

Department of Zoology

Association Inauguration and Research Orientation

The department inaugurated its Association for the academic year on September 3, 2024, followed by a **research orientation session** aimed at enhancing students' research skills. The session was led by **Ms. Shahina Basheer**, Assistant Librarian at MES College, Marampally, who delivered an insightful talk on **“Optimizing Research Planning Through Comprehensive Literature Searches.”** The program provided valuable guidance on effective research strategies and the importance of systematic literature review in academic work.



The image displays a promotional poster for a research orientation session at Mar Thoma College for Women, Perumbavoor, Department of Zoology. The poster includes the date (September 3, 2024), the resource person (Ms. Shahina Basheer, Assistant Librarian at MES, Marampally), the topic (Optimizing Research Planning Through Comprehensive Literature Search), and the time and location (11:30 A.M. at PG Seminar Hall). It also lists the HoD, Principal, and Student coordinator. Below the poster is a photograph of Ms. Shahina Basheer speaking at a podium during the session. A GPS Map Camera overlay in the bottom left corner provides the location (Perumbavoor, Kerala, India) and the date and time of the event.

Mar Thoma College for Women, Perumbavoor

DEPARTMENT OF ZOOLOGY

ON SEP 03, 2024

Resource person: **MS. SHAHINA BASHEER**
Assistant Librarian
MES, Marampally

Topic:
**Optimizing Research Planning
Through Comprehensive
Literature Search**

HoD: Ms. Reemy Sara Mathai
Principal: Ms. Sherin T. Abraham
Student coördinator: Ms. Khadheeja

11:30 A. M.
PG SEMINAR HALL

**Optimizing Research Planning
Through comprehensive
Literature Search.**

SHAHINA BASHEER
Assistant Librarian
MES College, Marampally

GPS Map Camera

Perumbavoor, Kerala, India
4F9Q+MHF, Perumbavoor - Kuruppampady Rd, Perumbavoor, Kerala 683542, India
Lat 10.119955°
Long 76.489409°
03/09/24 11:11 AM GMT +05:30


Day Observances and Celebrations

The Zoology Department actively participated in various national and international day observances throughout the academic year, promoting awareness, creativity, and community engagement among students.

Environment Day was celebrated on June 5, 2023, with a **collage competition** that highlighted environmental themes. Ms. Nivedita Velayudhan of third-year B.Sc. Zoology secured the first prize for her creative entry.



Tiger Day, observed on July 12, 2024, featured an **exhibit** titled “**Jungle Majesty**”, which highlighted the unique traits of tigers and emphasized their importance in biodiversity conservation.

 **Mar Thoma College for Women, Perumbavoor**
ZOOLOGY DEPARTMENT

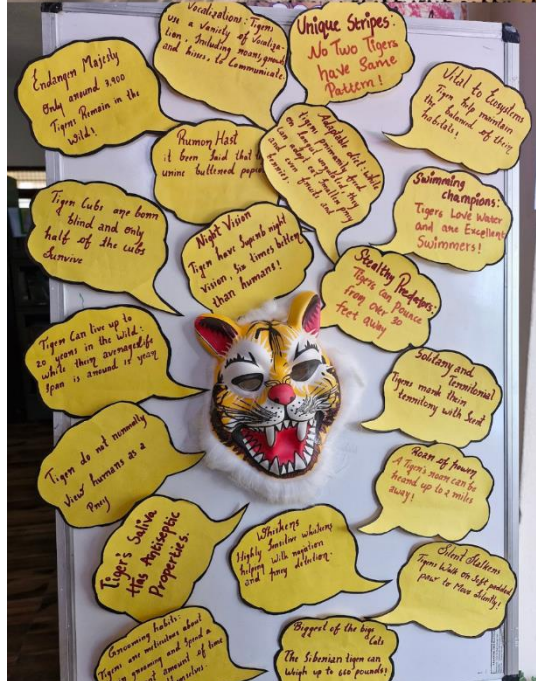
Jungle Majesty

Explore the extraordinary traits
of the tiger at our captivating exhibit.

