

ANDHRA CHRISTIAN COLLEGE, GUNTUR.

DEPARTMENT OF BOTANY.

Certificate course in Biofertilizers 2021 - 22

NOTICE

Date: 31/02/2022

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

ANDHRA CHRISTIAN COLLEGE, GUNTUR
DEPARTMENT OF BOTANY
CERTIFICATE COURSE IN BIOFERTILIZERS 2021 - 22

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.

ANDHRA CHRISTIAN COLLEGE, GUNTUR
DEPARTMENT OF BOTANY
CERTIFICATE COURSE IN BIOFERTILIZERS 2021 – 22

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


Head of the Department of Botany
ANDHRA CHRISTIAN COLLEGE
GUNTUR


PRINCIPAL
ANDHRA CHRISTIAN COLLEGE
(Day, Evening & P.G)
GUNTUR

Andhra Christian College: Guntur

Certificate Course on Biofertilizers

Student Attendance 2021-2022

S No	Name of the Student	Course	15/2	16/2	17/2	18/2	19/2	21/2	22/2	23/2	24/2	25/2	26/2	28/2	02/3	03/3	04/3	05/3	07/3	08/3	09/3	10/3	11/3	14/3	15/3	16/3	17/3	18/3	19/3	19/3	20/3	21/3				
1	P. Venkateswarlu	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
2	J. Pallavi	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/					
3	E. Gopi	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/					
4	R. Gopi	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/					
5	M. Subhash	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a					
6	R. Mahesh	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/					
7	K. Ammulu	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	a	/	/	/	/	/	/					
8	E. Balaji Naik	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/					
9	T. Vivek	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/					
10	K. Joel Paul Samuel	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/					
11	A. Rajkeerthana	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/					
12	G. Karthik	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/					
13	P. Venkateswarlu	1B.Sc., CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	a	/	/	/					
Signature of the Lecturer																																				

Head of the Department of Botany
ANDHRA CHRISTIAN COLLEGE
GUNTUR



PRINCIPAL
ANDHRA CHRISTIAN COLLEGE
 (Day, Evening & P.G.)
GUNTUR

Andhra Christian College::Guntur

Certificate Course on Biofertilizers

Student Attendance 2021-22

S. No.	Name of the Student	Course	15/2	16/2	17/2	18/2	19/2	21/2	22/2	23/2	24/2	25/2	26/2	28/2	02/3	03/3	04/3	05/3	07/3	08/3	09/3	10/3	11/3	14/3	15/3	16/3	17/3	18/3	19/3	19/3	20/3	21/3				
14	A.LakshmiKumari	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
15	M.HemaLatha	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
16	P.RatnaKumari	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
17	VemulaNagaljothi	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
18	P.MeghanaKumari	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
19	V.Neelima	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
20	T. Rani	III B Sc. CBZ	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
21	J. Theresamma	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/				
22	R.VenkataRaoNaik	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
23	AmeshPamula	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
24	A.Sai Ram	III B Sc. CBZ	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
25	B.Abhinay	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
26	B.Samuel	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
27	B.RahulDevPrakash	III B Sc. CBZ	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
28	B.Sahrudaya	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
29	B.Chandra Reddy	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
30	S.Vinay	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
31	T.Asha	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
32	T.Ratnakrupamma	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
33	V.Manoj	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
34	T.Rani	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
35	V.Siddu	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
36	Y.Swathi	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
37	Y.Sravani	III B Sc. CBZ	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
38	N.Sandhya Rani	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
39	G.Papa	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/				
40	V.Vamsi	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
41	T.Kiran Kumar	III B Sc. CBZ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
Signature of the Lecturer																																				


 Head of the Department of Botany
ANDHRA CHRISTIAN COLLEGE
GUNTUR




PRINCIPAL
ANDHRA CHRISTIAN COLLEGE
 (Day, Evening & P.G.)
GUNTUR

“Ye shall know the Truth and the Truth shall set you free”

Andhra Christian College::Suntur

(Day, II Shift & P. G.)

Accredited with A-grade by NAAC



Estd. 1885

CERTIFICATE

This is to certify that Mr. / Ms. K. JOEL PAUL SAMUEL,

Class I. B.Sc, Regd. No. Y213022007 has participated and successfully completed Certificate Course in **BIOFERTILIZERS** conducted by the Department of Botany from **15-02-2022 to 21-03-2022** and obtained Grade 'A'.


Coordinator


Principal
PRINCIPAL
ANDHRA CHRISTIAN COLLEGE

You shall know the Truth and the Truth shall set you free
Andhra Christian College::Guntur

(Day, II Shift & P. G.)

Accredited with A-grade by NAAC



Estd. 1885

CERTIFICATE

This is to certify that Mr. / Ms. A. RAJ KEERTHANA,

Class I. B.sc, Regd. No. Y213022001 has participated and successfully completed Certificate Course in **BIOFERTILIZERS** conducted by the Department of Botany from **15-02-2022 to 21-03-2022** and obtained Grade 'A'.


Coordinator


Principal
PRINCIPAL
ANDHRA CHRISTIAN COLLEGE
(Day, Evening & P.G.)
GUNTUR