

Bapuji Educational Association®
Bapuji Institute of Engineering & Technology, Davangere
Department of Biotechnology



A Report on
Green and Eco-friendly Campus Initiative
(March 2024 - March 2025)

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3. Anitha K S (4BD23BT003)

Certificate

This is to certify that the Green & Eco-Friendly Campus initiatives documented in this report have been genuinely undertaken by the **Department of Biotechnology** during the academic year **2024–2025**. The activities were carried out in alignment with institutional policies and AICTE Green Campus guidelines, and the details presented here are true to the best of our knowledge.

Signature of HOD

Date:

DECLARATION

I hereby declare that the information presented in this report on **Green & Eco-Friendly Campus Initiatives** undertaken by the **Department of Biotechnology** during the academic year **2024–2025** is true, accurate, and based on verifiable documentary evidence.

Name: Shruthi S R

Designation : Assistant professor

Date :

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Bapuji Institute of Engineering and Technology, Davangere

DEPARTMENT OF BIOTECHNOLOGY

Green and Eco-friendly Campus Initiative

Introduction

The Department of Biotechnology at Bapuji Institute of Engineering & Technology, is committed to imparting quality education while nurturing professional ethics, innovation, and sustainable development. With highly qualified faculty, modern laboratories, and active student participation, the department integrates core biotechnology concepts with environmental awareness and social responsibility. Emphasis is placed on sustainable practices through activities such as bio-waste management awareness, tree plantation drives, promotion of organic and eco-friendly practices, and participation in community-oriented environmental initiatives. These efforts cultivate environmental consciousness among students and staff, while closely aligning with the AICTE Green Campus objectives focused on resource conservation, biodiversity protection, and the development of an environmentally responsible academic ecosystem. Through these initiatives, the department reinforces its commitment to sustainable development and adherence to AICTE guidelines.

Objective: A Green Campus is a place where environmental friendly practices and education combine to promote sustainable and eco-friendly practices in the Department. The green campus concept offers the students an opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

Initiatives taken in the Department

- Students are encouraged to select the projects on waste management
- To create awareness regarding environmental policy amongst the students
- Turn off your monitor when you leave your table
- To use the solid waste through vermin-compost on the campus and use it as a fertilizer
- To use 'Use me' Dry and Wet dust bins in the college campus so as to keep college campus clean and tidy
- To reduce the 'sound pollution in the campus, we have built the seating arrangements in the shade of trees in our campus



Plantation of tree from second year students.

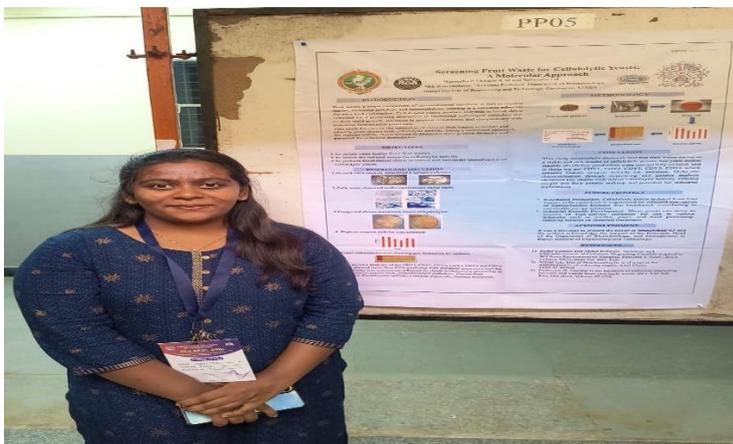
The second-year students organized a tree plantation activity to promote environmental awareness and contribute to a greener campus. Through this event, students learned about the importance of trees in maintaining ecological balance, improving air quality, and supporting biodiversity. The activity encouraged a sense of responsibility, teamwork, and care for nature, while also helping create a cleaner and more sustainable campus environment.

As part of our Green Campus Initiative, the following projects have been assigned to 6th semester students. These projects are designed to foster sustainable practices, promote environmental awareness, and contribute to eco-friendly solutions through innovative research and implementation

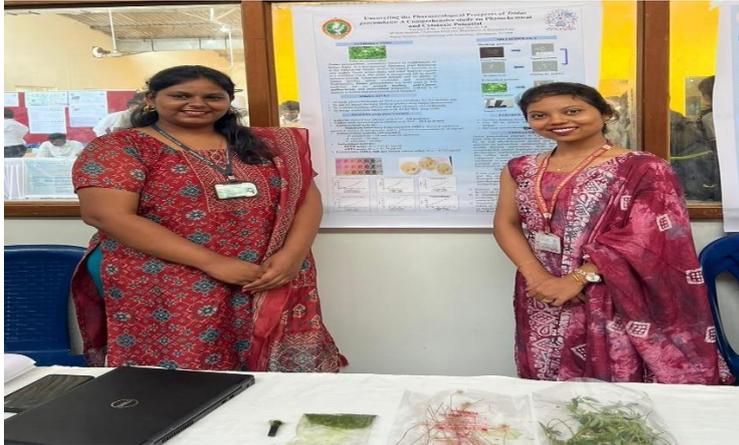
Sl. no	Student Name	USN	Title of the project
1	Amrutha V N	4BD22BT001	An integrated approach to develop a body lotion having antioxidant and antiaging properties
2	Anusha A Vernekar	4BD22BT002	
3	Deepika	4BD22BT004	
4	Kushan T S	4BD22BT005	Bioenzyme production from fruit waste
5	Likhitha G P	4BD22BT006	
6	Madhushree M B	4BD22BT007	Green synthesis of silver nanopartilces from sacred grass
7	Mangala D N	4BD22BT008	Biochemical assessment and comparative evaluation of the nutritional significance of fermented foods prepared using mixed rice varieties
8	Nayana G Singh	4BD22BT009	
9	Nithya	4BD22BT010	
10	Priya M	4BD22BT011	Exploring the Therapeutic Efficacy of Tridax procumbens: Docking Studies on Bioactive Phytochemicals
11	Sailekhana D S	4BD22BT013	
12	Sindhu M Gavannavar	4BD22BT014	
13	Sumedha P	4BD22BT015	Isolation and molecular characterization of cellolytic yeast from fruit waste
14	Swathi KM	4BD22BT016	
15	Vaishnavi V Rao	4BD22BT017	Extraction of salve from <i>Mimosa pudica</i>
16	Veeksha	4BD22BT018	



