

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:



SCHOLORSHIP:

'Lupin Scholarship Award'

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

CONTACTS:

Dr. Rajendra S. Kondedeshmukh

Coordinator,
Research & M.Sc. Chemistry,
Department of Chemistry,
Fergusson College, Pune.

Contact:

kd_chem@rediffmail.com

+91 20 3086 6194 / 6148

Mrs. Archana Rathod

+91 9545995302

Note:

Admissions will be done through entrance. Application Forms for entrance will be available online on 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. Analytical was started in year 2007 which contributed to the development of the department. It is a full time course of four semesters.

About Analytical Chemistry

Analytical chemistry is the science of obtaining, processing, and communicating information about the composition and structure of matter. In other words, it is the art and science of determining what matter is and how much of it exists.

Analytical chemists use their knowledge of chemistry, instrumentation, computers, and statistics to



solve problems in almost all areas of chemistry and for all kinds of industries. They conduct basic laboratory research; perform process and product development; design instruments used in analytical analysis; teach; and work in marketing and law. Analytical chemistry can be a challenging profession that makes significant contributions to many fields of science. They have opportunities in Industries, Food and Technology, Forensic Labs, Pharmaceuticals and many more.

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

Practical Courses:

CHP-107: Physical Chemistry Practicals

CHI-127: Inorganic Chemistry Practical

CHO-247: Organic Chemistry Practical

Semester – III

CHA-390: Electrochemical and Radio Analytical Methods of Analysis Electrochemical Methods of Analysis,

CHA-391: Pharmaceutical Analysis:

CHA-392: Advances in Analytical Techniques, Analytical Extraction Techniques,

Atomic spectroscopic analysis.

CHA-380: Analytical Method Development & Validation, Geochemical & alloy Analysis

Semester-IV

CHA-481: Analytical Toxicology and Forensic Science

Analytical Toxicology, Food Analysis

CHA-490: Analytical Spectroscopy

CHA-492: Method of Analysis and Applications Pollution Monitoring and Control, Analysis of Body Fluid, Carbon

Nanostructures and Applications of

Nanotechnology

CHA-387: Practical Course-I: Analysis of materials

CHA-487: Practical Course-II: Instrumental Analysis

CHA-488: Practical Course-III Analysis of Pharmaceutical, food and Bio analytical Samples OR Project work

ADDITIONAL COMPULSORY COURSES (10 credits)

Introduction To Cyber Security/ Information Security. (4credits)

Human Rights (2 Credits)

Skill Development (4 Credits)