



Department of Environmental Science

Evaluation Scheme of Undergraduate & Post Graduate Program as per NEP-2020 Guidelines

w.e.f. Session 2024-25

Certificate in Environmental Science

Year: First / Semester: First (Odd Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination	Subject Total	Total Credit Points	Attributes								United Nations Sustainable Development Goals (SDGs)		
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment &	Human Value	Professional Ethics				
Major 1																								
1	B150101T/ES125	Basics ofEnvironmental Science	Theory	Major 1	4	0	2	15	10	25	75	100	06	✓	✓			✓						
	B150102P/ES126	Practical on Environment	Practical					15	10	25	75	100												
3	B150103T/ ES127	Environmental Chemicals and toxicants	Theory		4	0	2	15	10	25	75	100	06	✓	✓	✓		✓						
	B150104P/ ES128	Toxicant Analysis Lab	Practical					15	10	25	75	100												
4	I150107T/ES131	Introduction to Natural Hazards and Disaster Management	Theory	Vocational (anyone)	2	1	0	-	-	-	-	100	03	✓	✓	✓		✓					 	
5	I150108T/ES132	Water Monitoring and Conservation Techniques	Theory		2	1	0	-	-	-	-	100	03	✓	✓	✓		✓					  	
6		MOOC/SWAYAM	Theory		0	0	0	0	0	0	0	0	03											
7	Z010101T/BE105	Food Nutrition and Hygiene	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02			✓		✓	✓					
8	A050101T/HM101	Rastriya Gaurav	Theory	Audit course	0	0	0	0	0	0	0	0	0					✓	✓					
TOTAL					12	1	4	75	50	125	375	600	17											

Minor Elective offered by Department of EVS to all: B150109T/ES142-Human and Environment (04-Credit)

Department of Environmental Science
 Evaluation Scheme of Undergraduate & Post Graduate Program as per NEP-2020 Guidelines
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Certificate in Environmental Science

Year: First / Semester: Second (Even Semester)

S. N.	Course Code	Course Title	Theory/ Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)	
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment &	Human Value	Professional Ethics		
Major 1																						
1	B150201T/ES133	Environmental Biology	Theory	Major 1	4	0	2	15	10	25	75	100	06	✓	✓		✓	✓				
	B150202P/ES134	Practical on Environmental Biology	Practical																			
2	B150203T/ES135	Eco-Restoration and Invaded Ecosystems	Theory		4	0	2	15	10	25	75	100	06	✓	✓	✓		✓				
	B150204P/ES136	Ecosystem Dynamic Lab	Practical																			
Multi-Disciplinary																						
3	B190103T/CH135	Water Treatment and Analysis	Theory	Anyone	4	0	2	15	10	25	75	100	06	✓	✓	✓		✓				
	B190104P/CH136	Water Quality Analysis	Practical																			
4	B150205T/ES137	Natural Resources and its Management	Theory		4	0	2	15	10	25	75	100		✓	✓	✓		✓				
	B150206P/ES138	Natural Resources Lab	Practical																			
5	A070201T/SS108	Society in India: Structure Organization and Change	Theory		6	0	0	15	10	25	75	100		✓	✓	✓		✓				
6		MOOC/SWAYAM	Theory	Vocational Course	0	0	0	0	0	0	0	0	03									
7	I150208T/ES140	Ecotourism and Wildlife Management	Theory		3	0	0	-	-	-	-	100	03	✓	✓	✓		✓				
8	Z020201T/NS110	First Aid and Health	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02			✓		✓	✓			
9	B150207T/ ES139	AI for Earth and Environmental Sciences	Theory	Audit course	0	0	0	0	0	0	0	0	0			✓		✓	✓			
TOTAL					17	0	6	105	70	175	600	800	23									

Minor Elective offered by Department of EVS to all : B150209T/ ES141- Introduction to Environmental Studies (4 Credit)
 B150210T/ES143- Environmental education and Sustainable Management (6 Credit)

