



SATHYABAMA

**INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
ACCREDITED WITH "A" GRADE BY NAAC
APPROVED BY AICTE**

SCHOOL OF BIO AND CHEMICAL ENGINEERING

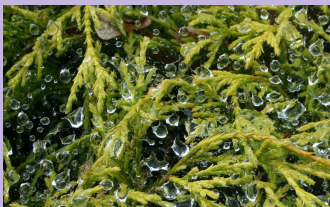
DEPARTMENT OF BIOTECHNOLOGY

Organizes value added course on

BIO ENTREPRENEURSHIP

DATE: 01-03-2021 to 17-03-2021 (15 working Days)

TIME: 3.00 PM TO 5.00 PM



RESOURCE PERSONS

**DR. KARTHIK KUMAR,
ASSISTANT PROFESSOR,
KAMRAJAR COLLEGE OF
ENGINEERING
COLLEGE, VIRUDHUNAGAR.**

**DR. STANLEY ABRAHAM,
CENTRE FOR OCEAN RESEARCH,
SATHYABAMA INSTITUTE OF
SCIENCE AND TECHNOLOGY.**

**DR. PRABAVATHY,
ASSISTANT PROFESSOR,
DEPARTMENT OF BIOTECHNOLOGY,
SATYABHAMA INSTITUTE OF
SCIENCE AND TECHNOLOGY**

***ELIGIBLE STUDENTS - BIOTECHNOLOGY,
BIOMEDICAL, BIOINFORMATICS
AND CHEMICAL ENGINEERING***

VENUE: DEPARTMENT OF BIOTECHNOLOGY

Attendance is mandatory for all classes

ORGANIZER

**Dr. Inbathamizh L
Assistant Professor
Department of Biotechnology**

FOR REGISTRATION CONTACT: Dr. PRAKASH P - 9840522688



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OBJECTIVES

- Spirulina cultivation and it's upscaling through economically feasible protocols.
- Identify the factors in the selection of a suitable site for Eucheuma farming and conduct test planting.
- the objective is to compost organic wastes, not for the disposal of solid organic wastes.

COURSE CONTENT

TOTAL : 30 HRS

Module 1: Spirulina Cultivation:

10 Hrs

Growing Conditions of Spirulina, Spirulina Cultivation, and Production, Harvesting of Spirulina, Cost, and Profits in Spirulina Farming.

Module 2: Seaweed cultivation:

10 Hrs

Site selection, installation of test plants, preparation of the farm site, construction of Echeuma farm, management of Eucheuma farm, harvesting, drying, maintenance of the farm.

Module 3: Vermicomposting:

10 Hrs

Introduction, Materials for the preparation of Vermicompost, Vermicompost Production Methodology, Advantages of vermicompost, Pests, and Diseases of vermicompost

OUTCOMES

- The course will be an attempt to train the interested Students for all aspects of Spirulina, Seaweed, Vermicomposting at small and large scale upscaling, harvesting, drying, and processing.
- Source of income generation either independently or through integrating with progressive farmers and established entrepreneurs.



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DATE	TIME	TOPIC	HANDLED BY
01-03-2021	3.00 TO 5.00 PM	INTRODUCTION TO SPIRULINA	DR.KARTHIKKUMAR (INVITED SPEAKER)
02-03-2021	3.00 TO 5.00 PM	INOCULUM DEVELOPMENT	DR.KARTHIKKUMAR (INVITED SPEAKER)
03-03-2021	3.00 TO 5.00 PM	CONSTRUCTION OF SPIRULINA TANK	DR.KARTHIKKUMAR (INVITED SPEAKER)
04-03-2021	3.00 TO 5.00 PM	MEDIUM PREPARATION	DR.KARTHIKKUMAR (INVITED SPEAKER)
05-03-2021	3.00 TO 5.00 PM	COST PROFIT ANALYSIS	DR.KARTHIKKUMAR (INVITED SPEAKER)
06-03-2021	3.00 TO 5.00 PM	INTRODUCTION TO SEAWEEDS	DR.STANLEY ABRAHAM
08-03-2021	3.00 TO 5.00 PM	SITE SELECTION	DR.STANLEY ABRAHAM
09-03-2021	3.00 TO 5.00 PM	CONSTRUCTION OF ECHEUMA FARM	DR.STANLEY ABRAHAM
10-03-2021	3.00 TO 5.00 PM	HARVESTING, PRETREATMENT	DR.STANLEY ABRAHAM
11-03-2021	3.00 TO 5.00 PM	MAINTENANCE OF SEAWEED FARM	DR.STANLEY ABRAHAM
12-03-2021	3.00 TO 5.00 PM	INTRODUCTION TO VERMICOMPOST	DR.PRABAVATHY
13-03-2021	3.00 TO 5.00 PM	SELECTION OF SUBSTRATES AND CONSTRUCTION OF TANK	DR.PRABAVATHY
15-03-2021	3.00 TO 5.00 PM	PRODUCTION PROCESS	DR.PRABAVATHY
16-03-2021	3.00 TO 5.00 PM	MAINTENANCE OF VERMICOMPOST FARM	DR.PRABAVATHY
17-03-2021	3.00 TO 5.00 PM	DISEASE MANAGEMENT OF VERMICOMPOST	DR.PRABAVATHY



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CERTIFICATE OF PARTICIPATION

This is to certify that, Mr./Ms./Mrs. *Yamuna D.*, a Btech Biotechnology Student of Sathyabama Institute of Science and Technology, has successfully completed value added course on *BIO ENTREPRENEURSHIP* organized by the Department of Biotechnology, Sathyabama Institute of Science and Technology from 01/03/2021 to 17/03/2021

DR. RAMESH KUMAR,
HEAD OF THE DEPARTMENT
DEPARTMENT OF BIOTECHNOLOGY
SATHYABAMA INSTITUTE OF
SCIENCE AND TECHNOLOGY

DR. INBATHAMIZH
ASSOCIATE PROFESSOR,
DEPARTMENT OF BIOINFORMATICS
AND DATA SCIENCE,
SATHYABAMA INSTITUTE OF
SCIENCE AND TECHNOLOGY.

DR. STANLEY ABRAHAM,
SCIENTIST,
OCEAN RESEARCH CENTRE,
SATHYABAMA INSTITUTE OF
SCIENCE AND TECHNOLOGY