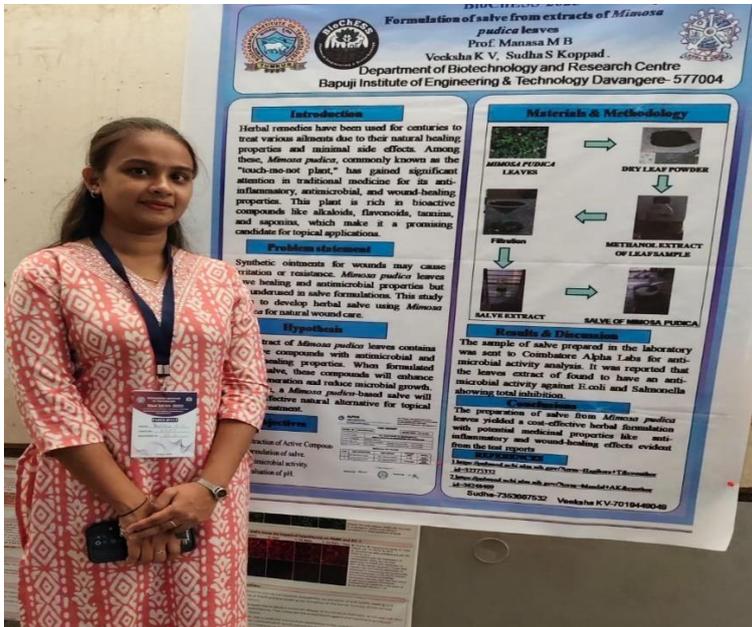
An integrated approach to develop a body lotion having antioxidant and antiaging properties



Isolation and molecular characterization of cellulolytic yeast from fruit waste



Exploring the Therapeutic Efficacy of *Tridax procumbens*. Docking Studies on Bioactive Phytochemicals



Extraction of salve from *Mimosa pudica*

As part of our Green Campus Initiative, the following projects have been assigned to 8th - semester students. These projects are designed to foster sustainable practices, promote environmental awareness, and contribute to eco-friendly solutions through innovative research and implementation.

S.N	USN	Name of the Students	Project titles
Batch B1			
1	4BD21BT001	ANKITA ARUNKUMAR SHETTY	Insilico Insights of proteins and Xenobiotics
2	4BD21BT003	CHINMAYI M S	
3	4BD21BT004	DARSHAN AMAR GAYAKWAD	
4	4BD21BT013	M SRI RAM	
Batch B2			
5	4BD21BT002	CHANDANA N	Development of Bio-plastic using banana peel, stem and Xanthan gum of microbial source
6	4BD21BT007	HARSHITHA N K	
7	4BD21BT009	KEERTHI M	
8	4BD21BT024	TEJASHWINI A BELLAD	
Batch B3			
9	4BD21BT014	NANDITHA K R	Extraction of Biofuel from <i>Chlorella vulgaris</i> and Comparative Emission Studies of Blended Biofuel
10	4BD21BT017	PRARTHANA R	
11	4BD21BT019	SHASTI HEMAREDDY MALLADAD	
12	4BD21BT021	SOUMYA RAJU BUJRU KAR	
Batch B4			
13	4BD21BT008	JAHNAVI R MYLE	Production of Bioethanol from pineapple peel
14	4BD21BT022	SPOORTHI G M	
15	4BD21BT025	VAISHNAVI P	
Batch B5			
16	4BD21BT012	LAVANYA K M	Exploring the Therapeutic Efficacy of Tridax procumbens. Docking Studies on Bioactive Phytochemicals
17	4BD21BT020	SHREEDHAR IRAYYA HIREMATH	
18	4BD21BT023	SYEDA MAHEK	
Batch B6			
19	4BD21BT005	DEEPA B N	Chemical pollutants and their effects in the indoor air of hospitals
20	4BD21BT011	LAKSHITA M OSWAL	
21	4BD21BT015	NIKITHA A V	
22	4BD21BT016	PRABHA G L	

Summary of Green Initiatives

Sl. No.	Initiative	Date (from-	Theme	Number of Participants Students	Key Outcome
1	Green campus Initiative by 2 nd year Students	30/11/24	Plantation of tree	27	Improved campus biodiversity and greener environment
2	Green campus Initiative by 3 rd year Students	20/01/2025 to 29/04/2025	Projects	16	Eco-friendly materials & waste utilization Green biotechnology & therapeutic exploration
3	Green campus Initiative by 4 th year Students	12/09/2024 to 15/12/2024	Projects	22	Environmental protection & sustainability

Outcome & Impact

The Department of Biotechnology has implemented several green initiatives that have resulted in environmental and educational benefits. Tree plantation and greenery enhancement activities have improved campus biodiversity and created a healthier learning environment, while student and faculty participation has strengthened awareness of sustainability. Students have also taken up projects related to green initiatives such as bio-waste management and sustainable practices, helping them gain hands-on experience and social responsibility. These collective efforts demonstrate effective implementation and alignment with AICTE Green Campus objectives.

Faculty coordinator

Program coordinator