

**School of Environmental Sciences**  
**Monsoon Semester 2025 List of Teaching Courses for M.Sc. I**

(All courses are in line with the NEP 2020)


Date: 30.05.2025

Sl. No.	Course Code	Course Title	Faculty	Credits
1.	ES001A	Environmental Physics	AKS/LKTV	2
2.	ES002A	Statistics	KK/AKM	2
3.	ES003A	Essentials of Earth Sciences	RKU/AKT	2
4.	ES004A	Natural Resource Management	MLD/SK	2
5.	ES005A	Environmental Chemistry	UCK/DM	2
6.	ES006A	Environmental Pollution	SY/AM	2
7.	ES007A	Ecology	SCG/UM	2
8.	ES008A	Environmental Biology	PR/RM	2
9.	ES009A	Analytical Techniques in Environmental Sciences	KM/DM	2
10.	ES010A	Laboratory-I	*CC: RPK (MSc In-Charge)	3

1. All the courses in the list are compulsory. Each student will therefore do a **total of 21 credits**.
2. \*CC: Laboratory Practical will be conducted by more than one faculty under the Course Coordinator.

*Meenakshi Dua*  
 30.05.2025  
 Meenakshi Dua  
 Convener, TT & EC, SES

*Prof. N.J. Raju*  
 30.5.2025  
 Prof. N.J. Raju  
 Dean, SES



Cc: All faculty members, AO SES, School Office for display on Notice Board.  
*and IES webpage.*

**School of Environmental Sciences**  
**Monsoon Semester 2025 List of Teaching Courses for Ph.D. II**

Date: 30.05.2025

Sl. No.	Course Code	Course Title	Faculty	Credits
<b>AREA I</b>				
1.	ES-655R	Statistical Methods and Data Analysis in R	KK	2
2.	ES-692R	Aerosol and Cloud Physics	AKM	2
3.	ES-697R	Remote Sensing of Air Pollution	AKS	2
<b>AREA II</b>				
4.	ES-618R	Geochemistry of Fossil Fuels	SK	2
5.	ES-644R	Geochemical Cycles	AKT	2
6.	ES-693R	Engineering Geology	RKU	2
7.	ES-699R	Ocean Exploration and Environment	DKP	2
<b>AREA III</b>				
8.	ES-632R	Air Pollution	UCK	2
9.	ES-695R	Sustainable Environmental Management	AM	2
<b>AREA IV</b>				
10.	ES-687R	Host-Pathogen Interaction and Environment	KM	2
11.	ES-688N	Postgenomic Advances in Microbial Ecology	MD	2
12.	ES-643R	Climate Change and Air Pollution Implications on Plant Biodiversity	UM	2
13.	ES-622R	Cell and Environment	IG	2
14.	ES-636R	Radiation and Molecular Biophysics	RM	2

1. All given courses are electives. Please select **ANY TWO** from these.
2. Detailed course content for each course can be found on the SES webpage.

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*Prof. N.J. Raju*  
 30.05.2025  
**Prof. N.J. Raju**  
 DEAN  
 School of Environmental Sciences

**School of Environmental Sciences**  
**Monsoon Semester 2025 List of Teaching Courses for M.Sc. III**

Date: 30.05.2025

Sl. No.	Course Code	Course Title	Faculty	Credits
1.	ES-203	Meteorology		
2.	ES-205	Environmental Physics	AKM	3
3.	ES-233	Atmospheric Radiation and Applications	AKS	3
4.	ES-208	Groundwater Hydrology	LKTV	3
5.	ES-210	Natural Resource Management	NJR	3
6.	ES-213	Environmental Geology	MLD/SK	3
7.	ES-122	Green Chemistry for Sustainable Environment	RKU	3
8.	ES-218	Solid and Hazardous Waste Management	AM	3
9.	ES-219	Metrology	BSS	3
10.	ES-220	Pollution Biology	UCK	3
11.	ES-223	Microbial Ecology	KM/PR	3
12.	ES-226	Ecology and Sustainable Development	MD	3
13.	ES-228	Fundamentals of Molecular Biology and Biotechnology	UM	3
14.	ES-229	Applied Biotechnology and Bioremediation	IG/RM	3
15.	ES-232	Agroecology and Sustainable Agriculture	KP	3
			UM	3

1. All given courses are electives. Please select **ANY FOUR** from these.
2. Detailed course content for each course can be found on the SES webpage.

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