

ANDHRA CHRISTIAN COLLEGE, GUNTUR.

DEPARTMENT OF BOTANY.

Certificate course in Biofertilizers 2022 - 23

NOTICE

Date: 11/11/2022

The Department of Botany and Microbiology is conducting Certificate course in Biofertilizers with the duration of 30 days. Hence, 1st year CBZ students are hereby informed to enroll their names for the course.


HOD

Department of Botany
Head of the Department of Botany,
ANDHRA CHRISTIAN COLLEGE
GUNTUR


Principal

PRINCIPAL
ANDHRA CHRISTIAN COLLEGE
(Day / Even. & P.G)
GUNTUR

Copy to:

The Coordinator, IQAC, Andhra Christian College, Guntur

The Manager, Andhra Christian College, Guntur

ANDHIRA CHRISTIAN COLLEGE, GUNTUR
DEPARTMENT OF BOTANY
CERTIFICATE COURSE IN BIOFERTILIZERS 2022 - 23

Objectives of the course:

- To make the students understand basics of biofertilizers.
- To develop skill both in handling and propagation of biofertilizers.

Outcomes:

- To understand the role of microorganisms in soil fertility.
- To understand the role of microorganisms in controlling pests.

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CERTIFICATE COURSE IN BIOFERTILIZERS 2022 – 23

Total hours of Teaching 30 hrs @ 1 per day

Syllabus:

Unit I:

Definition, History and Concept, Scope and importance of biofertilizers, Types of biofertilizers, Nitrogen fixation mechanism, Benefits of biofertilizers. 6hrs

Unit II:

Characteristic features of bio-fertilizers; Bacterial biofertilizers - Rhizobium, Azotobacter, Azospirillum; Phosphate solubilizers; Cyanobacterial biofertilizers – Anabaena, Nostoc; Algal biofertilizers – Azolla; Fungal biofertilizers – AM and ectomycorrhiza 10hrs

Unit III:

Production Technology of biofertilizers – Isolation of Azospirillum from roots, Mass production of biofertilizers, Production of BGA in rice crop. 6hrs

Unit IV:

Applications of biofertilizers to crops: Seed treatment, seedling root dip, soil treatment, Use of VAM biofertilizer, blue green algae, and azolla, Precautions to be taken while using biofertilizers. 8hrs


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