

Andhra Christian College, Guntur

(Day, Evening and PG)

NOTICE

Date: 04-03-2022

This is to inform that there will be a seminar on “**Applications of Biotechnology in Agriculture**” tomorrow, i.e., on 05-03-2022, to be conducted by the department of Botany, at 3.00 PM. Mrs. B. Jasmine, Lecturer in Botany, Government Degree College for Women, Guntur will address the seminar.

All the students of Sr. Inter, B. Sc.(CBZ) and P. G. - Botany are instructed to attend the seminar without fail.



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1. The coordinator, IQAC, Andhra Christian College
2. The office manager, Andhra Christian College

Andhra Christian College::Guntur

Department of Botany

Seminar Report

Title: Applications of Biotechnology in Agriculture

Date and Time: 05-03-2022 at 3:00 p.m.

Venue: Department of Botany, Andhra Christian College, Guntur

Organized by: Department of Botany

Participants: Students of Sr. Inter, B.Sc., and P.G. Botany

Resource Person:

Mrs. B. Jasmine, Lecturer in Botany, Government Degree College for Women, Guntur

Faculty Present:

- Dr. V. Ezra Vijaya Sekhar, Head of the Department of Botany
- Mr. M. R. P. Satyakeerthi
- Mr. T. D. Raja Sekhar
- Dr. D. Phebe Sarah
- Mrs. G. Venkata Lakshmi

Objectives of the Seminar

- 1. Understanding Biotechnology in Agriculture:**
 - To provide an overview of biotechnology and its fundamental principles.
 - To explain how biotechnology is applied in the agricultural sector.
- 2. Highlighting Biotechnological Techniques and Innovations:**
 - To discuss various biotechnological techniques such as genetic engineering, tissue culture, and molecular markers.
 - To explore recent innovations and developments in agricultural biotechnology.
- 3. Emphasizing the Benefits and Challenges:**
 - To identify the advantages of using biotechnology in agriculture, including increased crop yield, pest resistance, and improved nutritional content.
 - To address the potential challenges and ethical considerations related to biotechnology in agriculture.
- 4. Promoting Scientific Inquiry and Research:**

- To encourage students to pursue further studies and research in the field of biotechnology.
- To highlight the potential career opportunities available in agricultural biotechnology.

Summary of the Seminar

The seminar commenced with a welcome address by Dr. V. Ezra Vijaya Sekhar, Head of the Department of Botany. He underscored the significance of biotechnology in modern agriculture and introduced the esteemed resource person, Mrs. B. Jasmine, Lecturer in Botany from Government Degree College for Women, Guntur.

Mrs. Jasmine began her presentation by defining biotechnology and its relevance in agriculture. She explained the basic concepts and techniques involved in agricultural biotechnology, including genetic modification, tissue culture, and the use of molecular markers for crop improvement.

She delved into specific applications of biotechnology in agriculture, such as:

- **Genetically Modified Organisms (GMOs):**
 - The development of genetically modified crops that are resistant to pests, diseases, and environmental stresses.
 - Examples of GMOs such as Bt cotton, Golden Rice, and herbicide-resistant soybeans.
- **Tissue Culture:**
 - The use of tissue culture techniques for the propagation of disease-free and high-yielding plants.
 - The role of tissue culture in the rapid multiplication of plants and conservation of endangered species.
- **Molecular Markers:**
 - The application of molecular markers in plant breeding to select for desirable traits with greater precision.
 - The use of marker-assisted selection (MAS) to accelerate the development of new crop varieties.

Mrs. Jasmine also highlighted the benefits of biotechnological advancements in agriculture, such as improved crop productivity, enhanced nutritional quality, and reduced reliance on chemical pesticides. She emphasized the potential of biotechnology to address global food security challenges and contribute to sustainable agricultural practices.