International **TIGER Day**

Student Co-ordinator: Ms. Arundhathy
HoD: Ms. Reemy Sara Mathai
Association activity in-charge: Ms. Smrithy P. S.
Principal: Ms. Sherin T. Abraham

JULY 31, 2024



Endangered Majesty
Only around 3,900
Tigers remain in the
wild!

Vocalizations: Tigers
use a variety of vocaliza-
tion, including roars, growls,
and hisses, to communicate.

Unique Stripes:
No Two Tigers
have Same
Pattern!

Vital to Ecosystem
Tiger has maintain
the balance of the
habitat.

Predator Hunt
It been said that
urine bullhead pop!

**Swimming
champions:**
Tigers Love water
and are Excellent
Swimmers!

Tiger Cubs are born
blind and only
half of the cubs
Survive

Night Vision
Tiger have superb night
vision, 6x times better
than humans!

Scatting Predece:
Tiger can Pounce
from over 30
feet away

**Solitary and
Territorial**
Tiger mark their
territory with scent

**Tiger Can live up to
20 years in the wild,**
while they average life
span is around 12 years

Race of Power
A tiger's roar can be
heard up to 4 miles
away!

**Tiger do not normally
kill humans as a
prey**

**Tiger's Saliva
Has Antibiotic
Properties.**

Whiskers
Highly Sensitive whiskers
helps tiger with navigation
and prey detection.

Sharp Claws
Tiger claws are soft padded
paw to move silently.

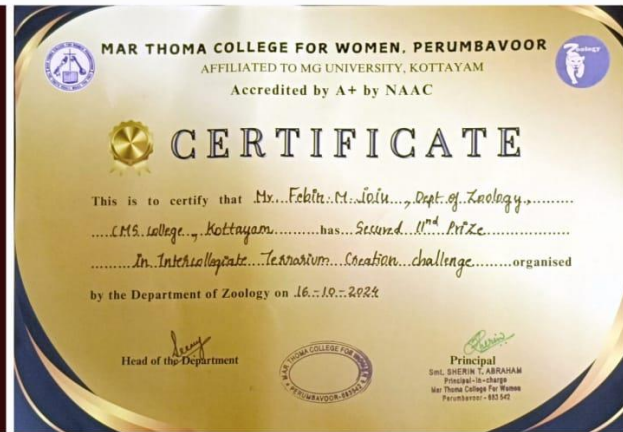
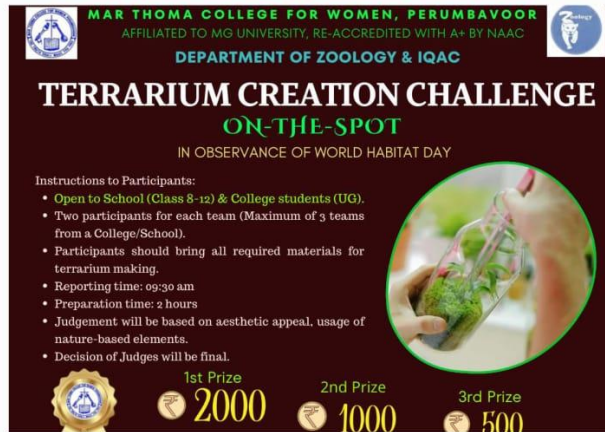
Creeping habits
Tiger are notorious about
creeping and spend a
long period of time
rest themselves.

**Striped of the big
cats**
The Siberian tiger can
weigh up to 660 pounds!

On August 12, **World Elephant Day** was commemorated through “**The Gaja Art**”—a striking elephant head model crafted by students to showcase the cultural and ecological significance of elephants and advocate for their protection in the wild.



World Habitat Day, held on October 16, included an **intercollegiate and inter-school on-the-spot terrarium competition**. Anna Joseph and Sreelakshmi B. from CMS College, Kottayam, claimed the first prize along with a ₹2000 cash award, while participation certificates were distributed to all attendees.



On **World Spine Day**, October 18, an **awareness video on spinal health** was presented to highlight the importance of good posture and physical care.



MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR



An IQAC initiative

Department of Zoology & Health Club



WORLD Spine Day

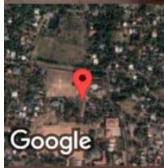
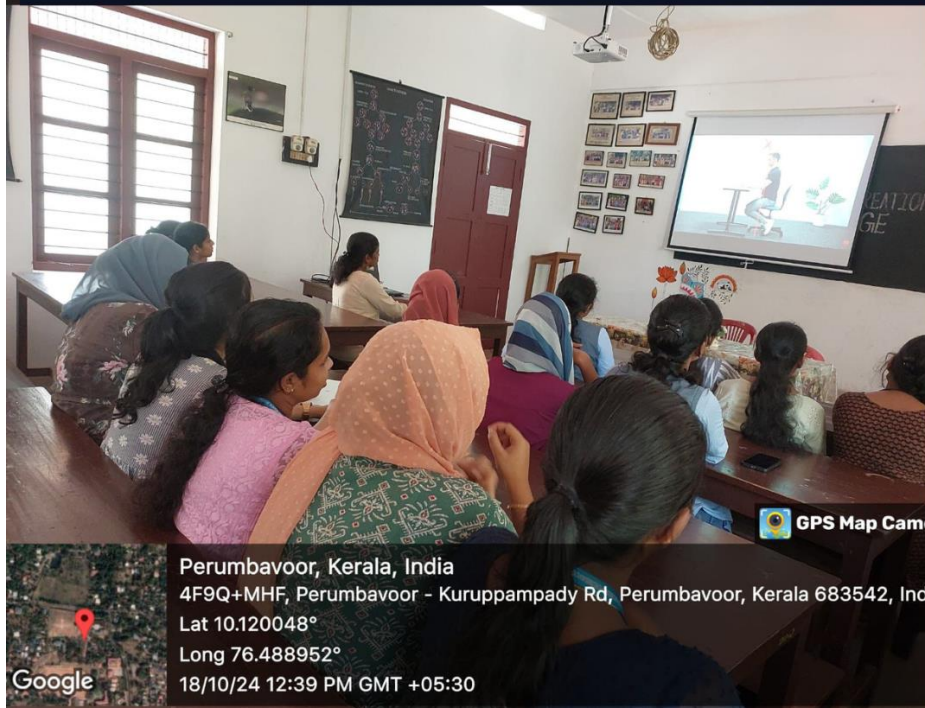
Video Show

18-10-2024
PG Seminar Hall
12:30 PM

Principal
Ms. Sherin T. Abraham

HoD
Ms. Reemy Sara Mathai

Student coördinator
Ms. Krishna Madhu



Perumbavoor, Kerala, India
4F9Q+MHF, Perumbavoor - Kuruppampady Rd, Perumbavoor, Kerala 683542, India
Lat 10.120048°
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18/10/24 12:39 PM GMT +05:30

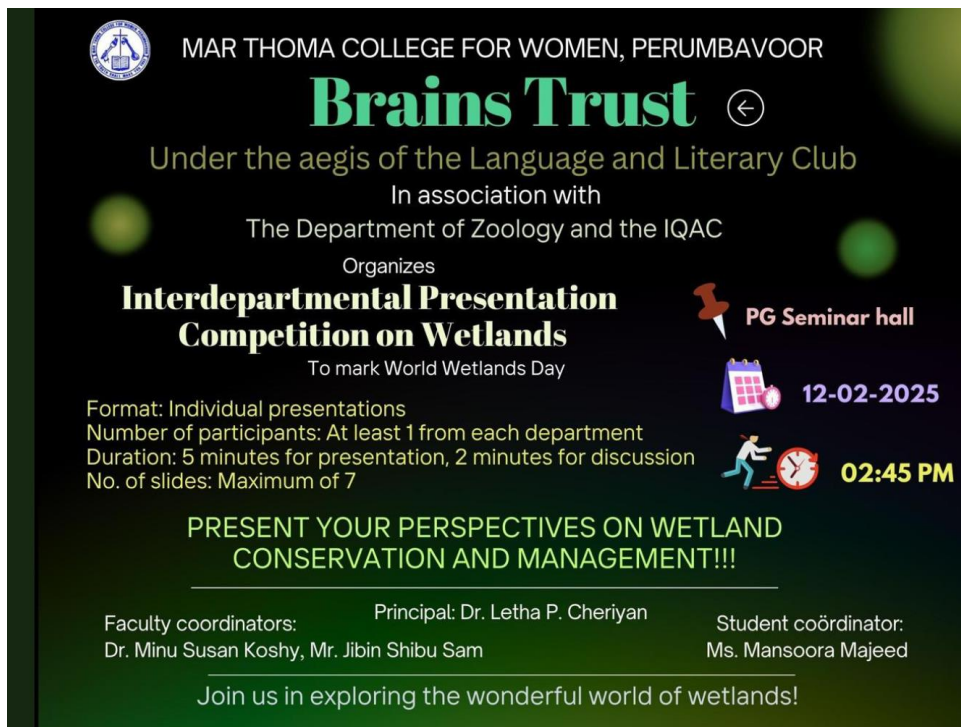
On 18th December 2024, **Monkey Day** was observed with a **digital poster exhibit** on the **ecological significance and conservation status of the Lion-Tailed Macaque**, an endangered primate endemic to the Western Ghats. The activity served a **dual purpose**—it functioned as an

