



# DEPARTMENT OF BOTANY

K.A.H.M Unity Women's College, Narukara P.O., 676 122, Manjeri, Malappuram, Kerala

[unitybotany@gmail.com](mailto:unitybotany@gmail.com)

## DEPARTMENT AT A GLANCE







# DEPARTMENT OF BOTANY

## KAHM Unity Women's College, Manjeri



### Vision

To be the best undergraduate Botany department in Calicut University. We aim to achieve this goal through high-quality education with the highest honesty and professionalism.

### Mission

To make the department, a centre of excellence in plant science at undergraduate, post-graduate and research levels through quality education and research relevant to local, regional and national needs, and also to make students competitive.





# Objectives



**Educational Excellence:**

To provide a comprehensive and engaging education in plant biology, ecology, and related fields.

**Research and Exploration:**

To encourage scientific inquiry and research in plant science, fostering opportunities for students to participate in research projects.

**Environmental Awareness:**

To raise awareness about the importance of plants in maintaining ecological balance and the vital role they play in human survival.

**Community Engagement:**

To actively participate in community outreach and conservation efforts, promoting sustainable practices and environmental stewardship.

**Skill Development:**

To equip students with the skills and knowledge needed for careers in research, education, environmental management, and various sectors related to plant science.

**Excellence in Studies, Exploration, and Conservation:**

To promote excellence in botanical studies, encourage exploration of the plant world, and foster sustainable utilization and conservation of plant life.

## Programs offered

**BSc Botany (CBCSS & FYUGP)**

**MSc Botany (Aided & Self)**

# Faculty Profile



**Dr. Usman A.**  
M.Sc., Ph.D., P.D.F.



**Dr. Abdul Salam C. M.**  
M.Sc., Ph.D.



**Dr. Faseela P.**  
M.Sc., M. Phil, Ph.D.



**Dr. Deepa P.**  
M.Sc., B.Ed., Ph.D.



**Ms. Sudheesha K.**  
M.Sc.



**Dr. Nushiba Naser P T**  
M.Sc., Ph.D.



**Dr. Nazmin Banu CV**  
M.Sc., Ph.D.



**Ms. Shifa M.**  
M.Sc., B. Ed.



**Ms. Surya E. V.**  
M.Sc.



**Ms. Riya Fathima**  
M.Sc.



# Academic and Research Highlights

## Major Research Areas

Plant Pathology  
Plant Physiology and Biochemistry  
Plant Tissue Culture  
Plant Taxonomy  
Environmental Conservation  
Mushroom Cultivation

## Research and Publications

Number of Journal Articles Published - 16  
Number of Books Published by Faculty - 4  
Number of Book Chapters Published - 18  
Number of Faculty Seminar Publications - 8  
Number of student publications - 7  
No of student seminars presentations - 5  
Number of UG Projects - 185  
Number of PG Projects - 103

## Academic Events and Engagements

Number of webinars conducted - 13  
Number of seminars/conferences conducted - 3  
Number of workshops conducted - 12

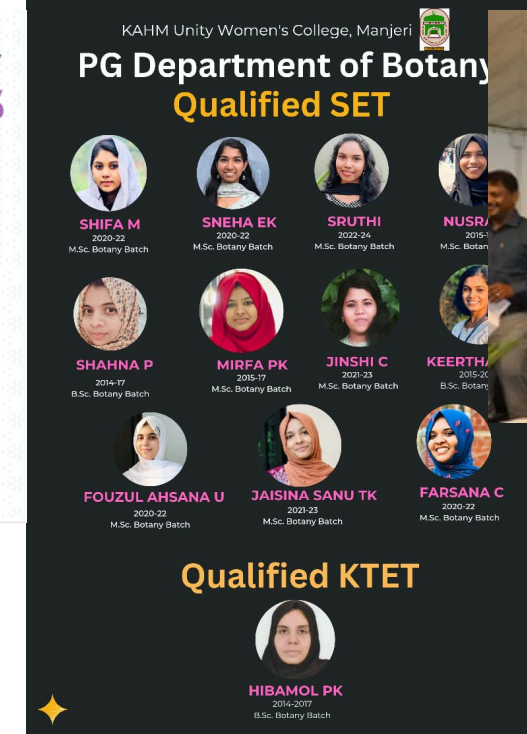
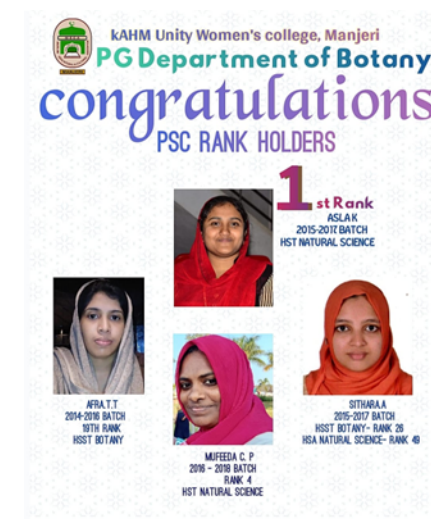