Department of Environmental Science

Evaluation Scheme of Undergraduate & Post Graduate Program as per NEP-2020 Guidelines

w.e.f. Session 2024-25

Diploma in Environmental Science

Year: Second / Semester: Third (Odd Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)																
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics																	
Major 1			Theory	Major 1	4	0	2	15	10	25	75	100	06	✓	✓	✓	✓	✓	✓	✓																	
1	B150301T/ES218	Biodiversity and its Conservation						15	10	25	75	100											B150302P/ES219	Practical on understanding Biodiversity	15	10	25	75	100								
2	B150303T /ES220	Human-Wildlife Conflict and Management	Theory		4	0	2	15	10	25	75	100	06	✓	✓	✓	✓	✓	✓	✓																	
	B150304P /ES221	Wildlife Management Lab	Practical					15	10	25	75	100																									
3	I150307T/ ES224	Environment and Economics	Theory		Vocational (anyone)	2	1	0	-	-	-	-	100	03	✓	✓	✓	✓	✓	✓	   																
4	I150308T/ ES226	Environment and Sustainability	Theory																																		
5		MOOC/SWAYAM	Theory	0																		0	0	0	0	0	0	0	03								
6		**Regional Languages	Theory	Co-curricular (Compulsory)																		2	0	0	15	10	25	75	100	02	✓		✓		✓	✓	✓
TOTAL					12	1	4	75	50	125	375	600	17																								



Department of Environmental Science

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Diploma in Environmental Science

Year: Second / Semester: Fourth (Even Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)			
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethic				
Major 1			Theory	Major 1	4	0	2	15	10	25	75	100	06	✓	✓			✓						
1	B150401T/ES227	Environmental Pollution & Management						Practical	15	10	25	75												100
	B150402P/ES228	Practical on Environmental Pollution																						
2	B150403T /ES229	Basics of Environmental Methods and Analytical Techniques	Theory		4	0	2	15	10	25	75	100	06	✓	✓	✓		✓						
		B150404P/ ES230	Analytical Techniques Lab					Practical	15	10	25	75												
Multidisciplinary			Theory		(anyone)	4	0	2	15	10	25	75	100	06	✓		✓	✓		✓	✓			
3	A070401T/SS211	Social Problems & Issues of Development in India		Practical					15	10	25	75	100											
	A070402R/SS212	Projects on Sustainable Society				15	10	25	75	100														
4	B150405T/ES231	Soil Conservation and its Management	Theory	4		0	2	15	10	25	75	100	06	✓		✓		✓						
		B150406P/ES232	Soil Analysis Lab					Practical	15	10	25	75												100
5	B190403T/CH242	Industrial Waste Treatment & Management	Theory	4		0	2	15	10	25	75	100	06	✓	✓	✓		✓						
6	B190404P/CH243	Industrial Waste Analysis	Practical		15			10	25	75	100													
7	Z040401T/PH201	Physical Education and Yoga	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02			✓		✓	✓					
8	B150407R/ ES237	Internship/Apprenticeship (Research Project I)	NTCC	Industry/skill -based	0	0	0	00	00	00	00	100	03	✓	✓	✓		✓	✓					
TOTAL					14	0	12	120	80	200	600	800	23											

Minor Elective offered by Department of EVS to all: B150409T/ ES235: Introduction to Sustainable Development (04-Credit)

B150410T/ ES236: Disaster Risk Reduction and Management (04-Credit)



**Evaluation Scheme of Undergraduate & Post Graduate Program as per NEP-2020 Guidelines
w.e.f. Session 2024-25**

Year: Third / Semester: Sixth (Even Semester)

Disc(15) in Environmental Science					Year 1/ Sem(1) / Semester (Even Semester)																						
S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)						
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics							
Major 1				Major 1 (anyone 4)	4	0	1	15	10	25	75	100	05	✓	✓			✓									
1	B150601T/ ES323	Environmental Legislation and Impact Assessment	Theory					15	10	25	75	100															
	B150602P/ ES324	Practical on EIA, Biostatistics, and Computer Applications	Practical					15	10	25	75	100															
2	B150603T/ ES325	Environmental Priorities and Research Tools	Theory					4	1	0	15	10	25	75	100	05	✓	✓	✓		✓						
3	B150604T/ ES326	Environmental Management Strategies	Theory					4	1	0	15	10	25	75	100	05	✓	✓	✓	✓	✓	✓	✓				
4	B150605T/ ES327	Environmental Monitoring and modelling	Theory					4	0	1	15	10	25	75	100	05	✓	✓	✓		✓						
	B150606P/ ES328	Environmental monitoring Lab	Practical					15	10	25	75	100															
5	B150607T/ ES329	Remote sensing & Geographical Information System	Theory					4	0	2	15	10	25	75	100	05	✓	✓	✓		✓						
	B150608P/ ES330	Remote sensing and GIS Lab	Practical	15	10	25	75				100	✓	✓	✓			✓										
6	B150609R/ ES331	Internship/Apprenticeship (Research Project III)	NTCC	Industry/Skill based	0	0	0	00	00	00	00	100	05	✓	✓	✓		✓									
TOTAL					16	2	9	120	80	200	600	800	25														



