

PO5 Graduate has acquired the sense of responsibility to safeguard the environment as a constitutional duty.

5. Programme structure (MSc Environmental Science)

Total Credits requirement: 80

Structure of the curriculum

Course category	No of courses	Credits per course	Total Credits
Core courses	22	1/2/3/14	68
Elective courses			
Departmental Elective	3	2	6
Open Elective (CBCS)	2	3	6
Total credits	27	-	80

6. SEMESTER-WISE SCHEDULE

SEMESTER I

Course type	Course title	Lecture (L)	Tutorial (T)	Practical (P)	Contact Hour (CH)	Credits
Core	ES 551: Fundamentals of Environmental Science	2	0	0	2	2
	ES 552: Statistical Methods and Environmental Application	2	0	1	4	3
	ES 553: Ecology and Ecosystem Dynamics	2	0	1	4	3
	ES 554: Earth Processes and Natural Hazards	3	0	0	3	3
	ES 555: Environmental Chemistry and Toxicology	2	0	1	4	3
	ES 559: Environmental Physics	3	0	0	3	3
Elective	No electives on in Semester I					

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SEMESTER II

Course type	Course title	Lecture (L)	Tutorial (T)	Practical (P)	Contact Hour (CH)	Credits
Core	ES 556: Solid Waste Management and Technology	2	0	1	4	3
	ES 557: Climatology and Meteorology	2	0	0	2	2
	ES 558: Environmental Biology	2	0	1	4	3
	ES 560: GIS-Remote Sensing and application	1	0	1	3	2
	ES 572: Natural Resource and Biodiversity Conservation	3	0	0	3	3
	ES 576: Environmental System Analysis	3	0	0	3	3
	ES 573: Environmental Extension and Field Survey	1	0	0	3	1
Elective	Departmental Elective 1*	2	0	0	2	2
	Open Elective 1	3	0	0	3	3

SEMESTER III

Course type	Course title	Lecture (L)	Tutorial (T)	Practical (P)	Contact Hour (CH)	Credits
Core	ES 562: Analytical Methods	3	0	0	3	3
	ES 564: Agriculture and Environmental Sustainability	2	0	0	2	2
	ES 565: Environmental Pollution and Management	2	0	1	4	3
	ES 566: Soil Science	2	0	1	4	3
	ES 567: Environmental Plant Physiology and Biochemistry	2	0	1	4	3
	ES 568: Hydrogeochemical Processes	2	0	0	2	2
Elective	Departmental Elective 2*	2	0	0	2	2

Open Elective 2	3	0	0	3	3
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SEMESTER IV

Course type	Course title	Lecture (L)	Tutorial (T)	Practical (P)	Contact Hour (CH)	Credits
Core	ES 563: Environmental Impact Assessment	2	0	0	2	2
	ES 569: Energy and Environment	2	0	0	2	2
	ES 550: Project	0	0	14	14	14
Elective	Departmental Elective 3*	2	0	0	2	2

***List of Departmental electives**

ES 575: Atmospheric Chemistry

ES 574: Laboratory Safety

ES 571: Climate Change and Its Impacts

ES 570: Environmental Laws and Policies

ES 548: Environmental Economics

ES 546: Environmental Biotechnology

ES 545: Human Population, Social Issues, and the Environment

ES 547 Agro-Forestry and Forest Management

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7. Mapping of course with program outcomes (POs)

Programme outcomes	PO1	PO2	PO3	PO4	PO5
ES 551: Fundamentals of Environmental Science	x		x		x