



# MES ASMABI COLLEGE

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala - 680671

NAAC Re-accredited with A grade(CGPA 3.19)

## PG DEPARTMENT OF PHYSICS

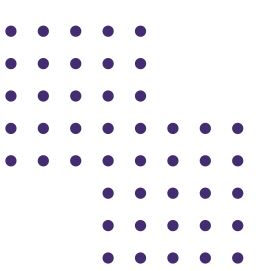
### Programs offered

#### BSc Physics (Honours) 4 years

Specialisation:  
Data Science and Artificial  
Intelligence

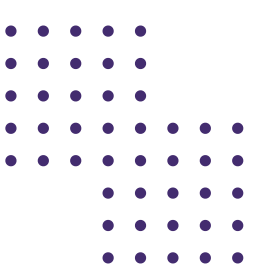
#### Eligibility

Pass the HSE of the Kerala State Board of Higher Secondary Examination or any other examination recognised as equivalent there to with science subjects are eligible for admission.



#### MSc Physics( 2 years)

Specialisation:  
Nanoscience, Biophysics



For Admission enquiries  
Mohammed Areej E M  
Nodal Officer, Admission  
7994072901



A photograph showing students in a physics laboratory. In the foreground, a student is focused on connecting wires to a piece of electronic equipment. Another student stands behind her, observing. In the background, other students are visible, some working at lab benches. The lab has wooden cabinets and various scientific instruments.

# INSPIRING INQUIRY, EMPOWERING MINDS

Started in 1969, the Department of Physics has a rich history of growth and excellence. Department aims to work for evolving a society with scientific attitude and mindset, integrating fundamental human values and ethics.

## WHY CHOOSE US?

### Skill Development

Develop critical thinking and analytical skills through rigorous practical lab sessions and projects. Gain proficiency in data analysis, python programming, robotics, artificial intelligence and advanced laboratory techniques.

### Research Opportunities

Engage in cutting-edge research in fields such as nanotechnology. Collaborate with faculty on groundbreaking projects and publish your findings in top scientific journals.

### Career Guidance & Mentorship

Personalized support for higher studies and career paths. Special coaching for PG entrance examinations and NET/JRF/GATE examinations

### State-of-the-Art Labs

Equipped with modern instruments and advanced facilities for hands-on learning, research, and innovation.

### Industry & Outreach Exposure

Internship & collaboration opportunities with premier research institutes and industries Hands-on training through workshops, industrial visits, and extension activities

## Department highlights

- Highly qualified and experienced faculty members
- New generation courses in curriculum including data science, Artificial Intelligence, Astro and space physics, Machine learning etc.
- Certificate course in robotics
- Internship for third year students
- Opportunity to do project in renowned national and state institutions
- Industrial visit, field visit and study tour
- Four separate laboratories with sophisticated instruments
- Material science research lab
- Astronomical telescope
- Active astroclub
- LED assembling unit
- Workshops, training programs, seminars and conferences
- Collaboration with different state/national industry and institution



# INFRASTRUCTURE FACILITIES

## Material Science research lab

A fully functioning research lab is available for all students those who have a passion to conduct advanced research in material science. We are equipped with necessary infrastructure techniques and experienced faculty members that provide a great environment for research. Our students as well as students of other colleges are able to carry out their project in our college.