## Student & Faculty Achievements

- JRF holders - 7
- NET holders - 4
- ICAR JRF/NET holders - 4
- GATE holders - 3
- SET/KTET holders - 12
- Ayisha Febin P N bagged 9th Rank in the Calicut University BSc Botany Examinations 2022-23
- Febina Thasneem bagged 5<sup>th</sup> Rank in the Calicut University MSc Botany Examinations 2022-23
- Rasmiya K P bagged 9<sup>th</sup> Rank in the Calicut University MSc Botany Examinations 2022-23
- Shibila Banu Kalathingal bagged 2<sup>nd</sup> Rank in the Calicut University MSc Botany Examinations 2023-24
- Jumanath K C bagged 10<sup>th</sup> Rank in the Calicut University MSc Botany Examinations 2023-24
- PSC Rank Holders: Asla K - 1st Rank - HST Natural Science
- Mufeeda C P - 4<sup>th</sup> Rank - HST Natural Science
- Afra T T - 19<sup>th</sup> Rank - HST Natural Science
- Sithara A - 26<sup>th</sup> Rank - HST Natural Science
- Shibla Banu Kalathingal (2022-24 MSc Botany) received Best Paper Presentation Award at the National Seminar on Cytogenetics, Genomics and Plant Breeding, KSCSTE-MBGIPS, Kozhikode.
- Fathima Sahannada K - M.Sc. Biomedical Science with International Fellowship - University of East London 2022-23
- Shafeeda Valappara - IASc-INSa-NASI Summer Research Fellowship 2022-23
- Dr. Usman A. received young Scientist Award from SERB-DST, Govt. of India.
- Dr. Faseela P. received Chlorophyll a Fluorometer from Hansatech - International Hansatech Research Award.
- Dr. Faseela P. received Best paper presentation award at International conference on ‘Physiological and molecular mechanisms of abiotic stress tolerance in plants’ held from 26 to 28 October, 2022 at University of Calicut.





## Major Collaborations and MoUs

- Team Incubation, Calicut
- C.H.M.K.M. H.S.S. Kavanur, Malappuram
- Friends of Nature, NGO, Malappuram
- Ayurvedic Hospital & Research Centre, Kottakkal, Malappuram
- Agricultural Research Station Anakkayam, Manjeri
- National Institute of Plant Genome Research, Delhi
- Aligarh Muslim University, Uttar Pradesh
- KFRI Research Institute in Nilambur, Malappuram
- MSSRF, Wayanad

## Major Extension Activities

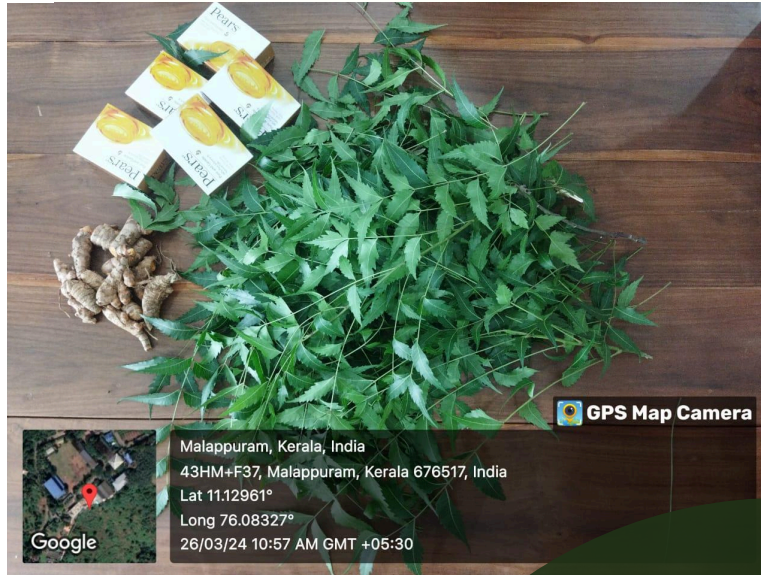
- Food Donation Drive to commemorate the 'World Food Day'
- Vermicompost Harvesting: A Hand to Nature
- Mushroom harvesting programme
- Dig into dirt - Worms at work
- Hands-on Training Workshop on Microbiology Techniques - by 'Ambrosia' Research Club
- Natural Handmade Soap Making Workshop
- World Environment Day observation – Planting Fruit trees 'Walk with Green'
- Distribution of microgreens to nearby community
- Community based survey "Sow, Grow, Eat" at Ward 47, Narukara
- Plant identification and floristic survey
- World Environment Day observation – Paper seed pen making workshop
- Environment Day Celebration: Setting up of an Orchidarium
- 'Chingam 1-Karshaka Dinam' celebration by SYLVIE Botany Association
- National Wildlife Day Celebration
- Microgreen Salads: Taste with Fresh
- Gender equity programme
- Workshop on 'Grow your own microgreens'