Department of Environmental Science
Evaluation Scheme of Undergraduate & Post Graduate Program as per NEP-2020 Guidelines
w.e.f. Session 2024-25

***B.Sc. (H) with Research in Environmental Science**

Year: Fourth / Semester: Seventh (Odd Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes									
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	United Nations Sustainable Development Goals (SDGs)		
Specialized Elective			Theory	Compulsory	3	1	0	15	10	25	75	100	04	✓	✓			✓				  	
1	B150701T/ ES413	Atmospheric Sciences and Global Climate Change			3	1	0	15	10	25	75	100	04	✓	✓	✓		✓					
2	B150702T/ ES414	Waste Management			3	1	0	15	10	25	75	100	04	✓	✓	✓		✓				 	
3	B150703T/ ES415	Advanced studies in Environment and Ecology			3	1	0	15	10	25	75	100	04	✓	✓	✓	✓	✓				  	
4	B150704T/ ES416	Watershed management			3	1	0	15	10	25	75	100	04	✓	✓	✓		✓					
5	B150705T/ ES417	Urban ecology and ecosystems			3	1	0	15	10	25	75	100	04	✓	✓	✓	✓	✓					
TOTAL					15	5	00	75	50	125	375	500	20										

***(No internship)**



Department of Environmental Science
Evaluation Scheme of Undergraduate & Post Graduate Program as per NEP-2020 Guidelines
w.e.f. Session 2024-25

***B.Sc. (H) with Research in Environmental Science**

Year: Fourth / Semester: Eighth (Even Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes								United Nations Sustainable Development Goals (SDGs)
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
Specialized Elective			Theory	Compulsory	3	1	0	15	10	25	75	100	04	✓	✓			✓			  	
1	B150801T/ ES419	Marine and Coastal Science			3	1	0	15	10	25	75	100	04	✓	✓	✓						
2	B150802T/ ES420	Environmental toxicological Studies	3		1	0	15	10	25	75	100	04	✓	✓	✓			✓		 		
3	B150803T/ ES421	Industrial hygiene and occupational health	3		1	0	15	10	25	75	100	04	✓	✓	✓			✓		  		
4	B150804T/ ES422	Applied Bioremediation	3		1	0	15	10	25	75	100	04	✓	✓	✓					    		
5	B150805T/ ES423	Climate change and resilience Studies	3		1	0	15	10	25	75	100	04	✓	✓	✓			✓	✓	✓		
TOTAL					15	5	00	75	50	125	375	500	20									

*(No internship)

Minor Elective offered by Department of EVS to all: B150806T/ ES424: Hydrology and Water Resources (04-Credit)

B150807T/ ES425: Environmental Ethics (04- Credit)

Evaluation Scheme of Undergraduate & Post Graduate Program as per NEP-2020 Guidelines

w.e.f. Session 2024-25

Year: Fourth / Semester: Seventh (Odd Semester)

B.Sc. (H) with Research in Environmental Science													Year: Fourth / Semester: Seventh (Odd Semester)									
S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)	
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
Specialized Elective (Any four)			Theory	(Any four)	3	1	0	15	10	25	75	100	04	✓	✓			✓			  	
1	B150701T/ ES413	Atmospheric Sciences and Global Climate Change			3	1	0	15	10	25	75	100	04	✓	✓			✓				
2	B150702T/ ES414	Waste Management			3	1	0	15	10	25	75	100	04	✓	✓	✓		✓				
3	B150703T/ ES415	Advanced studies in Environment and Ecology			3	1	0	15	10	25	75	100	04	✓	✓	✓	✓	✓			 	
4	B150704T/ ES416	Watershed management			3	1	0	15	10	25	75	100	04	✓	✓	✓		✓			  	
5	B150705T/ ES417	Urban ecology and ecosystems			3	1	0	15	10	25	75	100	04	✓	✓	✓	✓	✓				
6	B150706R/ ES418	Internship/Apprenticeship (Research Project IV)	NTCC	Industry/skill-based	0	0	0	00	00	00	00	100	04	✓	✓	✓		✓		 		
TOTAL					12	4	00	75	50	125	375	500	20									



