K. J. SOMAIYA COLLEGE OF SCIENCE AND COMMERCE, AUTONOMOUS	
Certificate course in Basic Field Biology	
Course Details	
Department of Zoology	
2019-2020	

This document contains the structure of course, details of syllabus and evaluation pattern.

Course Details

Course type : Certificate

❖ Course Title : Certificate Course in basic field biology

Objectives of course :

- 1. To inculcate fascination for the outdoor in the minds of the student
- 2. To deliver expert knowledge about the field
- 3. To give hands-on experience of various ecosystems
- 4. To help the student understand identification of various flora and fauna
- 5. To prepare the student for an advanced course in Field Biology

! Learning Outcomes:

- 1. Student will learn how to behave on the field, thereby creating awareness and compassion for the environment
- 2. Student will inculcate basic identification skills
- 3. Student will know how to read and comprehend a field guide
- 4. Student will develop intrigue and respect for the field and its component flora and fauna
- ❖ Prerequisites / Eligibility Criteria : SY pass outs from any stream

❖ Intake Capacity : 20

❖ Duration : 12 weeks

Course Coordinator : Name : Dr. Amol Patwardhan

Sadaf Zakariya

❖ Syllabus :

MODUL	Е	CONTENT	CONTACT
			HOURS
I)	Understanding	Various habitats and ecosystems	04
	the Field	Components of Ecosystem	
		Food web and Food chain	
		Animal Interactions	
		Rules of the Field [Do's and Don't's]	
II)	Terrestrial	 Types of Terrestrial habitats 	04
	Habitat	 Zoogeography 	

	 Introduction to Taxonomy Study of Flora[basic anatomy, classification, key to identification] Study of Fauna [basic anatomy, classification, key to identification] 	
III) Aquatic habitat	 Types of Aquatic habitats Zonation of the Sea Shore [types, organisms found, key to identification] Intertidal Zone [organisms found, key to identification] 	04
IV) Documentation of Fieldwork	Tools of the Field – Gadgets like Binocs, Monocs, Camera Field guides [how to use] Monitoring devices-hygrometer, pH meter, thermometer, Balance etc Field Kit Field Data Collection Techniques Manual Digital Camera traps, light traps Field data Analysis Techniques Sampling Methods Data entry techniques GIS and new digital software	04
FIELD WORK	 Trails Bird walks Shore walks Insect / butterfly walks Visits 	14

& Evaluation Pattern: Assignments

Viva

Report of visits

❖ Reference Books : Ecology − Odum

Field guide in Ornithology – Salim Ali, Grimmet Field guide in Entomology – Issac Kehimkar Field guide in marine Zoology- Deepak Apte