



Deccan Education Society's
**Fergusson (Autonomous) College,
Pune**

Department of Environmental Science

M.Sc. (Environmental Science)



CURRICULUM

Environmental science with its multidisciplinary nature and holistic approach focuses on conservation and management aspects which help for survival of life on earth by understanding and tackling various problems that deteriorate the quality of the environment. Understanding of environmental science is becoming ever more necessary for every person and it is responsibility of all to protect and restore the quality of our environment by using scientific

knowledge. M.Sc.(Environmental Science) program will provide a unique opportunity to students to obtain skills that will enable them to pursue a career in the field of environmental sciences. It also develops attitude and interest along with necessary knowledge and proficiency among the students to encourage them to do further academic studies / research/career.

Its objective is to provide scientific and technology oriented knowledge to students and make them able to develop innovative solutions for better management of environment and to understand the effects of future developments of environmental issues and technology on people, and society.

It is a full time course of Two years and four semesters in which after second semester students have to complete compulsory one and half months industrial training. This course is intended for students from graduates in science faculty.

The basic aim of this course is to make knowledgeable students to solve environment related problems in following areas

- Prepare students to think about conservation and management of natural resources.
- Understand the principles of ecology and biodiversity through awareness and environmental education.

- To learn about Environmental pollution control, legislation and energy crises.
- Teach Social issues in relation to development and environment.
- Enable students to get sound understanding of advanced technologies in the field of environment management.
- To equip with knowledge and skills necessary to support for their career in the field of environmental science and technology.

RESEARCH ACTIVITY

The department is recognized Ph.D. Research centre under Savitribai Phule Pune University. Faculty from department has completed 06 minor research projects and 02 projects are ongoing sponsored by BCUD, SPPU and UGC. The department undertakes research related to waste water treatment, Phytoremediation, Biodiversity assessment, Environmental auditing, Carbon sequestration, etc. Students and faculty frequently present their research work at national and international level.

COURSES

M.Sc Environmental Science program is designed keeping in view the credits as per guidelines given by SPPU. Master's degree in Environmental Science is of 100 credits. Each student has to complete 100 credits in a minimum of four semesters.

PRESCRIBED COURSE (100 credits)

Semester - I

Environmental Biology, Environmental Chemistry, Environmental Geosciences, Environmental Statistics, Practical Courses I, Practical Course II

Semester - II

Environmental Pollution and Control I: Water and Soil, Biodiversity, Forestry and Natural Resources, Atmospheric Sciences, Water and Wastewater Engineering, Practical Courses I, Practical Course II

Semester - III

Environmental Pollution: Air, Noise and Radiation, EIA and Environmental Audit, Remote Sensing and GIS, Practical Course I, In-plant Training and Seminar.
Any two optional papers (2 credit each)

Semester -IV

Environmental Toxicology, Health and Safety, Restoration Ecology and Watershed Management, Renewable and Non-Renewable Energy, Environmental

Law Ethics and policy, Dissertation and Project Work.

Any two optional papers (2 credit each)

ADDITIONAL COMPULSORY COURSE (10 credits)

Introduction to Cyber Security/ Information Security, Human Rights, Skill Development, Research Methodology

PLACEMENT

FC Placements is the assured entry for M.Sc. students to environmental health and safety. As a part of pre-placement activity, our students undergo rigorous procedure to enhance their skills to the fullest before they are presented to the industry. This is an additional activity apart from regular college schedule.

This includes

- Lecture series on latest environmental issues by the eminent people from industry, academia and consultancy
- Project guidance by Industrial experts in the field of environmental technology
- Group discussion and various environment related activities

Technical and aptitude test

The department also organizes various special activities focusing on career opportunities by arranging industry academia interaction communication skill

programs

Our Recruiters

Following is the list of few prestigious companies, which have given placement to our M.Sc students.

Envirotech Consultancy, Surat

BAIF, Pune

Volkswagen , Chakan

Jog Builders

IBI consultancy, Pune

Orchid Ecotel, Mumbai.

Auxilife Scientific Services Ltd, pune

Consultancy in Hydrabad

Aquadam Pune

Auxilife Scientific Services Ltd, pune

Sustainability Initiative, Pune

Sustainability Initiative, Pune

TERI, Mumbai

Ultra Tech, Pune

IBI consultancy, Pune

Nalco Waters India Pvt Ltd, Pune

TechnoSysCon consultant

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