

JSS COLLEGE FOR WOMEN, CHAMARAJANAGARA

DEPARTMENT OF PHYSICS

About the Department

Knowledge needs Creativity and Creativity needs Diligence. Education plays pivot role in the individual's life and moulds the individual's character. Education empowers individuals with learning, creativity, awareness about society, science, technology and their applications. Education inculcates good human values. Only education can help the younger generation to become the responsible citizens of this nation.

The Department of UG-Physics was established in the year 1967. The Department has two spacious laboratories for mechanical and electronics experiments along with one dark rooms for optics experiments. Both laboratories are well furnished and well equipped with scientific instruments. The Department has experienced and dedicated faculty members. The Department has implemented CBCS (Choice based credit system) scheme as per UGC regulations. Our department has one computers with internet connection and department library with a collection of more than 50 books from Pioneer authors in physics. Physical science students of our college have been placed in various sectors.

Vision of the Department

- Offering quality education to science students.
- Creating a conducive atmosphere with emphasis on academic learning.
- Youth empowerment through higher education.

Mission of the Department

- To create and acquire relevant knowledge along with skill and competencies.
- To undertake research work contributing to the creation of knowledge, skills and its applications for sustainable development.

BEST PRACTICES OF THE DEPARTMENT

- Encouraging Students to attend intercollegiate debate competitions, quiz competitions and science exhibitions.
- Student Seminars.
- Organizing Seminars/Workshops/Special lectures.
- Availing the assistance from PG Department of Physics for UG Academic and Co curricular activities.

Programme: B Sc in Physics PCM, PMCs,

Programme Objective:

- To give need based education in physics of the highest quality at the undergraduate level.
- Perform experiments and interpret the results of observation, including making an assessment of experimental uncertainties.
- Provide an intellectually stimulating environment to develop skills and enthusiasms of students to the best of their potential.
- Attract outstanding students from all backgrounds.

Programme Outcomes:

Students of Physical Science are expect to

- Inculcate scientific thinking and awareness.
- Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena of Physics.
- Acquire the skills in handling scientific instruments in the laboratory, and planning and performing experiments in a proper manner.
- Explain the basic scientific principles and methods.
- Analyze the applications of mathematics to the problems in physics.

Laboratory Facilities

We have a well-equipped and two spacious laboratories which can accommodate more number of Students comfortably.

The students perform experiments related to the following topics:

- Electricity & Magnetism
- Light
- Electronics
- Mechanics
- Heat and Thermodynamics
- Sound
- Nuclear Physics

The laboratory is equipped with sufficient apparatus to provide equal opportunity for all the students. Students at senior level are able to design electronic circuit in the laboratory as part of the extracurricular activities.

Eligibility for Admission

PUC with Physics, Mathematics as Major subjects and must have obtained a minimum of 40% of marks in all the subjects.

Learning Resources

- Department Computer lab with internet facilities
- Central Library with Reference Books , Journals and
- INFLIBNET services
- E- Journals, CD`s
- E-Learning Resources
- Department Library
- Laboratory Experiments
- Special Lectures, Lecture Workshops, Seminars