

B.Sc. Environmental Science

- As per National Education Policy 2020, Department of Environmental Studies will now offer B.Sc. program of 4-year duration with multiple entry and exit points as well as reentry options.
- The courses offered at UG program will incorporate Multidisciplinary courses, Ability Enhancement courses, Skills Enhancement courses, and Value-added courses.
- Maximum duration for completing 4-year B.Sc. program offered will be 7 years.
- A student who has opted to exit before the successful completion of a B.Sc. program will have an option to re-enter the program within three years and complete the program within the stipulated maximum period for the program.
- A student can avail Re-entry option only once during the tenure of the program.

- **Certificate in Environmental Science**: Students who opt to exit after completion of the first year and have secured required credits will be awarded the **Certificate in Environmental Science**.
- **Diploma in Environmental Science**: Students who opt to exit after completion of the second year will be awarded the **Diploma in Environmental Science**.
- **Bachelor of Science**: Students who opt to exit after completion of the third year will be awarded the **Bachelor of Science in Environmental Science**.
- **Bachelor of Science (Honors with Research)**: Students of 4-year B.Sc. program who successfully complete 4 years, with a rigorous research project/ dissertation will be awarded the **Bachelor of Science (Honors with research) in the Environmental Science**.

B.Sc. Environmental Science

Proposed Syllabus to be implemented from AY 2023-24

FS BSC I (Major/Minor)

ID	Title	Credits
	Principal	
ENV1101PT	Fundamental of environmental science	04
ENV1102PT	Basics of environmental analytical techniques	04
	Total	08
	Minor 1	
ENV1101MT	Environmental chemistry	02
ENV1102MT	Environmental physics	02
ENV1103MT	Environmental Biology	02
ENV1104MT	Communication skills	02
	Total	08
	Minor 2	
ENV1101MTL	Basics of Environmental analysis – laboratory -P	04
ENV1102MTL	Basics of Environmental monitoring – field – F	04
	Total	08

SS BSC I (Major/Minor)

ID	Title	Credits
ENV1201PT	Natural resources management	04
ENV1201PT	Fundamentals of ecology	04
	Total	08
	Minor 1	
ENV1201MT	Green environment	02
ENV1202MT	Environmental data management	02
ENV1203MT	Earth science	02
ENV1204MT	Atmospheric science	02
	Total	08
	Minor 2	
ENV1201MTL	Field ecology techniques – p	04
ENV1202MTL	Environmental data management – p	04
	Total	08

FS BSC II

ID	Title	Credits
ENV1301PT	Environmental Pollution	04
ENV1302PT	Pollution Management	04
ENV1303PL	Environmental pollution assessment – P	04
	Total	12
	Minor	
ENV1301MDC	Computer application	4
ENV1302MDC	Environmental statistics	2
	Total	6
	AEC	
ENV1301AEC	Field visit – pollution management	2
	Total	2
	VAC	
ENV1301VAC	Microbial Ecology	2
	Total	2

SS BSC II

ID	Title	Credits
ENV1401PT	Environmental Biotechnology and Microbiology	04
ENV1402PT	Advanced analytical techniques, remote sensing and GIS	04
ENV1403PL	Environmental Biotechnology and Microbiology Lab – p	04
	Total	12
	MDC	
ENV1401MDC	Sustainable Development and Climate Change	2
ENV1402MDL	Advanced analytical techniques, remote sensing and GIS – P	4
	Total	6
	AEC	
ENV1401AEC	Environmental Advocacy and Public Speaking –P	2
	Total	2
	VAC	
ENV1401VAC	Sustainable agriculture	2
	Total	2

FS BSC III

ID	Title	Credits
ENV1501PT	Solid and hazardous waste management	04
ENV1502PT	Liquid waste management – p	04
ENV1503PL	Solid waste management – p	04
ENV15XXEL	Elective1	04
ENV15XXEL	Elective 2	04
	SEC	
ENV1501SEC	Coding and Programming	02
	Total	22

Elective-I and Elective-II are to be selected from the following List

Applications of Remote Sensing and GIS Lab (4)

Disaster Risk Assessment Lab (4)

Applied Ecology Lab

Environmental Biotechnology Lab

Integrated waste management Lab

Environmental geoscience Lab

SS BSC III

ID	Title	Credits
ENV1601PT	Biodiversity conservation	04
ENV1602PT	Environment and public health	04
ENV1603PT	Landscape and urban planning	04
ENV16XXEL	Elective3	04
ENV16XXEL	Elective 4	04
	SEC	
ENV1601SEC	Data presentation	02
	Total	22

Elective-III to Elective-IV are to be selected from the following List

Applications of Remote Sensing and GIS Lab (4)

Disaster Risk Assessment Lab (4)

Applied Ecology Lab (4)

Environmental Biotechnology Lab (4)

Integrated waste management Lab (4)

Environmental geoscience – lab (4)

FS BSC IV

ID	Title	Credits
ENV1701PT	Environmental legislation and Environmental Management System	04
ENV1702PL	Research Methodology and Scientific Communication	04
ENV1703PT	Environmental Health, Safety and Disaster Management	04
ENV1704PL	Demography, Environmental Economics and Natural Resource Management	04
ENV1705PL	Statistical and computational analysis and documentation Lab	04
ENV1706PL	Environmental Impact Assessment and Auditing Lab	04
ENV1707PF	Field Visit	02
	Total	26

SS BSC IV

ID	Title	Credits
ENV1801PF	Field Visit	02
EMV1802CV	Comprehensive viva	04
ENV 18XXPR	Dissertation proposal	02
ENV18XXPR	Project/ Internship/ Dissertation	12
ENV18XXPR	Dissertation defence	
	Total	22