

PLACEMENT :

Along with academic excellence, we also aim to provide career guidance and placements for students. It helps the students to face challenging careers ahead in their chosen fields by providing training and current information to assist the students in placements.

OUR RECRUITORS :



SCHOLARSHIP :

'Lupin Scholarship Award'

Recognition for the excellence in academics.

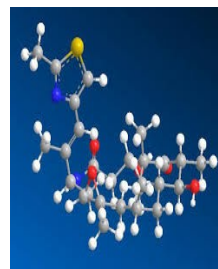
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Note: Admissions will be through entrance exam. Online application form is available on the college website (www.fergusson.edu).



Deccan Education Society's
FERGUSSON COLLEGE, PUNE – 411004.
(Autonomous)
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 120 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. The intake capacity of students is 48.

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.

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, Pericyclic reactions, Photochemistry and Free radicals

Practical Courses:

CHP-107: Physical Chemistry Practicals

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