ICT upskilling initiative and also contributed to **curriculum enrichment**, enabling participants to creatively engage with wildlife themes while enhancing their digital literacy.



World Wetlands Day on February 12, 2025, was celebrated in collaboration with the Brains Trust and the Language and Literary Club. An **interdepartmental presentation competition** on the theme of wetlands was held, with Fathima Shahala (II M.Sc. Zoology) winning first prize,

followed by Adithya E.M. (II B.Sc. Chemistry) in second place, and Sneha Mohan U.P. (III B.Sc. Zoology) in third.



The poster is for an event titled "Brains Trust" under the aegis of the Language and Literary Club, in association with the Department of Zoology and the IQAC. It organizes an "Interdepartmental Presentation Competition on Wetlands" to mark World Wetlands Day. The event is held in the PG Seminar hall on 12-02-2025 at 02:45 PM. The format includes individual presentations, with at least one participant from each department, a 5-minute presentation and 2-minute discussion duration, and a maximum of 7 slides. The theme is "PRESENT YOUR PERSPECTIVES ON WETLAND CONSERVATION AND MANAGEMENT!!!". Faculty coordinators are Dr. Letha P. Cheriyan (Principal), Dr. Minu Susan Koshy, and Mr. Jibin Shibu Sam. The student coordinator is Ms. Mansoor Majeed. The poster encourages participation in exploring the world of wetlands.

MAR THOMA COLLEGE FOR WOMEN, PERUMBAAVOOR

Brains Trust

Under the aegis of the Language and Literary Club
In association with
The Department of Zoology and the IQAC
Organizes

Interdepartmental Presentation Competition on Wetlands

To mark World Wetlands Day

Format: Individual presentations
Number of participants: At least 1 from each department
Duration: 5 minutes for presentation, 2 minutes for discussion
No. of slides: Maximum of 7

PG Seminar hall
12-02-2025
02:45 PM

PRESENT YOUR PERSPECTIVES ON WETLAND CONSERVATION AND MANAGEMENT!!!

Faculty coordinators: Principal: Dr. Letha P. Cheriyan
Dr. Minu Susan Koshy, Mr. Jibin Shibu Sam

Student coördinator: Ms. Mansoor Majeed

Join us in exploring the wonderful world of wetlands!



Science Day Celebration on February 27, 2025 was marked by the **release of a special science edition calendar**. These events collectively reflect the department's commitment to fostering awareness, scientific curiosity, and active participation in both academic and social dimensions.



First Year Induction and Bridging Activities

The First Year Induction Programme, conducted from July 3 to 8, 2024, featured a series of vibrant and engaging events aimed at welcoming and integrating new students into the campus

community. Highlights included the Green Day Ramp Walk, Azurian Day student formations, Floral Day creative representations, and an interactive session titled *“You Tell: Let’s Speak,”* which encouraged students to express themselves and connect with their peers.

