Maulana Abul Kalam Azad University of Technology, WB
(Formerly known as West Bengal University of Technology)
Syllabus of B.Sc in Environmental Science
Effective from academic session 2023-24

Graduate Attributes

Graduate attributes are the qualities, skills, and knowledge that a student is expected to have acquired upon completing a specific degree program. In the context of a Bachelor of Science (B.Sc) in Environmental Science (EVS), the graduate attributes would encompass a range of competencies related to environmental science and sustainability. These attributes generally reflect the program's educational goals and the skills required for a successful career in the field. Here are some common graduate attributes for a B.Sc in Environmental Science:

1. **Environmental Knowledge:** Graduates should have a solid understanding of key concepts, principles, and theories related to environmental science, including ecology, biodiversity, conservation, climate change, pollution, and sustainability.
2. **Critical Thinking:** Graduates should be able to analyze complex environmental issues, evaluate evidence, and make informed decisions. They should be capable of critically assessing the impacts of human activities on the environment and proposing effective solutions.
3. **Research Skills:** Graduates should be equipped with research methodologies used in environmental science, including data collection, analysis, interpretation, and presentation. They should be able to design and conduct research projects related to environmental issues.
4. **Interdisciplinary Approach:** Environmental science is inherently interdisciplinary. Graduates should be skilled at integrating knowledge from various fields, such as biology, chemistry, geology, and social sciences, to understand and address complex environmental challenges.
5. **Sustainability Awareness:** Graduates should possess a strong awareness of sustainability principles and their application in various contexts, such as resource management, urban planning, and policy development.
6. **Communication Skills:** Effective communication is crucial for conveying complex environmental concepts to different audiences. Graduates should be able to communicate scientific information clearly, both in writing and through oral presentations.
7. **Problem-Solving:** Graduates should be adept at identifying and solving environmental problems. This includes designing and implementing strategies to mitigate environmental impacts and adapt to changing conditions.
8. **Ethical Considerations:** An understanding of ethical issues related to environmental decision-making and the responsible use of natural resources is important for graduates. This includes considerations of environmental justice, equity, and the well-being of future generations.

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CURRICULUM STRUCTURE

Semester 1

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BENVS 101	EARTH & ENVIRONMENTAL SYSTEM	3	2	0	5
2.		BENVS 102	ENVIRONMENTAL RESOURCES AND ENERGY SCIENCE	3	2	0	5
3.	DSE	MIM101	Principle of Management	2	1	0	3
4.	GE		GE- Anyone from the GE Basket A/D	3	-	0	3
5.	AECC	AECC101	English & professional communication	2		0	2
6.	SEC	SEC181	Life skills & personality development	2		0	2
7.	VAC	VAC181A/ B/C	Yoga Health & wellness Sports	2		0	2
Total Credit							22

Semester 2

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BENVS 201	PHYSICS & CHEMISTRY OF ENVIRONMENT	3	-	2	5
2.		BENVS 202	ENVIRONMENTAL SUSTAINIBILITY CONCEPT AND CONCERN	3	2	0	5
3.	DSE	MIM201	Organization Behavior	2	1	0	3
4.	GE		GE- Anyone from the GE Basket B/E	3	-	0	3
5.	AECC	AECC201	Modern Indian Languages and Literature	2		0	2
6.	SEC	SEC201	IT Skills	2		0	2
7.	VAC	VAC281A/ B/C/D	Critical Thinking NSS Mental Health	2		0	2
Total Credit							22

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Semester 3

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BENVS 301	ENVIRONMENTAL BIOLOGY	3	-	2	5
2.		BENVS 302	ENVIRONMENTAL POLLUTION & CONTROL	3	2	0	5
3.	DSE	MIM301	Principles of Marketing	3	1	0	4
4.	GE		GE- Anyone from the GE Basket	3	-	0	3
5.	AECC	AECC 301	The Constitution, Human Rights & Law	2		0	2
6.	SEC	SEC 301	Understanding & Connecting with Environment	2		0	2
Total Credit							21

Semester 4

Subject Type	Code	Subject Name	Credits			Total Credits
			L	T	P	
DSC	BENVS 401	ALTERATION OF ATMOSPHERE AND CLIMATE	3	1	0	4
	BENVS 402	BIODIVERSITY & CONSERVATION BIOLOGY	3	2	0	5
	BENVS 403	WASTE MANAGEMENT	3	0	1	4
DSE	MIM401	Human Resource Management	4	-	0	4
	MIM402	E-Commerce	4	-	0	4
AECC	AECC 401	Society, Culture & Human Behaviour	2	-	0	2
Total Credit						**23**

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Semester 5

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BENVS 501	ECOLOGY & ECOSYSTEM	3	-	2	5
2.		BENVS 502	ENVIRONMENTAL BIOTECHNOLOGY	3	-	2	5
3.	DSE	MIM501	Financial Management	4	-	0	4
		MIM502	Entrepreneurship	4	-	0	4
5.	SEC	SEC581	Internship	4	-	0	4
Total Credit							22

Semester 6

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BENVS 601	ECOTOXICOLOGY & ENVIRONMENTAL STUDIES	3	2	0	5
2.		BENVS 602	ENVIRONMENTAL ENGINEERING & POLLUTION CONTROL MEASURES	3	-	1	4
3.		BENVS 603	ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT	3	2	0	5
4.	DSE	MIM601	Customer relationship management	4	-	0	4
5.		MIM602	Career planning and management	4	-	0	4
Total Credit							22

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Semester 7

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BENVS 701	NATURAL HAZARDS AND DISASTER MANAGEMENT	3	2	0	5
2.		BENVS 702	ENVIRONMENTAL LEGISLATION & POLICY	3	1	0	4
3.		BENVS 703	Research Methodology	3	2		5
4.	DSE	MIM701	Consumer Behavior	4	-	0	4
5.		MIM702	Strategic Management	4	-	0	4
Total Credit							22

Semester 8

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BENVS 801	ENVIRONMENTAL STATISTICS & ECONOMICS	3	1	0	5
2.		BENVS 802	ORGANISMAL & EVOLUTIONARY BIOLOGY	3	1	0	5
3.	SEC	SEC881	Research Project	12	-	-	12
Total Credit							22