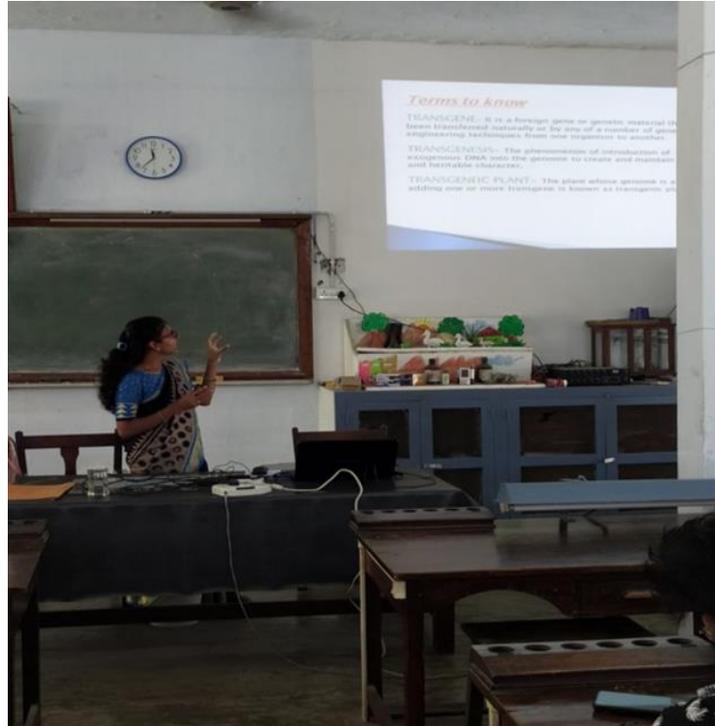
In addition, she discussed the challenges and ethical considerations associated with agricultural biotechnology. These included concerns about the safety of GMOs, potential environmental impacts, and the need for stringent regulatory frameworks to ensure the responsible use of biotechnological innovations.

Outcomes of the Seminar

1. **Enhanced Understanding:**
 - Students gained a comprehensive understanding of the principles and applications of biotechnology in agriculture.
 - They learned about the various techniques and innovations driving advancements in agricultural biotechnology.
2. **Awareness of Benefits and Challenges:**
 - The seminar provided insights into the significant benefits of biotechnology in improving crop yield, nutritional quality, and pest resistance.
 - Students were made aware of the challenges and ethical considerations that need to be addressed to ensure the safe and sustainable use of biotechnology.
3. **Inspiration for Further Study:**
 - The seminar inspired students to explore further studies and research opportunities in the field of biotechnology.
 - It highlighted the potential career paths available in agricultural biotechnology, encouraging students to consider this field for their future endeavors.
4. **Practical Knowledge:**
 - Students acquired practical knowledge about the real-world applications of biotechnology in agriculture.
 - They gained an appreciation for the role of biotechnology in addressing global agricultural challenges and promoting food security.

The seminar concluded with an interactive Q&A session where students actively participated, asking insightful questions about the applications and implications of biotechnology in agriculture. The resource person, along with the faculty members, provided detailed answers and further insights.

Mr. M. R. P. Satyakeerthi delivered the vote of thanks, expressing gratitude to Mrs. B. Jasmine and the participants for their active engagement and contributions to the seminar. The seminar ended on a positive note, with students leaving with a deeper understanding of the critical role of biotechnology in modern agriculture.



Mrs. Jasmine delivering message



Students attended



Dr.K.Moses, Principal felicitating Mrs.Jasmine

Attendance

Sl. No.	Name of the Student	Class	Signature
1	O. Keesthi	I B.Sc	O. Keesthi
2	N. Sri Kanya	M.Sc I year	N. Sri Kanya
3	P. Shiny	M.Sc I year	P. Shiny
4	V. Smily Sharon	M.Sc I year	V. Smily Sharon
5	Gr. Yesu Babu	M.Sc I year	Gr. Yesu Babu
6	K. Rajesh	Sr. Inter	K. Rajesh
7	P. Venkateswamy	B.Sc I year	P. Venkateswamy
8	R. Gopi	I B.Sc	R. Gopi
9	M. Subhash	I B.Sc	M. Subhash
10	K. Ammulla	I B.Sc	K. Ammulla
11	A. Rajkirthana	I B.Sc	A. Rajkirthana
12	Gr. Aravind Ratnam	I B.Sc	Gr. Aravind Ratnam
13	T. Vivek	I B.Sc	T. Vivek

14	N. Pravalika	II B.Sc	N. Pravalika
15	K. Sandeep	II B.Sc	K. Sandeep.
16	K. Kirta Patisandeep	II B.Sc	Kirta Patisandeep
17	K. Anjun Rao.	Sr. Inter	K. Anjun Rao.
18	SK. Adil	Sr. Inter	SK. Adil.
19	K. Akash	Sr. Inter	K. Akash.
20	D. Bhanathi	Sr. Inter	D. Bhanathi
21	Ch. Yesu Babu	Sr. Inter	Ch. Yesu Babu
22	George Molloy	Sr. Inter	George Molloy.
23	Ch. Hossanna	Sr. Inter	Ch. Hossanna.