (most compounds contain at least one carbon-hydrogen bond), nitrogen, oxygen, halogens, phosphorus, silicon, and sulfur. This branch of chemistry was originally limited to compounds produced by living organisms but has been broadened to include human-made substances such as plastics. The range of application of organic compounds is enormous and also includes, but is not limited to, pharmaceuticals, petrochemicals, food, explosives, paints, and cosmetics. The intake capacity of this course is 48.

## **PRESCRIBED COURSES (100 Credits) :**

### **Semester - I:**

CHP-110: Fundamentals of Physical Chemistry-I

CHI-130: Molecular Symmetry & Chemistry of *p*-block elements

CHO-150: Basic organic chemistry

CHA-190: Safety in Chemical Laboratory and Good Laboratory Practices

### **Semester - II:**

CHP-210: Fundamentals of Physical Chemistry-II

CHI-230: Coordination and Bioinorganic Chemistry

CHO-250: Synthetic organic chemistry and Spectroscopy

CHA-290: General Chemistry - II  
Modern Separation Methods and Hyphenated Techniques, Peri cyclic reactions, Photo chemistry and Free radicals

### **Practical Courses:**

CHP-107: Physical Chemistry Practical

CHI-127: Inorganic Chemistry Practical

CHO-247: Organic Chemistry Practical

### **Semester- III**

CHO-350: Organic Reaction Mechanism

CHO-351: Spectroscopic Methods in Structure Determination

CHO-352: Organic Stereochemistry

CHO-353: Pericyclic Reactions, Photochemistry and Heterocyclic Chemistry

### **Semester - IV:**

CHO-450: Natural Products

CHO-451: Advanced Synthetic Organic Chemistry

CHO-452: Carbohydrate and Chiron approach, Chiral Drugs and Medicinal Chemistry

CHO-453: Designing Organic Synthesis and Asymmetric Synthesis

### **Practical Courses:**

CHO-347: Single Stage Preparations

CHO-447: Two Stage Preparations

CHO-448: Project / Industrial training / Green Chemistry and Chemical Biology Experiments

## **ADDITIONAL COMPULSORY COURSES (10 credits)**

Introduction To Cyber Security/ Information Security (4credits)

Human Rights (2 Credits)

Skill Development (4 Credits)