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.

**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.

**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:**

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

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### 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:
- CHO-347: Single Stage Preparations
- CHO-447: Two Stage Preparations
- CHO-448: Project / Industrial training / Green Chemistry and Chemical Biology Experiments

### Additional Compulsory Courses

- 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 (4 credits)
- Human Rights (2 Credits)
- Skill Development (4 Credits)