

Name of the Programme: M.Sc. Marine Biotechnology

Course Code: MBT-601

Title of the Course: Field trip

Number of Credits: 02

Effective from AY: 2022-23

Pre-requisites for the Course:	Theoretical and practical knowledge of Marine Microbiology, Marine pathogenesis, Oceanography and Aquaculture	
Course Objectives:	The primary objectives of the group learning are as follows: 1. To provide first-hand experience, 2. To stimulate interest and motivation in science, 3. To add relevance to learning and inter-relationships, 4. To provide a potential impact to students' cognitive skills, knowledge, interests, and future career.	
Content:	<ul style="list-style-type: none">• Visit to any Central Scientific Research and Development institute or Science laboratory (including those carrying out marine related research: National Institute of Oceanography or ICAR-Fisheries Department or TERI).	No of hours 8
	<ul style="list-style-type: none">• Visit to a pharmaceutical industry to learn about industrial manufacturing processes.	8
	<ul style="list-style-type: none">• Visit to 3-4 Biotechnology industrial unit such as beverage production unit, dairy industry, fish processing unit, food processing unit, waste processing unit, etc.	10
	<ul style="list-style-type: none">• Visit to 1-2 fish or shrimp or mussel or crab culture farm/ Fish breeding unit/ Ornamental fish hatchery/ Small-scale aquaponics systems. Boat cruise and sample collection techniques	20
	<ul style="list-style-type: none">• Preparation of report, Group discussion and individual presentation	14
Pedagogy:	Field visit,	
Course Outcomes:	At the end of this course, the students will be able to: 1. connect between the field trip learning with prior experiences and knowledge from the classroom. 2. sharpen their skills of observation and perception. 3. understand experiential learning discussed during field trips. 4. Appreciate the art of commercial fish culture methods and get motivated to become entrepreneurs	