# Various Functional Clubs



Agri &  
Horticulture  
Club

Bhoomithrasena  
Club

Eco & Nature  
Club

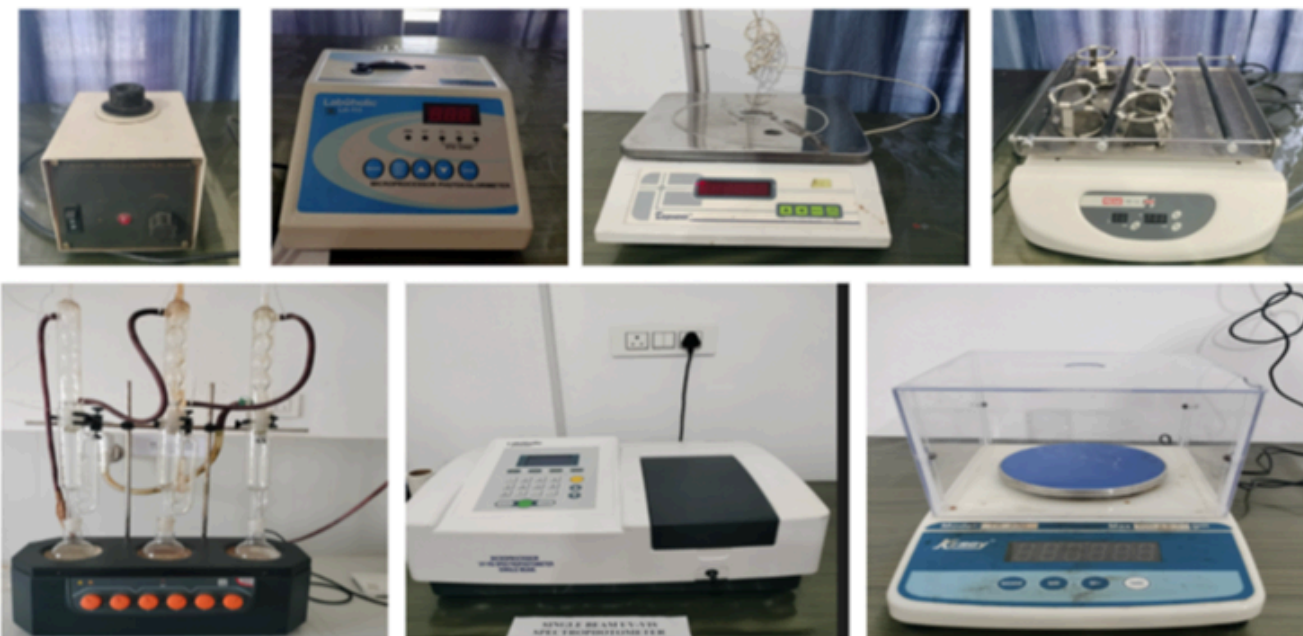
Biodiversity  
Club





# Infrastructure & Learning Resources

- UG Main Lab
- PG Main Lab
- Tissue Culture Lab
- Biochemistry Lab
- Instrumentation Room
- 150 Books in the Department Library
- 7 Classrooms with Smart TV and Internet
- Desktop for Student's project work
- Botanical Museum
- Herbarium



## Equipments & Instruments

- Stereomicroscope
- Bright-field microscope
- Centrifuges
- High sensitive electronic balance (four digits)
- High sensitive electronic balance (three digits)
- High sensitive electronic balance (two digits)
- Double distillation unit
- Hot air ovens
- Minirotory shaker
- Laminar air flow (LAF)
- UV-Visible Spectrophotometer
- pH meter
- Centrifuge Machines
- Soxhlet extraction apparatus
- Colorimeter
- Heating Mantle with regulator
- Magnetic Stirrer with Hot plate
- Chemical balance
- Electrical Water Bath





# Best Practices

- Technology Based Agricultural Farming
- Commercial Mushroom cultivation
- Monthly Newsletter
- Installation of digital plant boards at college campus







## **FUTURE PLANS**

**Community Based Training Centre at Department  
Upgradation into Research Centre**

**More Focused Extension & Outreach Activities for Ecosystem conservation and Sustainable Development**

**Centre for Quality Checking for Food, soil and Water**

**Full fledged plant Nursery**