Following this, a bridging activity titled *“Hands on Biology”* was organized on July 10, 2024. This event showcased creative model-making based on biological concepts such as the microscope, kidney functions, terrariums, and cell structures. The first prize was jointly awarded to Arundhathy Narayanan and Aswathy from the first-year B.Sc. Zoology class for their outstanding models.



Skill Development and Sustainable Practice Workshops

A skill-training workshop on Agarbati making was held on July 8, 2024, aimed at equipping participants with practical skills that could support self-employment and income generation. Additionally, on September 7, the department organized a hands-on workshop titled “*Hands-Grown Green*”, which focused on microgreen cultivation, encouraging sustainable practices and healthy living among students.



Add- on Courses of the Department

The department also offers **add-on courses** specifically designed to **equip beneficiaries with practical skills** that support both employability and academic enrichment. Among these:

- **Herbal Bathing Bar Making:** A hands-on course aimed at enhancing **entrepreneurial skills** and promoting **self-employment opportunities** through sustainable practices using locally available resources.
- **Insect Collection and Preservation:** This course supports **curriculum enrichment** by offering field-based learning experiences, helping participants develop taxonomic skills and a deeper understanding of biodiversity.

These initiatives not only foster awareness and appreciation for the natural world but also align with the broader goals of skill development and environmental education.



Department Health Club Initiatives

As part of the Health Club initiatives, the first-year B.Sc. Zoology students organized a **Cancer Awareness Campaign** on 7th November 2024, targeting both students and staff. The campaign emphasized the **importance of self-examination and routine health checkups** for early diagnosis, along with highlighting the role of **lifestyle management** in cancer prevention. The activity aimed to instill proactive health practices and create a more health-conscious campus community.

In connection with **World Environmental Health Day** on September 2, the department, under the Health Club banner, organized a thematic assembly focused on the **interconnectedness of environmental well-being and public health**. The program featured a **mime performance** depicting environmental challenges, a **group song** promoting ecological awareness, and a **sapling plantation drive** to encourage sustainable practices. The event aimed to inspire students to adopt **eco-conscious lifestyles** that contribute to both environmental and personal wellness.



Mental Health Club Initiatives

The **Mental Health Club** of the department actively promoted emotional well-being and self-care through creative and inclusive initiatives. On **World Heart Day**, observed on September 30, the club organized “**Hearistry**”, a heart-themed **face-art event** symbolizing love, unity, and the importance of caring for both physical and emotional health.

Continuing this focus, **World Mental Health Day** on October 10 was marked with “**The Action of Acknowledgement**”, a thoughtful initiative where students and staff were greeted with warm messages and encouraging words, fostering a positive and supportive campus atmosphere.



Field Visits and Study Tours

As part of experiential learning and practical exposure, the Department of Zoology organized several field visits and study tours during the academic year, providing students with hands-on learning experiences beyond the classroom.

On **October 14, 2024**, students visited the **Aromatic and Medicinal Plants Research Station** at Odakkali. This institute visit offered valuable exposure to various instruments and techniques used in biological and phytochemical research, enriching the students' understanding of applied life sciences and plant-based studies.

Following this, on **October 25, 2024**, a **field study tour** was conducted to **Elaveezhapoonchira and Wagamon**, where students undertook an **ecological study** focusing on **pine forest ecosystems and natural ponds**. The visit provided an excellent opportunity for students to observe biodiversity, habitat types, and ecological interactions in a natural setting, reinforcing classroom learning with field-based insights.

On **March 8, 2025**, students visited the **Cocoa Rich Chocolate Factory** at Naduvattom. This industrial visit provided an interdisciplinary perspective on the transformation of natural raw materials into consumable products. Students explored the biochemical and microbiological aspects of chocolate production, gaining an understanding of industrial hygiene, quality control, and the commercial relevance of biological sciences.

These visits collectively contributed to holistic learning, bridging theoretical knowledge with real-world applications and inspiring students toward research and innovation in life sciences.

