

**INSTITUTE OF ENVIRONMENTAL STUDIES  
KURUKSHETRA UNIVERSITY KURUKSHETRA**

**INFORMATION ABOUT ACADEMIC DEPARTMENTS FOR WEB PORTAL**

**Department Profiles**

M.Sc. Environmental Science has been started as a professional course from the academic session 2006-2007. The M.Sc. programme provides professional skills to the students in the key areas of environmental science such as Environmental Management, Biodiversity Assessment and conservation, Pollution control and waste management, Environmental biotechnology, Ecological Economics, and environmental policy and planning so as to create career opportunities for the students in following sectors:

- Environmental policy and planning.
- Industry (Environmental impact Assessment, Sustainable resource management, waste management, environmental biotechnology).
- Government and Business Sector (Environmental Manager, Environmental consultant, Analysts).
- Universities and Research Institutes (Teaching and Research)

Director : Prof. Sharda R. Gupta

Contact Information : Ph. 01744-238404(O)  
Fax 238035

**Faculty Information**

Director - Prof. Sharda R. Gupta, M.Sc., Ph. D.

Professor - Visiting Faculty (Three)

Reader - Visiting Faculty (One)

Lecturer - Visiting Faculty (Four)  
(Since August, 2006)

**Courses Offered**

Type of course (Postgraduate & others)      System of Examination

M.Sc. Environmental Science                      Semester System

### Profile of different courses offered

Degree Type	Course Duration	No of sanctioned seats	Scheme of Exam.(Annual/Semester)
M.Sc. Environmental Science	Two years	25	Semester System

### Details of different Courses

Course Name : M.Sc. Environmental Science  
Course Type : Post graduation (Professional)  
Exam Scheme : Semester System  
Duration : Two years

### Semester-wise/Year-wise details

#### **M.Sc.(Previous) Environmental Science (First Semester)**

Paper Code	Paper Name	Paper Type	Max Marks
MES-101	The Biophysical Environment	Compulsory	75
MES-102	Environmental Chemistry	-do-	75
MES-103	Ecology and Ecosystem Dynamics	-do-	75
MES-104	Environmental Modelling and Statistics	-do-	75
MES-105	Practical-I(Biophysical Environment and Environmental Chemistry)	-do-	80
MES-106	Practical-II (Ecology, Environmental Modelling and Statistics)	-do-	80
	Seminars		20
	Term Paper		20

#### **M.Sc. (Previous) Environmental Science( Second Semester)**

Paper Code	Paper Name	Paper Type	Max Marks
MES-107	Natural Resource Management	Compulsory	75
MES-108	Conservation and Biodiversity	-do-	75
MES-109	Pollution and Global Climate Change	-do-	75
MES-110	Environmental Methods and Analytical Techniques	-do-	75
MES-111	Practical-III (Resources and Biodiversity)	-do-	80
MES-112	Practical-IV (Environmental Pollution and Analytical Techniques)	-do-	80
	Seminars		20
	Term Paper		20

### M.Sc. (Final) Environmental Science( Third Semester)

Paper Code	Paper Name	Paper Type	Max Marks
MES-113	Environmental Biotechnology	Compulsory	75
MES-114	Remote Sensing and Geographical Information Systems	-do-	75
MES-115	Ecotoxicology and Environmental Health	-do-	75
MES-116	Environmental Planning, Policy and Law	-do-	75
MES-117	Practical-V (Environmental Biotechnology and GIS)	-do-	80
MES-118	Practical-VI (Ecotoxicology)	-do-	80
	Seminar		20
	Term Paper		20
	Minor Project		60

### M.Sc. (Final) Environmental Science (Fourth Semester)

Paper Code	Paper Name	Paper Type	Max Marks
MES-119	Agroecology and Agroforestry	Compulsory	75
MES-120	Environmental Impact Assessment and Auditing	-do-	75
MES-121	Ecotechnology and Ecological Restoration	-do-	75
MES-122	Ecological Economics	-do-	75
MES-123	Lab-VII (Agroecology, Impact Assessment, and Ecological Restoration)	-do-	100
	M.Sc. Dissertation		Evaluation
	Seminar		20
	Term Paper		20

#### Facilities

Library : Departmental library has books in emerging fields of Environmental Science and Ecology

Teaching Labs :  
1. Ecology, Natural Resources and Biodiversity Conservation  
2. Environmental Chemistry and Pollution Analysis  
3. Computers and GIS  
4. Environmental Biotechnology

Others facilities : Seminar room, field experimental facilities

## **Placement Cell**

Will be operational in near future during 4<sup>th</sup> semester

## **Information on Seminar and Conferences**

Seminar/Conferences organized by the Department (2006-07) :

Prof. Brij Gopal (Jawahar Lal Nehru University, New Delhi) delivered a lecture on “Wetland Management; and Restoration of River Yamuna flood-plane.

Prof. O.P. Toky (CCS Haryana Agricultural University, Hisar) delivered a lecture on “Conservation of Biodiversity of dry lands”, and Shifting Agriculture dated 29 September 2006.

Prof. S.R. Gupta delivered a lecture on “Wetlands: Management and Conservation”, on Wetland Day on 10 February, 2007 , at GuruNanak Khalsa College, YamunaNagar.

Prof. Nand Lal (Visiting fellow in the institute) delivered a lecture on “Ground Water Management” on, at GuruNanak Khalsa College, YamunaNagar.

## **Information on Research Activities (Projects)**

A short-term research project has been sponsored by the environment department, Government of Haryana, Chandigarh

<b>Topic Name</b>	<b>Incharge</b>	<b>Date From</b>	<b>Date To</b>
Impact Assessment of land-We practices on Ecosystem Properties in Kalesar Forest	Prof. S.R. Gupta	20.02.07	31.07.07

## **Information on Achievement**

### **Organization of environmental awareness programmes**

During the short duration of the initiation of the Institute of Environmental Studies, well equipped experimental laboratories, computer laboratory and seminar room and lecture rooms with modern facilities have been developed for the professional training of the students.

The various environmental awareness activities have been organized in the institute with the participation of interdisciplinary faculty and the M.Sc. students. The World Environment Day was celebrated on 5 June, 2006 to create environmental awareness for conserving biodiversity of dry lands, management of water resources, and promoting

plantations of indigenous trees and medicinal plants. On the international Ozone Day, a poster exhibition and seminar on the importance of protecting the ozone layer and conserving biodiversity was organized. The students of M.Sc. environmental science participated in seminars in emerging areas of environmental science. The students have visited Kalesar National Park, Hydroelectric Project, Effluent Treatment Plant, Herbal Garden, Wetland Ecosystems, Vermi-composting site and on site use of renewable Energy from Solar heaters and Biogas plant as part of the field training.