

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		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 &	Human Value			
Major 1																				
1	B150101T/ES125	Basics of Environmental Science	Theory	Major 1	4	0	2	15	10	25	75	100	06	✓	✓			 		
	B150102P/ES126	Practical on Environment			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			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			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		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
w.e.f. Session 2024-25

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	
Major 1																				
1	B150201T/ES133	Environmental Biology	Theory	Major 1	4	0	2	15	10	25	75	100	06	✓	✓	14 LIFE BELOW WATER	15 LIFE ON LAND	15 LIFE ON LAND		
	B150202P/ES134	Practical on Environmental Biology	Practical					15	10	25	75	100		✓	✓	✓	✓	✓		
2	B150203T/ES135	Eco-Restoration and Invaded Ecosystems	Theory		4	0	2	15	10	25	75	100	06	✓	✓	✓	✓	✓		
	B150204P/ES136	Ecosystem Dynamic Lab	Practical					15	10	25	75	100		✓	✓	✓	✓	✓		
Multi-Disciplinary																				
3	B190103T/CH135	Water Treatment and Analysis	Theory	Anyone	4	0	2	15	10	25	75	100	06	✓	✓	✓	✓	✓	5 GENDER EQUALITY	
	B190104P/CH136	Water Quality Analysis	Practical					15	10	25	75	100		✓	✓	✓	✓	✓		
4	B150205T/ES137	Natural Resources and its Management	Theory		4	0	2	15	10	25	75	100		✓	✓	✓	✓	✓		
	B150206P/ES138	Natural Resources Lab	Practical					15	10	25	75	100		✓	✓	✓	✓	✓		
5	A070201T/SS108	Society in India: Structure Organization and Change	Theory	Vocational Course	6	0	0	15	10	25	75	100	06	✓	✓	✓	✓	✓	4 QUALITY EDUCATION	
6	MOOC/SWAYAM		Theory					0	0	0	0	0		✓	✓	✓	✓	✓		
7	I150208T/ES140	Ecotourism and Wildlife Management	Theory	Co-curricular (Compulsory)	3	0	0	-	-	-	-	100	03	✓	✓	✓	✓	✓	3 GOOD HEALTH AND WELL BEING	
8	Z020201T/NS110	First Aid and Health	Theory					2	0	0	15	10		✓	✓	✓	✓	✓		
9	B150207T/ ES139	AI for Earth and Environmental Sciences	Theory	Audit course	0	0	0	0	0	0	0	0	02	✓	✓	✓	✓	✓	4 QUALITY EDUCATION	
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				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	
		Major 1																	
1	B150301T/ES218	Biodiversity and its Conservation	Theory	Major 1	4	0	2	15	10	25	75	100	06	✓	✓	✓	✓	✓	14 LIFE BELOW WATER
	B150302P/ES219	Practical on understanding Biodiversity	Practical					15	10	25	75	100							
2	B150303T /ES220	Human-Wildlife Conflict and Management	Theory		4	0	2	15	10	25	75	100	06	✓	✓	✓	✓	✓	15 LIFE ON LAND
	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	✓	✓	✓	✓	13 CLEAN WATER AND SANITATION 12 AFFORDABLE AND INCLUSIVE ENERGY 11 INDUSTRY, INNOVATION AND INFRASTRUCTURE 10 REDUCED INEQUALITIES 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 8 RESPONSIBLE CONSUMPTION AND PRODUCTION 7 CLIMATE ACTION 6 LIFE ON LAND 5 LIFE BELOW WATER 4 QUALITY EDUCATION
4	I150308T/ ES226	Environment and Sustainability	Theory					-	-	-	-	-							
5		MOOC/SWAYAM	Theory		0	0	0	0	0	0	0	0							
6		**Regional Languages	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓	✓	✓	3 GOOD HEALTH AND WELL-BEING
TOTAL					12	1	4	75	50	125	375	600	17						

Department of Environmental Science

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

Year: Second / Semester: Fourth (Even Semester)
Diploma in Environmental Science

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)				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability			
Major 1																				
1	B150401T/ES227	Environmental Pollution & Management	Theory	Major 1	4	0	2	15	10	25	75	100	06	✓	✓	✓	✓			
	B150402P/ES228	Practical on Environmental Pollution						15	10	25	75	100								
2	B150403T/ES229	Basics of Environmental Methods and Analytical Techniques	Theory	(anyone)	4	0	2	15	10	25	75	100	06	✓	✓	✓	✓			
	B150404P/ ES230	Analytical Techniques Lab						15	10	25	75	100								
Multidisciplinary																				
3	A070401T/SS211	Social Problems & Issues of Development in India	Theory	(anyone)	4	0	2	15	10	25	75	100	06	✓	✓	✓	✓			
	A070402R/SS212	Projects on Sustainable Society						15	10	25	75	100								
4	B150405T/ES231	Soil Conservation and its Management	Theory	(anyone)	4	0	2	15	10	25	75	100	06	✓	✓	✓	✓			
	B150406P/ES232	Soil Analysis Lab						15	10	25	75	100								
5	B190403T/CH242	Industrial Waste Treatment & Management	Theory	(anyone)	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)