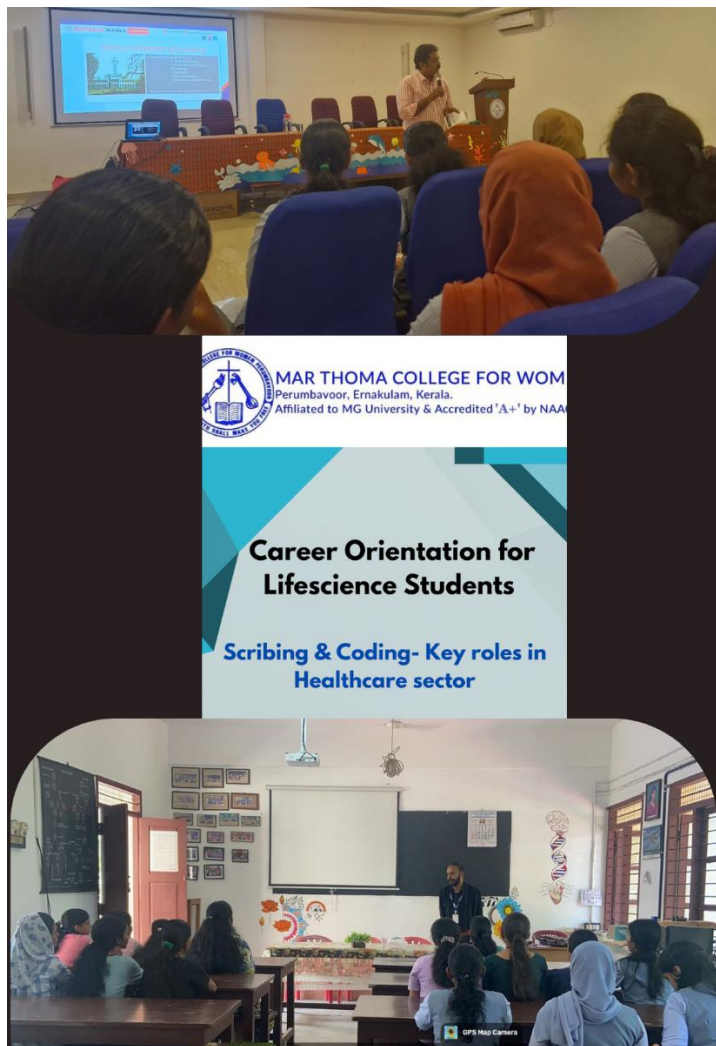


Guiding Career Pathways in Life Sciences

A series of **Career Orientation Programmes** were conducted during the academic year to guide students in exploring emerging opportunities in the life sciences field. On **September 2, 2024**, a session was led by *Anton's MediCode*, focusing on career possibilities in **medical coding and allied health sectors**. The session helped students understand the relevance of life science education in clinical documentation and healthcare support services.

On **January 7, 2025**, a **Path-setting and Student Progression Orientation** was organized, featuring **Dr. Kiran Kumar E.** as the resource person. This comprehensive session provided students with valuable insights into various career avenues in research, academia, and the biotech industry, encouraging them to set clear academic and professional goals.

Following this, an **Industry Orientation Session** was conducted on **January 15, 2025**, highlighting career opportunities in **scribing and medical coding**. The session underscored the increasing demand for life science graduates in healthcare data management and electronic health records, bridging the gap between academic learning and industry expectations.



Bio-Myst: A Mini Exhibition

On December 30, 2024, the department organized a **mini exhibition titled *Bio-Myst*** for high school students from neighboring schools. The event featured **zoological specimens**, sparking curiosity and a growing interest in the biological sciences among the young visitors. In keeping with a focus on sustainability, **seeds were gifted in eco-friendly packaging**—using paper and waste coir twines—encouraging eco-conscious thinking and responsible living.