Department of Environmental Science

Evaluation Scheme of Undergraduate & Post Graduate Program as per NEP-2020 Guidelines

w.e.f. Session 2024-25

B.Sc. (H) with Honours with Research in Environmental Science

Year: Fourth / Semester: Eighth (Even Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes								United Nations Sustainable Development Goals (SDGs)
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
Specialized Elective (Any four)			Theory	Specialized Elective (Any four)	3	1	0	15	10	25	75	100	04	✓	✓			✓				  
1	B150801T/ ES419	Marine and Coastal Science			3	1	0	15	10	25	75	100	04	✓	✓	✓						
2	B150802T/ ES420	Environmental toxicological Studies			3	1	0	15	10	25	75	100	04	✓	✓	✓						
3	B150803T/ ES421	Industrial hygiene and occupational health			3	1	0	15	10	25	75	100	04	✓	✓	✓			✓			 
4	B150804T/ ES422	Applied Bioremediation			3	1	0	15	10	25	75	100	04	✓	✓	✓						  
5	B150805T/ ES423	Climate change and resilience Studies	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓			✓	✓	✓	  
6	B150808R/ ES426	Internship/Apprenticeship (Research Project V)	NTCC	Industry/skill-based	0	0	0	00	00	00	00	100	04	✓	✓	✓			✓		✓	    
TOTAL					12	4	4	75	50	125	375	500	20									

Minor Elective offered by Department of EVS to all : B150806T/ ES424: Hydrology and Water Resources (04-Credit)

B150807T/ ES425: Environmental Ethics (04-Credit)



S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)	
					Lecture (L.)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total			End Semester Examination	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics
Specialized Elective			Theory	Compulsory	3	1	0	15	10	25	75	100	04	✓	✓			✓			  
1	B150901T/ ES01	Biodiversity Monitoring and Modelling			3	1	0	15	10	25	75	100	04	✓	✓	✓					
2	B150902T/ ES02	Energy Management and Disruptive Technologies			3	1	0	15	10	25	75	100	04	✓	✓	✓					 
3	B150903T/ ES03	Clean Development Mechanism & CSR			3	1	0	15	10	25	75	100	04	✓	✓	✓			✓		  
4	B150904T/ ES04	Policy Responses to Global Climate Change			3	1	0	15	10	25	75	100	04	✓	✓	✓					  
5	B150905R/ ES05	Internship/Apprenticeship (Research Project VI)	NTCC	Industry/skill-based	0	0	0	00	00	00	00	100	04	✓	✓	✓		✓		✓  	
TOTAL					12	4	4	75	50	125	375	500	20								



M.Sc. in Environmental Science

Year: Fifth / Semester: Tenth (Even Semester)

M.Sc. in Environmental Science													Year: First Semester: Fifth (Even Semester)									
S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)	
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
Specialized Elective (Any four)			Theory	Compulsory	3	1	0	15	10	25	75	100	04	✓	✓			✓			  	
1	B1501001T/ ES506	Environmental Ethics and IPR			3	1	0	15	10	25	75	100	04	✓	✓	✓						
2	B1501002T/ ES507	Green Technology & Entrepreneurship			3	1	0	15	10	25	75	100	04	✓	✓	✓					 	
3	B1501003T/ ES508	Environmental Health Risk Assessment			3	1	0	15	10	25	75	100	04	✓	✓	✓		✓			  	
4	B1501004T/ ES509	Industrial Pollution Control & Environmental audit	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓					  	
5	B1501005T/ ES510	Internship/Apprenticeship (Research Project VII)	NTCC	Industry/skill-based	0	0	0	00	00	00	00	100	04	✓	✓	✓		✓		✓	    	
TOTAL					12	4	4	75	50	125	375	500	20									