

# International Conference on Advances in Plant Science (APS 2024)

**2024 OCTOBER 25**

**Erudite Lecture**

**Nano-enabled agriculture: A path to global food security in a changing climate**



**Dr. Jason C. White**

**Director**

**The Connecticut Agricultural Experiment Station (CAES)**

**123 Huntingdon Street**

**New Haven, Connecticut, US**



**Post Graduate Department of Botany**  
**Korambayil Ahamed Haji Memorial**  
**UNITY WOMEN'S COLLEGE, MANJERI**

P. O Narukara, Malappuram Dist, Kerala-676122



**Supported by**  
**Kerala State Higher Education Council**



## About the College

Korambayil Ahamed Haji Memorial Unity Women's College was established in 1991 and is run by Muslim Educational and Cultural Association (MECA) – a registered society. A First Grade Aided College affiliated to the University of Calicut, it is the first multi-faculty (Arts, Science & Commerce) Women's College in Malappuram District. It has also the unique distinction of being the only institution of this kind run by Muslim Community in Kerala. The institution aims the upliftment of women in general and the educationally backward Muslim women in particular, through modern good quality education. The College has creditable academic as well as co-curricular accomplishments. The college has been re-accredited in 2019 by the National Assessment and Accreditation Council (NAAC) at B++ Grade with CGPA 2.77

## About the Department

The Department of Botany was established in 1995, with the introduction of B.Sc. Botany course as the fifth undergraduate programme in the college during 1995-'96. It has the privilege of being the first B.Sc. Botany course in the whole of Malappuram district. The course was officially inaugurated by Jb. E.T. Muhammed Basheer, the then Hon. Minister for education, Govt. of Kerala on 21-01-1996. The course was started with 18 students only and now the intake capacity is raised to the statutory maximum of 50 students. During 2013-14 M.Sc. Botany programme was introduced in unaided stream with an intake capacity of 12 students and during 2020-'21, we got sanction to a second batch of M.Sc. Botany in aided stream with an intake of 10 students. At present, the intake capacity is raised to a total of 40 in both streams, 20 in aided and 20 in unaided stream respectively.

Presently, the Department consists of 10 teaching staff and 2 non-teaching staff. The department is offering high quality education in plant science, in order that the students are able to engage meaningfully in activities requiring botanical expertise. The training given by the department provides knowledge and a comprehensive appreciation of plants at the organism, community and ecosystem level. So far 26 U.G and 9 P.G batches had passed out from the department with excellent academic achievements. By 2010-'11 academic year, 14 B.Sc. batches completed in the annual stream and we produced 12 University Ranks in B.Sc. Botany. From 2004 to 2011, the department claims the unique position of producing university ranks consecutively for 8 years out of 30 colleges offering B.Sc. Botany course in the University of Calicut during that time. Similarly, our Department bagged 1st and 8th ranks in MSc. Botany of 2017-19 P.G. batch. Recently, Department bagged 2nd and 10th ranks in MSc. Botany of 2022-24 P.G. batch. University of Calicut introduced Choice based Credit Semester system from 2009 U.G admission onwards and Four-Year Undergraduate Programme (FYUGP) system starting from the 2024 undergraduate admissions. This system is aligned with the National Education Policy (NEP) 2020, which aims to provide a more flexible, multidisciplinary, and holistic approach to higher education in India. Along with academic activities, faculty members are actively involved in research and extension activities.

### Department at a glance

- UG and PG Programmes - B.Sc. Botany and M.Sc. Botany
- Undertaking Research Projects
- Conducting seminars and workshops
- Started Life Science Coaching Centre for CSIR, GATE, CUET, JAM, ...
- Field visits and study tours are conducting regularly for UG and PG students

### Course offered

Community Outreach Programmes

M.Sc Botany (Aided)

M.Sc Botany (Self finance)

B.Sc Botany (3 Years)

BSc Botany Honours (4 Years)

## Scientific Themes

- Plants and Phytochemical analysis
- Climate Change & Crop Productivity
- Ecophysiology of Plants
- Conservation Biology

These sessions will consist of plenary lectures by invited speakers and oral/poster presentations by young scientists. The best papers/ posters shall be awarded. The participants will have an opportunity to publish their works in an ISBN book publish by the Post Graduate Department of Botany, Korambayil Ahamed Haji Memorial Unity Women's College, Manjeri, Malappuram, Kerala.

## Abstract Submission

The participants have to submit the abstracts of their work in any of the Plant Science areas, which can be submitted by mailing to [unitybotanyiqac@gmail.com](mailto:unitybotanyiqac@gmail.com) on or before 23rd October 2024. Full paper for publishing the book should be mailed to the same mail on or before 24<sup>th</sup> October 2024. The abstract should be typed in English using MS word (single space; font-Times New Roman; font size-12) and should not exceed 250 words. The abstracts must contain title of the paper, name(s) of the author followed by their affiliation and e-mail. The name of presenting author should be underlined.

Registration Fee			
Category	Only Participation	Participation & Presentation	Participation, presentation & publication
Scientists/ Faculties	₹ 200/-	₹ 500/-	₹ 600/-
Research Scholars	₹ 200/-	₹ 400/-	₹ 500/-
Students	₹ 150/-	₹ 200/-	₹ 300/-

## Mode of Payment

All delegates should pay registration fee as per the following methods:

1. By Online Bank Transfer, G Pay to the number 9048226588
2. By UPI Transfer using the QR code provided here. Kindly upload the online payment memo / receipt in the given online registration form.



Register here: <https://forms.gle/aVGQc2t6Z9BVqdnr5> >>>

Contact Us

**Dr. Faseela P.**

Convenor, APS 2024

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

# Programme Schedule

## Inaugural Session

10:00 AM - 10:30 AM

## Inaugural Lecture

: **Dr. Jason C. White**, Director, The Connecticut Agricultural Experiment Station, New Haven, US  
**Topic: Nano-enabled agriculture: A path to global food security in a changing climate**

## Invited Lecture

: **Dr. Akhila Sen**, Assistant Professor, Department of Botany, Mar Athanasius College (Autonomous), Kothamangalam, Kerala  
**Topic: Seed Priming for Abiotic Stress Tolerance in Plants**

## Lunch Break

12:30 PM - 1:30 PM

## Oral / Poster Presentation

1:30 PM - 4:00 PM

## Valedictory Session

4:00 PM - 4:30 PM

## Organizing Committee

### Patrons

Prof. Muhammed Basheer Ummathur (Principal, KAHM Unity Women's College, Manjeri)

Dr. Usman A (HOD, Department of Botany, KAHM Unity Women's College, Manjeri)

### Convenor

Dr. Faseela P (Assistant Professor, Department of Botany, KAHM Unity Women's College, Manjeri)

### Organizing Secretaries

Dr. Deepa P (Assistant Professor, Department of Botany)

Ms. Shifa M (Assistant Professor, Department of Botany)

Ms. Surya EV (Assistant Professor, Department of Botany)

Ms. Sudheesha K (Assistant Professor, Department of Botany)

Ms. Nadiya T (Assistant Professor, Department of Botany)

Ms. Nazmin Banu CV (Assistant Professor, Department of Botany)

Ms. Nushiba Naser PT (Assistant Professor, Department of Botany)

Ms. Shuhaila M (MSc Botany, Department of Botany)