

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

(All courses are in line with the NEP 2020)

Date: 08.09.2025

Sl. No.	Course Code	Course Title	Faculty	Credits
CORE COURSES				
1.	ES-601A	Research and Publication Ethics	DM/PKJ	2
2.	ES-602A	Research Methodology	KK/AKM/KM/MD	4
ELECTIVE COURSES				
AREA I				
3.	ES-611A	Air Pollution Meteorology	RPK	2
4.	ES-612A	Atmospheric Instrumentation and Measurements	LKTV	2
5.	ES-613A	Atmospheric Processes	AKM	2
6.	ES-614A	Urban Climate and Air Quality	KK	2
AREA II				
7.	ES-621A	Critical Mineral Exploration for Energy Resource Management	MLD	2
8.	ES-623A	Earth Processes	AKT	2
9.	ES-624A	Geohazards	RKU	2
AREA III				
10.	ES-631A	Aquatic and Wetland Ecology	SM	2
11.	ES-632A	Carbon Capture and Storage	AM	2
12.	ES-681A	Aerosol Geochemistry	SY	2
13.	ES-634A	Critical Zone Mineralogy and Geochemistry	JKT	2
14.	ES-635A	Solid Waste Management and Climate Change	BSS	2
AREA IV				
15.	ES-641A	Advances in Molecular Biology	RM	2
16.	ES-642A	Antimicrobial Resistance and Environment	KM	2
17.	ES-643A	Applied Environmental Microbiology	KP	2
18.	ES-644A	Ecosystem Processes	PKJ	2
19.	ES-645A	Ecotoxicology	IG	2
20.	ES-646A	Environment and Carcinogenesis	PR	2
21.	ES-647A	Rehabilitation Ecology	DN	2

- Core Courses (1 & 2) are compulsory for every student.
- Students with an MSc as the eligible qualification will have to choose a minimum of 2 electives from their respective Area of admission.
- Students with a BSc/BTech as an eligible qualification will have to choose a minimum of 5 electives, including at least 2 electives from their respective Area of admission.
- Detailed course content for each course can be found on the SES webpage.

Meenakshi Dua
 Convener - IT & EC, SES

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

Prof. N.J. Raju
 Dean, SES

