

SEMESTER I

	Subject code	Courses	L-P	Category	Credits
		<u>Theory</u>			
1.	ES 401	Fundamentals of Environmental Science	4-0	C	4
2.	ES403	Environmental Chemistry	4-0	C	4
3.	ES405	Environmental Biology	4-0	C	4
4.	ES407	Statistical Methods and Introduction to Environmental Modelling	4-0	C	4
5	ES409	Environmental Biophysics	2-0	C	2
6.	EN521	Advanced course in Professional Communications	2-0	SEC	2
		<u>PRACTICALS</u>			
7.	ES411	Laboratory-1	8	C	4
8.	ES413	Field Visit	1	C	1
		Total	20-9		25
		Total Contact Hours	29		

SEMESTER II

S.No.	Subject code	Courses	L-P	Category	Credits
		<u>Theory</u>			
1.	ES 402	Earth Resources and Processes	3-0	C	3
2.	ES404	Oceanography	3-0	C	3
3.	ES406	Soil Science	3-0	C	3
4.	ES408	Environmental Pollution	3-0	C	3
5.	ES410	Global Climate Change	3-0	C	3
6.	ES412	Hydrology	3-0	C	3
8.		<u>Generic Elective</u> <u>Select any one course</u>			
i.	FT511	Food Industry Waste Management	3-0	GE	3
ii	CH 507	Green Chemistry	3-0	GE	3
9.	ES414	<u>Laboratory-II</u>	0-8	C	4
		Total	21-8		25
		Total Contact Hours	29		

Generic Elective :

i) FT511 Food Industry Waste Management

ii) CH 507 Green Chemistry

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SEMESTER III

S.No.	Subject code	Courses	L-P	Category	Credits
		<u>Theory</u>			
1.	ES 501	Environmental Toxicology and Bioremediation	3-0	C	3
2.	ES503	Environmental Conservation and Biodiversity	3-0	C	3
3.	ES505	Remote Sensing and Geographic Information System	3-0	C	3
4.	ES507	Waste management	3-0	C	3
5.	ES509	Environmental Impact Assessment & Sustainable Development	3-0	C	3
6.	ES511	Advanced Analytical Techniques for Environmental Monitoring	4-0	C	4
7.	CH503	Patent laws and IPR issues	2-0	SEC	2
		<u>PRACTICALS</u>			
7.	ES521	Laboratory-III	0-8		4
		Total	24-8		25
		Total Contact Hours	32		

SEMESTER IV

S.No.	Subject code	Courses	L-P	Category	Credits
		<u>Theory</u>			
1.	ES 502	Dicipline Specific Elective 1 <u>Select any one course</u> Energy and Environment	3-0 3-0	DSE DSE	3 3
	ES 508	Natural Hazards and Disaster Management			
2.	ES504	Dicipline Specific Elective 2 <u>Select any one course</u> Environmental Economics, Policies, Conservation and Legislations	3-0	DSE	3
	ES510	Natural Catastrophe Risk Modeling and Climate Change Impact	3-0	DSE	3
		<u>PRACTICALS</u>			
7.	ES506	Project	0-30		15
		Total	6-30		21
		Total Contact Hours	36		

Total Credits 95

Abbreviation:

- ❖ Core(C)
- ❖ Generic Elective (GE)
- ❖ Skill Enhancement Courses(SEC)
- ❖ Dicipline Specific Elective(DSE)

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