

Skill Enhancement Courses offered by Department of Forestry Wildlife and Environmental Sciences

Sl. No.	Course	Course Code	Name of the course	Credit	Hour/ week	Marks
I	SEC-01	UFOASCT1	Nursery Technology	2	4	100
	SEC-01 (Practical)	UFOASCP1	Nursery Technology	1		100
II	SEC-02	UFOBSCT1	Wildlife Biology	2	4	100
	SEC-02 (Practical)	UFOBSCP1	Wildlife Biology	1		100
III	SEC-03	UFOCSCT1	Afforestation Techniques	2	4	100
	SEC-03 (Practical)	UFOCSCP1	Afforestation Techniques	1		100

Value Added Courses offered by Department of Forestry Wildlife and Environmental Sciences

Semester	Course	Course Code	Name of the course	Credit	Hour/ week	Marks
I/II	VAC-01	UFOVACT1	Environmental Education	2	2	100

As per university instruction environmental education subject will be taught to the different student of the university.

MOOC Course offered by the different online platform.

Semester	Course	Course Code	Name of the course	Credit	Hour/ week	Marks
VII	MOOC	UFOGMOC1	Wildlife and its Conservation /MOOC	4	4	100

As per university instruction online/offline MOOC subject will be taught to the student if not available on online platform.

Graduates Attributes

Graduates Attributes (GAs) are measurable outcomes that signify the capabilities and potentials of the graduate to attain accomplishment and perform in adequate manner at appropriate situations. Following are the Graduate Attributes of B. Sc. Forestry which are given as below:

PO1. Acquaintance with the subject knowledge: Gain in-depth knowledge and understandings of each discipline or professional area across boundaries of nations with an aptitude to identify, access, analyze and synthesize existing and new knowledge, and integrate them for enrichment of knowledge.

PO2. Analytical ability: ability to analyze and address multifaceted scientific issues to forestry, wildlife and environmental sciences; pertain and take independent decision for synchronizing information to formulate innovative and intellectual advances towards focused research over theoretical and different domains of forestry and allied sciences.

Shreshth
BL
 19/06/2025

VALUE ADDED COURSES

VAC-1: Environmental Education

Credit- 2

Sub Code	L	T	P	Duration	IA	ESE (T)	Total	Credits
FOUAVAT1	2	-		2 hours	30	70	100	2

Course objectives:

1. Develop a critical understanding of the environmental issues of concern
2. Understand the concept of natural resources; identify types of natural resources, their distribution and use with special reference to India.
3. Explain sustainable development, its goals, targets, challenges and global strategies for sustainable development.
4. To develop scientific, interpretive and creative thinking skills in the students about environment.
5. To explore the problems that we face in understanding our nature that correlate with socio-economical solution for sustainable development.

Unit I. Introduction to environmental studies, Humans and the Environment-

Multidisciplinary nature of environment, scope and importance, Man-environment interaction: Population growth and natural resource exploitation. Concept of sustainability and Sustainable Development Goals (SDGs).

Unit II- Natural Resources and Environment Pollution

Overview of natural resources: Classification of natural resources, Land resources, water resources, Energy resources; Environmental pollution types, causes, effects, controls; Solid waste management, 3R Principle.

Unit III- Biodiversity Conservation and environmental issues

Biological diversity concept; hot spots; Endangered and endemic species of India. Threats to biodiversity, man-wildlife conflicts; Conservation of biodiversity. Environmental issues at local, regional, and global scale.

Unit IV- Ecology & Ecosystems

Structure and function of ecosystem, Energy flow, food chains, food webs and ecological succession. Forest ecosystem, Grassland ecosystem, Desert ecosystem and Aquatic ecosystems

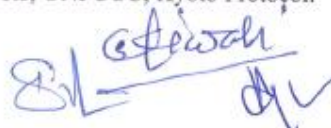
Unit V. Climate Change: Impacts, Adaptation and Mitigation

Understanding climate change: greenhouse gas emissions, global climate change, temperature, rainfall, net zero targets for the future; Energy efficiency measures.

Unit VI: Environment Management, Environmental Policies, Acts, treaties and regulations

Introduction to environmental laws and regulation, Constitutional provisions, The Air (Prevention and Control of Pollution) Act; The Environment (Protection) Act, 1986; International agreements: Montreal and Kyoto protocols; UNFCCC; Kyoto Protocol.

Unit VII: Human Communities and the Environment



19/06/2025

VALUE ADDED COURSES

VAC-1: Environmental Education

Credit- 2

Sub Code	L	T	P	Duration	IA	ESE (T)	Total	Credits
FOUAVAT1	2	-		2 hours	30	70	100	2

Course objectives:

1. Develop a critical understanding of the environmental issues of concern
2. Understand the concept of natural resources; identify types of natural resources, their distribution and use with special reference to India.
3. Explain sustainable development, its goals, targets, challenges and global strategies for sustainable development.
4. To develop scientific, interpretive and creative thinking skills in the students about environment.
5. To explore the problems that we face in understanding our nature that correlate with socio-economical solution for sustainable development.

Unit I. Introduction to environmental studies, Humans and the Environment-

Multidisciplinary nature of environment, scope and importance, Man-environment interaction: Population growth and natural resource exploitation. Concept of sustainability and Sustainable Development Goals (SDGs).

Unit II- Natural Resources and Environment Pollution

Overview of natural resources: Classification of natural resources, Land resources, water resources, Energy resources; Environmental pollution types, causes, effects, controls; Solid waste management, 3R Principle.

Unit III- Biodiversity Conservation and environmental issues

Biological diversity concept; hot spots; Endangered and endemic species of India. Threats to biodiversity, man-wildlife conflicts; Conservation of biodiversity. Environmental issues at local, regional, and global scale.

Unit IV- Ecology & Ecosystems

Structure and function of ecosystem, Energy flow, food chains, food webs and ecological succession. Forest ecosystem, Grassland ecosystem, Desert ecosystem and Aquatic ecosystems

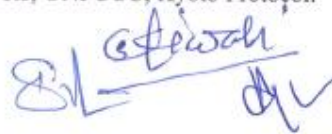
Unit V. Climate Change: Impacts, Adaptation and Mitigation

Understanding climate change: greenhouse gas emissions, global climate change, temperature, rainfall, net zero targets for the future; Energy efficiency measures.

Unit VI: Environment Management, Environmental Policies, Acts, treaties and regulations

Introduction to environmental laws and regulation, Constitutional provisions, The Air (Prevention and Control of Pollution) Act; The Environment (Protection) Act, 1986; International agreements: Montreal and Kyoto protocols; UNFCCC; Kyoto Protocol.

Unit VII: Human Communities and the Environment



19/06/2025