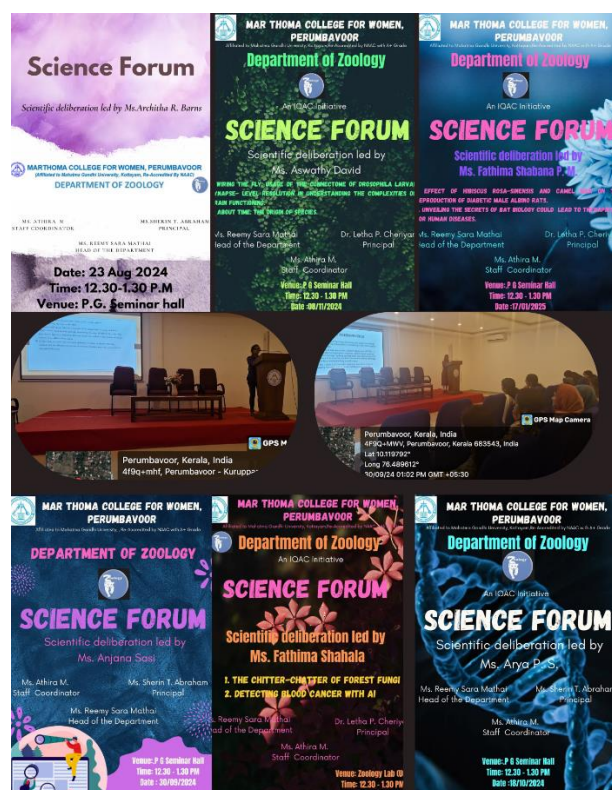


Science Forum

The Science Forum at Mar Thoma College for Women, Perumbavoor, affiliated with Mahatma Gandhi University, Kottayam, and re-accredited by NAAC with an A+ Grade, has transitioned from an online format into a dynamic live discussion platform, fostering richer interactions and engagement on scientific topics. Organized by the Department of Zoology as part of an IQAC initiative, the forum serves as a vibrant platform for scientific exchange, featuring a series of PG student-led presentations on diverse and impactful research areas.

The series began on August 23, 2024, with Ms. Architha R. Barns leading a session in the P.G. Seminar Hall, followed by Ms. Anjana Sasi on September 30, 2024. On October 18, 2024, Ms. Arya P. S. led the forum, followed by Ms. Aswathy David on November 8, 2024, who presented on the usage of the connectome of *Drosophila* larval synapse-level resolution in understanding brain functioning and the origin of species. On January 17, 2025, Ms. Fathima Shabana P. M. shared her findings on the effects of *Hibiscus rosa-sinensis* and camel milk on diabetic male albino rats, along with insights into how bat biology could help develop therapies for human diseases. Continuing the momentum, on February 20, 2025, Ms. Fathima Shahala conducted a thought-provoking session in the Zoology Lab (UG), presenting topics such as “The Chitter-Chatter of Forest Fungi” and “Detecting Blood Cancer with AI.”

All sessions were conducted from 12:30 PM to 1:30 PM, primarily at the PG Seminar Hall, and exemplify the department’s commitment to nurturing scientific curiosity, critical thinking, and meaningful discourse among students. Throughout the series, **Ms. Athira M.** served as the dedicated faculty coordinator, ensuring the smooth execution and academic value of the forum.



Launch of Digital Magazine – *Spectrum*

The academic year culminated with the launch of the department’s digital magazine “*Spectrum*” on March 14, 2025, officiated by the Principal and the IQAC coordinator. The magazine was edited by Nimisha Vijayan and Ann Mariya Shaji. It can be accessed via the following link: <https://online.fliphtml5.com/bzhgj/orum/>.



Enriching Webinars In Collaboration with the Social Forestry Wing

As part of efforts to raise awareness and promote conservation, two engaging webinars were organized, focusing on key components of India's diverse wildlife—frogs and aquatic megafauna.

On **20th March 2025**, a special webinar titled “**Frogs of Kerala**” was held at 6:00 PM via Google Meet, featuring **David Raju**, a noted naturalist, photographer, and author. Participants explored the rich diversity of Kerala's amphibians, their ecological significance, and the pressing need for habitat conservation.

On **4th April 2025**, under the theme “**The World is Their Home Too**”, a thought-provoking webinar on “**Conservation of Aquatic Megafauna**” was conducted from 7:00 PM to 8:00 PM. The resource person, **Dr. A. Bijukumar**, Senior Professor and Head of the Department of Aquatic Biology, Kerala University, highlighted the importance of protecting aquatic giants like sea turtles and whales, while emphasizing their crucial role in maintaining healthy ecosystems.

