

**Certificate Course Syllabus****Credit Based and Grading System**
to be implemented from the Academic year 2018-2019

Course	Title	Credits	L/Week
	Basic Field Biology	02	1 (Total 30 hrs – 16hrs lectures + 14 hrs Field visits)

Basic Field Biology

Course	Title	Credits	L/Week
	1. Understanding the Field <ul style="list-style-type: none"> ▪ Various habitats and ecosystems ▪ Components of Ecosystem ▪ Food web and Food chain ▪ Animal Interactions ▪ Rules of the Field [Do's and Don't's] 	02	1 (Total 30 hrs – 16 hrs lectures + 14 hrs Field visits)
	2. Terrestrial Habitat <ul style="list-style-type: none"> ▪ Types of Terrestrial habitats ▪ Zoogeography ▪ Introduction to Taxonomy ▪ Study of Flora[basic anatomy, classification, key to identification] ▪ Study of Fauna [basic anatomy, classification, key to identification] 		



	3. Aquatic habitat <ul style="list-style-type: none">Types of Aquatic habitatsZonation of the SeaShore [types, organisms found, key to identification]Intertidal Zone [organisms found, key to identification]		
	4. Documentation of Fieldwork <ul style="list-style-type: none">Tools of the FieldGadgets like Binocs, Monocs, CameraField guides [how to use]Monitoring devices -hygrometer, pH meter, thermometer, Balance etcField KitField Data Collection TechniquesManualDigital CameraTraps & types of trapsField data Analysis TechniquesSampling MethodsData entry techniquesGIS and new digital software 5 . Field work <ul style="list-style-type: none">TrailsBird walksShore walksInsect / butterfly walksVisits		



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References (recommended books)

- Odum, E. P., & Barrett, G. W. (2005). Fundamentals of Ecology. 5th ed. Belmont, CA: Thomson Brooks/Cole.
- Ali, Salim and Laeeq Futehally. 1967. Common Birds. 1st ed. New Delhi: National Book Trust. Hbk
- Isaac David Kehimkar. 2008. The Book of Indian Butterflies , Bombay Natural History Society; Tata Social Welfare Trust.
- Deepak Apte. 2014. Sea Shells of India, New Delhi : Oxford University Press



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