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) in Environmental Science

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
Major 1																			
1	B150501T/ ES314	Environmental Microbiology and Biotechnology	Theory	Major 1 (Anyone 4)	4	0	1	15	10	25	75	100	05	✓	✓	✓	✓	✓	 
	B150502P/ ES315	Environmental Microbiology Lab	Practical					15	10	25	75	100							
2	B150503T/ ES316	Introduction to Physical Environment	Theory		5	0	0	15	10	25	75	100	05	✓	✓	✓	✓	✓	  
3	B150504T/ ES317	Pollution and Human Health	Theory		5	0	0	15	10	25	75	100	05	✓	✓	✓	✓	✓	
4	B150505T/ ES318	Energy and its Management	Theory		4	0	1	15	10	25	75	100	05	✓	✓	✓	✓	✓	 
	B150506P/ ES319	Energy Lab	Practical					15	10	25	75	100							
5	B150507T/ ES320	Earth & Environmental Processes	Theory		4	0	2	15	10	25	75	100	05	✓	✓	✓	✓	✓	
	B150508P/ ES321	Earth and Environment lab	Practical					15	10	25	75	100							
6	B150509R/ ES322	Internship/Apprenticeship (Research Project II)	NTCC	Industry based	0	0	0	00	00	00	00	100	05	✓	✓	✓	✓	✓	
TOTAL					13	0	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) in Environmental Science

Year: Third / Semester: Sixth (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)				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	
Major 1																		
1	B150601T/ ES323	Environmental Legislation and Impact Assessment	Theory	Major 1 (anyone 4)	4	0	1	15	10	25	75	100	05	✓	✓		✓	 
	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		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						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	
Specialized Elective																				
1	B150701T/ ES413	Atmospheric Sciences and Global Climate Change	Theory	Compulsory	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			Subject Total	Total Credit Points	Attributes						United Nations Sustainable Development Goals (SDGs)
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)			Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	
Specialized Elective																		
1	B150801T/ ES419	Marine and Coastal Science	Theory	Compulsory	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**

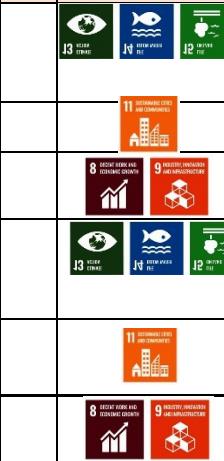
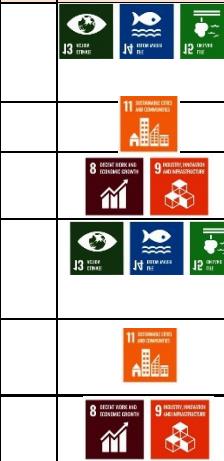
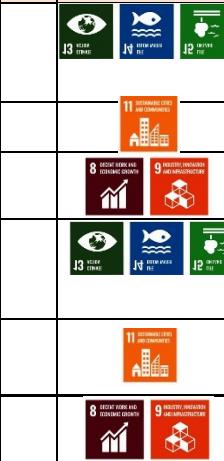
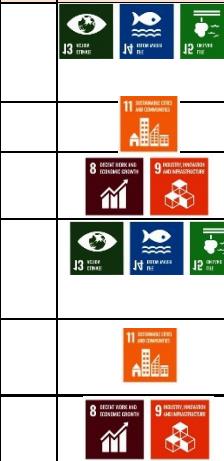
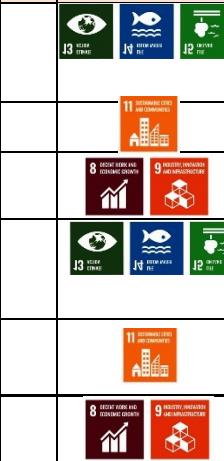
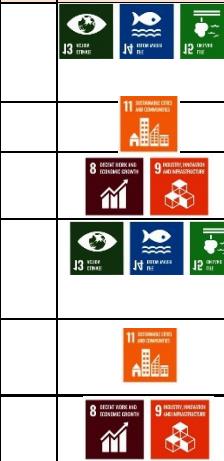
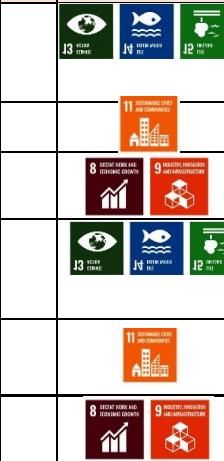
Minor Elective offered by Department of EVS to all: B150806T/ ES424: Hydrology and Water Resources (04-Credit)

B150807T/ ES425: Environmental Ethics (04- Credit)

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					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	
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	
Specialized Elective (Any four)																			
1	B150801T/ ES419	Marine and Coastal Science	Theory	Specialized Elective (Any four)	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	✓	✓	✓	✓	✓	
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)



Department of Environmental Science

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

M.Sc. in Environmental Science

Year: Fifth / Semester: Ninth (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				Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
		Specialized Elective																		
1	B150901T/ ES501	Biodiversity Monitoring and Modelling	Theory	Compulsory	3	1	0	15	10	25	75	100	04	✓	✓		✓			
2	B150902T/ ES502	Energy Management and Disruptive Technologies	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓				
3	B150903T/ ES503	Clean Development Mechanism & CSR	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓	✓			
4	B150904T/ ES504	Policy Responses to Global Climate Change	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓				
5	B150905R/ ES505	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							



Department of Environmental Science

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

M.Sc. in Environmental Science

Year: Fifth / Semester: Tenth (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)				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	
		Specialized Elective (Any four)																
1	B1501001T/ES506	Environmental Ethics and IPR	Theory	Compulsory	3	1	0	15	10	25	75	100	04	✓	✓		✓	
2	B1501002T/ES507	Green Technology & Entrepreneurship	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓		
3	B1501003T/ES508	Environmental Health Risk Assessment	Theory		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					