

Programme: M. Sc. (Zoology)

Course Code: ZOO-302

Number of Credits: 2

Effective from AY: 2018-19

Title of the Course: Biodiversity

<u>Prerequisites for the course:</u>	Should have studied B. Sc. Zoology with assumption that the student has a basic working knowledge of classical faunal biological diversity.	
<u>Objective:</u>	This course will help the learner to understand the concept and components of biodiversity, its importance, human population Vs biodiversity, wild life and its conservation, national and international efforts to protect and propagate biodiversity, Bioprospecting, IPR, biopiracy etc.,	
<u>Content:</u>	Module 1: Concepts and components of biodiversity, genetic, species and ecosystem diversity; Biodiversity as an important resource, human population growth and its implications on biodiversity, biodiversity indices, value of biodiversity. In-situ and ex-situ Conservation of biodiversity.	12 hours
	Module 2: Wildlife reserves in India, Earth summit and follow up action, Convention on biodiversity. Biodiversity hotspots in the world, national and global red data lists, Bioprospecting and conservation, IPR of biodiversity and its products, patent protection and biopiracy, biodiversity informatics, databases in biological materials. International efforts and issues of sustainability	12 hours
<u>Pedagogy:</u>	Lectures/ tutorials/assignments/self-study	
<u>References/Readings</u>	1. Belsare DK, Introduction to Biodiversity, A. P. H. Publishing Corp. New Delhi. 2. Groombridge B. Global Biodiversity: Status of Earth's Living Resources. Chapman and Hall Publ. London 3. Huston AM (1994), Biological diversity, Cambridge University Press, Cambridge Wilson, E O (1998), Biodiversity, National Academy Press, New York	
<u>Learning Outcomes</u>	1. Learner will understand the concept and components of biodiversity, its importance. 2. Realise the role of human population Vs biodiversity. 3. Will have sufficient knowledge on wild life and its conservation. 4. Will realise the national and international efforts to protect and propagate biodiversity, Bioprospecting, IPR, biopiracy etc.	