## Astronomical telescope

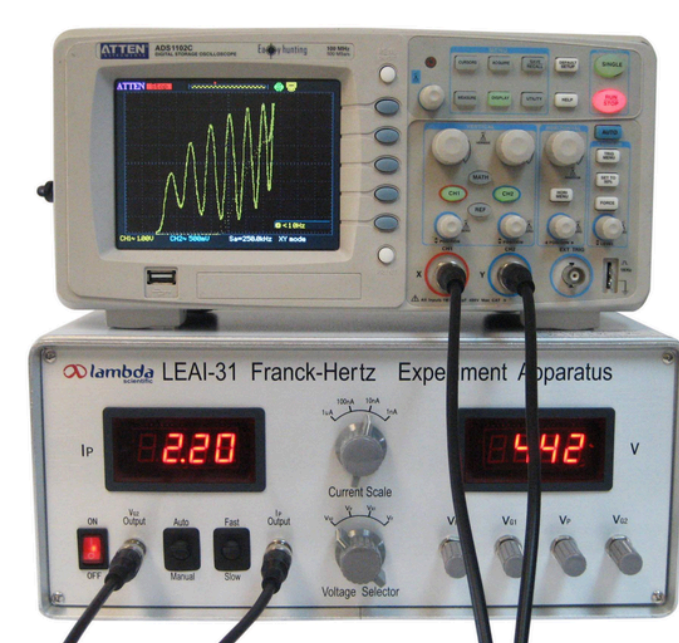
The Department of Physics has its own Sky-Watcher astronomical telescope with filters, allowing detailed celestial observations. The department regularly conducts skywatch programs, providing students with hands-on experience in astronomy.



## General lab

Since laboratory activities plays a major role in making learning process enjoyable and interesting, our department always makes sure that we are providing

- **Optics Labs:** Equipped with high-precision optical benches, lasers, spectrometers, and interferometers to explore the properties of light and optical phenomena.
- **Electronics Labs:** Featuring oscilloscopes, signal generators, multimeters, and various electronic components for hands-on learning in electronics and circuit design.
- **Mechanics Labs:** Including flywheels, pendulums, and other apparatus for studying classical mechanics and dynamics.
- **Thermal Physics Labs:** Furnished with calorimeters, thermocouples, and heat transfer kits to investigate thermal properties and thermodynamics.
- **Modern Physics Labs:** Instruments like Geiger-Müller counters, Hall effect apparatus, Dielectric constants, Frank Hertz experiment etc. are part of our modern Physics lab







Muhsin Abdul Gafoor  
PhD at King Abdullah  
University of  
Science and  
Technology, Saudi  
Arabia



Sreejesh  
Medical Physicist at  
Kuwait  
Ministry Hospital



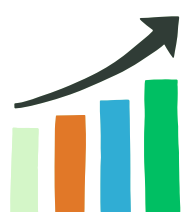
Mohammed  
Jahim T  
PhD at Central  
University of  
Kerala with  
INSPIRE  
Scholarship



Rishwana Parveen  
PhD at University  
of Petroleum and  
Energy Studies,  
Dehradun

## Student support Initiatives

- Mentoring and tutorial sessions
- Awards for class toppers
- Best project award
- Scholarships
- Bridge course
- Certificate courses
- Remedial coaching
- PG entrance coaching
- NET/GATE coaching
- Finishing school
- Book bank
- e books repository



## CAREER OPPORTUNITIES

### B.Sc Physics

- **Bachelor of Education (B Ed)**
- **PG Diploma Courses** (Radiological Physics, Cardiac Lab Technology, Neuro Technology, Remote Sensing, Environmental Technology, Energy Audit and Alternative Energy Source, Plastic Processing & Testing, Industrial Safety etc)
- **M.Sc** (Medical Physics, Nuclear Physics, Astrophysics, Material Science, Photonics, Electronics, Oceanography, Meteorology Forensic Science, Geophysics, Robotics etc)
- **Integrated Ph.D**

### M.Sc Physics

- **Bachelor of Education (B.Ed)**
- **PG Diploma** (Radiological Physics, Cardiac Lab Technology, Neuro Technology, Remote Sensing, Environmental Technology, Energy Audit and Alternative Energy Source, Plastic Processing & Testing, Industrial Safety etc)
- **PG Diploma** in Medical Radiological Sciences (For M.Sc Physics only)
- **Ph.D**
- **M.Tech**

**Research Scientist. Lecturer, Postdoctoral Researcher, Scientific Officer, Medical Physicist, Meteorologist, ATC , Radiation safety officer, Embedded Systems Engineer**

**Join Us for Next-Gen Learning !!!**

**For more details :**  
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