ABOUT THE COLLEGE & THE DEPARTMENTS



A Legacy of Learning. A Future of Discovery:
Mar Athanasius College (Autonomous), Kothamangalam, established in 1955 and affiliated with Mahatma Gandhi University, Kottayam, is a distinguished institution managed by the Mar Athanasius College Association, constituted in 1953 under the Cochin Registration of Scientific and Charitable Societies Act. Offering 18 undergraduate programmes, 17 postgraduate programmes, 1 integrated postgraduate programme and 8 doctoral programmes, the college provides a diverse and enriching academic environment. Guided by a vision to nurture character, integrity, courage and social responsibility, the institution is committed to academic excellence, research, innovation and holistic development, empowering students to explore new horizons and shape a brighter future.

Discover Life. Decode Science. Drive Innovation.
The Departments of Microbiology, Biotechnology and Biochemistry bring science to life through advanced learning, hands-on laboratory experiences and innovative research. From exploring the hidden world of microorganisms to unlocking the secrets of genes, cells and biomolecules, we inspire curiosity, nurture scientific talent and empower future innovators to create sustainable solutions for a healthier world.

IGNITE YOUR CURIOSITY

REGISTRATION DETAILS

Click this link for registration

https://forms.gle/Do7MJwjtjiEYHNa56

Last Date for Registration:

08 November 2026

PAYMENT DETAILS

Registration Fee: ₹100 + 18% GST (₹118 per student).

Payment: Scan this QR code to complete the payment.

EVENT DETAILS

VENUE:
Student's Centre, Microbiology Lab, Molecular Biology Lab, Enzymology and Virology Lab, Mushroom Cultivation Unit.

Timing: 9.00 AM to 4.00 PM

CONTACT
Dr. Nivya Mariam Paul
9847169567

Dr. Nayomi John
9656256804

Participation certificates will be provided to all participants.

THANKS TO
Mother Scientific / Q-Lab

MAR ATHANASIUS COLLEGE (AUTONOMOUS), KOTHAMANGALAM
Consistently Ranked in NIRF'S Top 100 Colleges since 2021 / NAAC A+ Grade Institution

DEPARTMENTS OF MICROBIOLOGY, BIOTECHNOLOGY & BIOCHEMISTRY

PRESENTS



TWO-DAY WORKSHOP

UNLOCK THE UNSEEN

Exploring Microbes, Genes and Biomolecules

10-11-2026 & 11-11-2026

FOR PLUS TWO STUDENTS

Explore • Learn • Innovate

Tiny organisms. Big ideas for a healthier, greener tomorrow.

A HANDS-ON INTRODUCTION TO MICROBIOLOGY

1. SOXHLET EXTRACTION & ANTIBACTERIAL ACTIVITY

- Unlocking Nature's Antibacterial Potential: From Plant Extraction to Microbial Control.



- Explore natural plant compounds through Soxhlet extraction.
- Analyze the extracts using Thin-Layer Chromatography (TLC) and qualitative analysis.
- Test the extracts for their ability to inhibit bacterial growth.

2. UNLOCKING BACTERIAL DNA: EXPLORING THE BLUEPRINT OF LIFE

- Decoding the Genetic Blueprint: Exploring Bacterial DNA Isolation.



- Explore bacterial DNA isolation and discover the genetic material inside bacterial cells.
- Learn how DNA is extracted, separated, and observed to understand the molecular basis of life.

MORE WAYS TO EXPLORE

3. BACTERIAL GROWTH & ANTIBIOTIC SUSCEPTIBILITY

- Inside the Microbial World: Exploring Bacterial Growth and Antibiotic Effectiveness.



- Observe bacterial growth and learn how antibiotics stop it.

4. MUSHROOM CULTIVATION

- From Spawn to Harvest: Exploring the Science of Mushroom Cultivation



- Explore the fascinating life cycle of mushrooms.
- Learn substrate preparation and spawn inoculation, and understand the fundamentals of sustainable mushroom cultivation.

5. MICROSCOPY CORNER: A HIDDEN WORLD



- Beyond the Naked Eye: Exploring the Invisible World of Microorganisms
- Explore the fascinating diversity of microbial life.

"BIOSPARK" - IDEATHON

YOUNG INNOVATORS IDEATHON

"Simple Ideas, Smarter Solutions for a Better Tomorrow"

THEMES & SUGGESTED AREAS

- Health & Well-being
- Food & Nutrition
- Green Environment
- Agriculture
- Sustainable Living
- Life on land/ water

PARTICIPATION GUIDELINE

- **Participation:** Individual or team (maximum 5 students).
- **Submission:** Submit a 300–500-word idea write-up during registration on Day 1.
- **Presentation:** Shortlisted entries will be presented before the judging panel.

JUDGING CRITERIA

✓ Creativity & Originality ✓ Scientific Understanding
✓ Practicality ✓ Social & Environmental Benefit
✓ Presentation Skills

PRESENTATION GUIDELINE

➢ 3 min presentation • 1-2 min Q&A
➢ Poster/ chart/ simple model or oral presentation.

PRIZES

1st Prize - ₹3,000
2nd Prize - ₹2,000
3rd Prize - ₹1,500

Bring your ideas to life. Innovate, inspire and win!