

### **M. Sc. Environmental Science:**

The Department has opted Choice Based Credit System from the academic year 2012-13. The syllabus of M.Sc. course is based on UGC-NET syllabus and includes professional skills in Science and Technology. The examination pattern followed is 80:20 patterns.

### **Post Graduate Diploma in Industrial Safety Health and Environment (PGDISHE)**

PGDISHE is a one-year add-on diploma course in the department for the students, which provides them with an opportunity of placement in Safety, Health and Environment sector in industries. The expert visiting faculty from the industrial field provides applied knowledge to the student.

<b>Duration of Program</b>	<b>1 Year</b>
<b>Examination</b>	Annual
<b>No. of Course Papers</b>	6
<b>Title of Course Paper</b>	1.Occupational Health and Environmental Safety Management 2. Safety at Workplace 3.Accident Prevention Techniques 4.Safety Management System and Legislation 5.Quality Control and Safety Management 6.Safety Engineering
<b>Inplant Training Duration</b>	3 Weeks Compulsory
<b>Project Duration</b>	1 Year
<b>Eligibility for Course</b>	Bachelor Degree from Science and Technology stream, Add on for M.Sc. Environmental Science.

### **Diploma in Industrial Safety Health and Environment (DISHE)**

<b>Duration of Program</b>	<b>1 Year</b>
<b>Examination</b>	Annual
<b>No. of Course Papers</b>	4
<b>Title of Course Paper</b>	1.Occupational Health and Hazards 2.Safety at Workplace 3.Accident Prevention and Techniques 4.Safety Management System
<b>Inplant Training Duration</b>	2 Weeks Compulsory
<b>Project Duration</b>	1 Year
<b>Eligibility for Course</b>	Add on course for B.Tech. The students with XII Science or Diploma in any branch of Engineering and Technology are eligible.

### **PG Diploma in Environmental Protection and Management (PGDEPM)**

<b>Duration of Program</b>	<b>1 Year</b>
<b>Examination</b>	Annual
<b>No. of Course Papers</b>	4
<b>Title of Course Paper</b>	1.Basic Concepts in Nature 2.Human Impact on Environment 3.Natural Resources Management 4. Pollution Monitoring and Control
<b>Project Duration</b>	1 Year
<b>Eligibility for Course</b>	Graduate from any faculty or Stream from recognized University.

### **❖ FACILITIES / SERVICES OFFERED:**

**Well equipped Laboratory having highly sophisticated Instruments**

1. Atomic Absorption Spectrophotometer (AAS)
2. TKN Analyzer
3. Multigas Detection Device
4. COD Digester
5. Flame Photometer
6. ION analyzer
7. UV-Spectrophotometer
8. pH/EC/TDS/Turbidity Meter
9. GPS
10. Stack Monitoring Kit
11. PM<sub>2.5</sub> and PM<sub>10</sub> Air sampler
12. Auto Exhaust Analyzer
13. Deep Freezer
14. Laminar Air Flow
15. Cooling Centrifuge
16. Automatic Shaker
17. Photo catalytic Convertor

#### **Ambient Air Quality Monitoring of Kolhapur City**

Ambient air quality of Kolhapur City is monitored by department at three centres viz. Dabholkar corner, Mahadwar road and Shivaji University campus under National Ambient Air Quality Monitoring Programme (NAAQM), MPCB, Mumbai since 2004.

**Research Areas:** Thrust research areas are -

1. Water Quality Monitoring
2. Demographic study
3. Air pollution monitoring
4. Wildlife studies and Biodiversity Conservation
5. Environmental Impact Assessment
6. Toxicity study
7. Disaster Management

**Publications:** Research Publications in the National and International Journals of repute.

- Number of papers published in peer reviewed journals : **88**
- Edited books : **6**
- Books with ISBN: **4**
- Green Audits : **10**

### Consultancy Services:

1. Monitoring and analysis of Water, Soil, Air, Noise etc.
2. Environmental Impact Assessment
3. Training related to pollution monitoring
4. Conducts the supportive survey for the Baseline data collection
5. Ambient air quality and stack monitoring

### Ongoing Projects and Funding:

Sr. No	Sanctioning Agency	Starting Year	Status	Funding (In Rs.)
1.	DAE - BRNS	2009	Completed	34,64,700/-
2.	DAE - BRNS	2009	Completed	46,45,975/-
3.	MPCB	2004	Ongoing	78,19,483/-
4.	MoEFCC	2010	Ongoing	27,26,440/-
5.	UGC	2010	Completed	9,54,300 /-
6.	DBT - IPLS	2012	Completed	37,46,756/-
7.	DAE-BRNS	2013	Completed	24,88,050/-
8.	UGC	2013	Completed	5,35,500/-
9.	CPCB	2014	Ongoing	21,00,000/-
10.	DST- PURSE	2018	Ongoing	45,92,750/-
11	Forest Department ,Maharashtra	2019	Ongoing	2,00,000/-
12	Research Strengthening SUK	2019	Ongoing	3,00,000/-



FDP on Industrial Revolution through Green Technology



Star Rating Program with MPCB and EPIC India



Workshop on Environmental And Safety Management



Workshop and Demonstration on Fire Safety

### Placement of the students

Department provides assistant for the placement of student through Placement Cell. Majority students are selected through campus interview. Students are placed in Government, Semi Government, NGOs and some are self-employed. Some important companies where our students are placed are

- Tata Consultancy Services
- Honda Motors
- Tata Housing Ltd.
- DST, Mantralaya, Mumbai
- Centre for Environmental Education, New Delhi
- Maharashtra Pollution Control Board
- Bombay Natural History Society, Mumbai
- Novarti's
- Peacock Aqua Engineers, Hyderabad
- Godrej Agrovet Ltd.
- JDPL, Goa
- CETP, Mahad
- Pride Builders
- Kumar Builders
- General Motors
- Piramal Health Care Centre
- Warana Hydro Power
- RATHI Foods

### Collaboration /MoU

- ❖ CSIR-National Environmental Engineering Research Institute (CSIR-NEERI), Nagpur.
- ❖ Bhabha Atomic Research Centre (BARC), Mumbai.
- ❖ Indian Institute of Geomagnetism (IIG), Mumbai.
- ❖ Maharashtra Pollution Control Board (MPCB), Mumbai

**Edu-SAT:** The department is part of IIRS Edu-SAT program, which is a distance learning initiative for Indian Universities.

**Departmental Library:** Department has established its own library for student having collection of more than 500 books, journals and magazines on environment.



## Department of Environmental Science



### Vision

Department is always concerned for the nature conservation and committed for sustainable development through environmental education.

### Mission

The Department seeks to protect, conserve and vitalize the local, regional and national environmental wealth through research, awareness and action for a healthy today and better tomorrow.

### Programmes offered

Name of Programme	Intake
Masters in Environmental Science (M. Sc.)	50
Doctorate in Philosophy (Ph. D.)	12
Masters in Philosophy (M. Phil.)	06
Post Graduate Diploma in Industrial Safety Health and Environment (P.G.D.I.S.H.E.)	50
Post Graduate Diploma in Environmental Protection and Management (P.G.D.E.P.M.)	30
Diploma in Industrial Safety Health and Environment (D.I.S.H.E.)	50

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