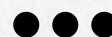





**KAHM UNITY
WOMEN'S
COLLEGE**



DEPARTMENT OF PHYSICS

**K.A.H.M UNITY WOMEN'S COLLEGE
NARUKARA POST, 676122
MANJERI, MALAPPURAM**

**Koramba
UNITY WOMEN'S
SILVER JUBIL**

@unitywomenscollege.ac.in 

DEPARTMENT AT A GLANCE



DEPARTMENT OF PHYSICS

Vision

- To equip students with the ability to understand physical principles and phenomena by integrating theories with experiments, and to contribute to the development of humanity by applying physical principles in daily life.

Mission

- To generate new concepts through practical thinking and the multidimensional applicability of physics in other science programs.
- To instill ethical values and a spirit of social commitment.
- To provide hands-on experience with various experiments and measuring instruments.



DEPARTMENT OF PHYSICS

Objectives

- Equip non-Physics majors with fundamental knowledge of physical principles to better understand and critically evaluate scientific and technological issues in daily life.
- Provide foundational Physics education to students in related disciplines to enhance their understanding of physical concepts relevant to their fields.
- Develop students' abilities to apply logical reasoning, mathematical modeling, and critical thinking to solve physical problems.
- Encourage an appreciation for the elegance and universality of physical laws governing natural phenomena.
- Introduce students to experimental methods and basic research principles, inspiring curiosity and innovation.
- Expose students to tools, techniques, and software commonly used in Physics and related scientific and engineering applications.
- Enable students to diversify their academic profiles and improve their employability in fields where Physics knowledge provides a competitive advantage.



PROGRAMS OFFERED

- Properties of Matter and Thermodynamics (First Semester)
- Semi-conductor Physics and Electronics (First Semester)
- Non-Conventional Energy Sources (First Semester)
- Modern Physics and Nuclear Physics (Second Semester)
- Fundamentals of Optics (Second Semester)
- Fluid Mechanics and Thermodynamics (Second Semester)
- Solid state Physics and Spectroscopy (Third Semester)
- Electronic Communication (Third Semester)
- Optics and Spectroscopy (Third Semester)



DEPARTMENT
OF
PHYSICS

FACULTY MEMBERS



Mr. Muhammed Abdul Hakkeem C
M.Sc,NET



Mr. Sabeer V
M.Sc,B.Ed,NET



**DEPARTMENT
OF
PHYSICS**

MAJOR FLAGSHIP EVENTS AND HIGHLIGHTS:

- Organized an international webinar series
- Organized LED bulb assembling workshops and capacity building workshops
- Celebrated important days related with Physics.
- Conducted student centred activities under Physics club.

RESEARCH & PUBLICATIONS

Number of book chapters published: 2

Infrastructure and Learning Resources

- Full-fledged Physics lab.
- Smart TV with internet connectivity
- Astronomical telescope.

Major Collaborations and MoUs

- Signed MoU with PROMINENT, Calicut .

Major Outreach Activities

- Students constructed LED bulbs and distributed it to poor people in the neighbouring locality and conducted sessions to local people on importance of energy conservation.

Best Practices

Innovative Approaches to Energy Efficiency and Conservation.

Capacity Building Workshops on Home Appliance Maintenance and Computer Hardware Troubleshooting.



FUTURE PLANS

- Introduce a Major/B.Sc. Program in Physics
- Establish a Computational Physics Lab
- Conduct more Science Popularization Events