

Course code	Course Title	C	H	I	E	T
17U2BSM2	BIODIVERSITY	2	2	25	75	100

Unit I **6 Hrs**

Introduction, concepts, definition, scope and constraints of biodiversity; levels – genetic, species and ecosystem. Biodiversity resources – agro, marine and coastal.

Unit II **5 Hrs**

Wealth - Hotspots. Endemism. Endemic centers in Tamil Nadu. Endemic plants of Tamil Nadu.

Unit III **6 Hrs**

Causes for the loss of biodiversity. Threatening factors – climatic, anthropogenic; processes and rate of extinction. IUCN categories. Red data book.

Unit IV **6 Hrs**

Conservation – *In situ* – biosphere reserves, national parks and wildlife sanctuaries. Medicinal plant conservation areas (MPCAs). *Ex situ* – theme parks, botanical gardens and seed banks.

Unit V **7 Hrs**

Organizations – International level – WWF, UNESCO, CITES and CBD; National level – NBA and BMC. National biodiversity strategies and action plan (NBSAPs). Local biodiversity register.

REFERENCES

1. Jeffries, M. J., Biodiversity and Conservation, 1997. Routledge, New York.
2. Biodiversity booklet published by CPR (2004). Environmental Education Centre, Chennai.
3. MOEF (2004). Hand book of Forest Conservation Act, 1980. Guidelines and Clarifications. Ministry of Environment and Forest, Govt. of India, New Delhi.
4. Krishnamurthy, K. V., An advanced text book on Biodiversity, 2009, Principles and Practices, Oxford & IBH Publication Pvt. Ltd., New Delhi.
5. Sharma, P. D., Ecology and Environment, 2009, Rastogi Publication, New Delhi.
6. WWW. IUCN. ORG.