



ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
UNIVERSITY OF MYSORE

DEPARTMENT OF STUDIES IN PHYSICS

Manasagangotri, Mysuru- 570 006



ABOUT THE DEPARTMENT

The department of studies in Physics is one of the major departments carrying out research in various areas of physics. It was established in the year 1960 in the Manasagangotri campus. Prof. S Chandrashekhar, FRS was the first chairperson of this department who laid the foundation for the research culture. This department was one among the fewest in the country to get identified under the COSIP leadership program and it was successfully carried out for a decade (1969-79). The department is funded by DST-FIST and DRS-SAP. The Department has been serving as the National Center for Single Crystal X-ray Diffraction Studies which is being utilized by researchers from all over the country regularly. Various agencies such as ISRO, DST, DAE, UGC etc. are funding to enhance the research and academic activities. The Government of Karnataka has identified this Department as the Department of Advanced Studies. ISRO, Bangalore has funded to offer Atmospheric Physics as an elective paper for M. Sc.

Academic Programmes M.Sc. in Physics

The four semester M.Sc. programme offered by the department attracts many young students to pursue their career in various fields of Physics. Flexible Choice Based Credit System (FCBCS) and Continuous Assessment Grading Pattern (CAGP) are being followed. In addition to the compulsory core subjects, the students are at liberty to opt for soft core papers offered by this department and also open elective papers offered by other departments to obtain their degree. Students can choose inter-disciplinary, intra-disciplinary and skill-based courses. That facilitates to bench mark our courses with best international academic practices.

Eligibility: B.Sc. with Physics and Mathematics as Major/Optional subjects or B.Sc. Ed. degree of Regional Institute of Education with Physics as a special subject.

Ph.D. Program

In addition to class room teaching, the faculty are also actively involved in guiding students for their doctoral degrees. The Department offers Ph.D. Program in Physics with course work.

Eligibility: Candidates having Master's degree in Physics with a minimum of 55% marks or equivalent Cumulative Grade Point Average (CGPA) or an equivalent Grade and qualified for UGC/CSIR/JRF/NET/K-SET/GATE/PhD Entrance Exam. However foreign students are exempted from PhD Entrance Exam.

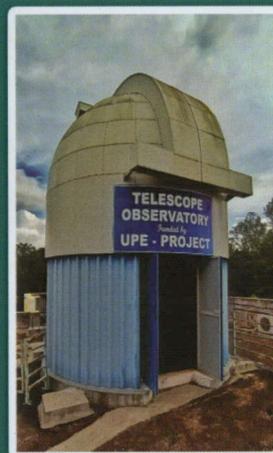
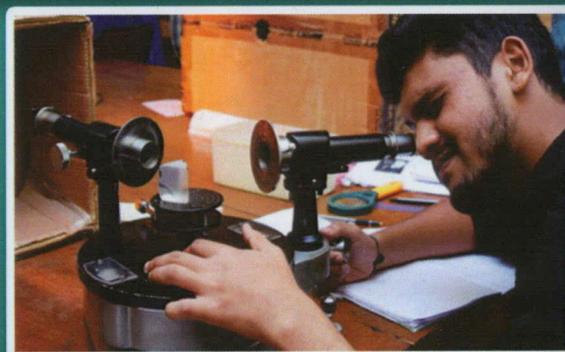
Thrust Areas of Research

The major areas of research are

- Atmospheric Physics
- Condensed Matter Physics
- Environmental Radiation
- Nuclear Physics
- Structural Biology
- Theoretical Physics

Outreach Activities

- Physical society
- Popular public lectures by faculty
- Telescope observatory facility for the public
- Physics exhibitions
- Space awareness programmes
- Participation in science programs through CDSS, UOM



Good practices

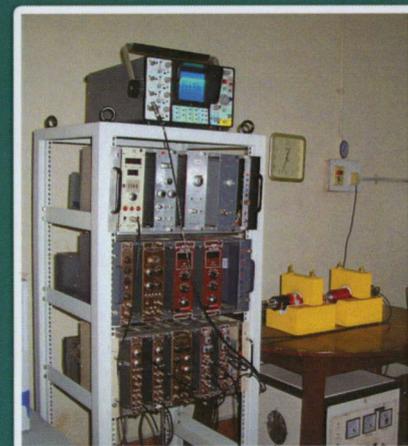
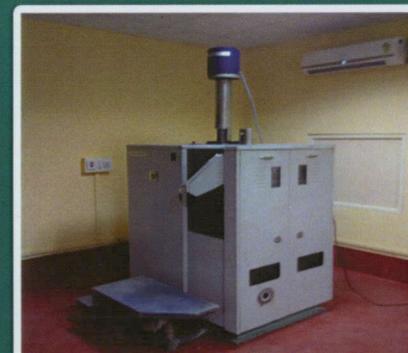
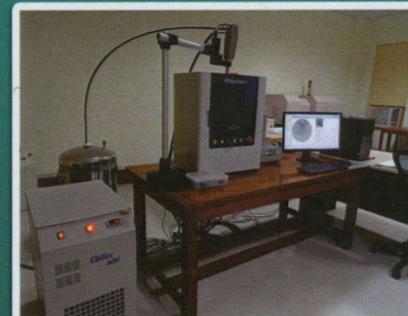
- 40 kVA of Electricity is generated through the rooftop Solar Panels.
- One of the first few departments to opt for FCBCS scheme which was introduced by the University in 2017.
- Research publications in reputed journals.
- Extensive research work with several funded research projects.
- Students are encouraged to take projects as a part of curriculum. Special lectures on emerging topics from distinguished scholars.

Ethics for research

- To encourage plagiarism prevention policy.
- Radiation Protection is well regulated using radiation badges from AERB.

Future plans of the department

- To restructure the academic programme in tune with National Education Policy.
- Faculty to be encouraged to offer papers under SWAYAM (MOOCS).
- To enhance interdisciplinary and multidisciplinary research.
- Collaboration with international and national research institutes/Universities.
- Encourage collaborations with industries.
- Resident foreign faculty under GYAN/ University funding to be hired.
- Adjunct faculty (Indian/Foreign) as well as Inspire faculty/fellows under national and international fellowships.



Major infrastructure available for research

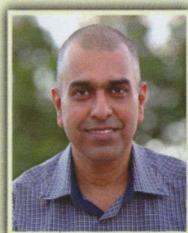
Sl. No.	Name of the Instrument
1.	Aerosol monitor
2.	Gamma chamber
3.	Hioki LCR Meter (AC Measurements)
4.	Keithley Dual Source Meter
5.	Powder X-ray diffractometer
6.	Single crystal X-ray diffractometer
7.	Positron annihilation spectrometer
8.	HPGe Detector

Research Output

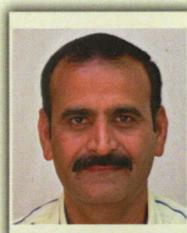
	Total from inception	During 2014-2019
Ph.D.s	197	37
Publications	1679	388
National Journals	30	14
International Journals	1649	374
H index		14
Citation		944

Major Research Projects during 2014-19 is 12 (Total Rs. 347 lakhs)

Faculty Profile



Prof. Sridhar M.A.
Professor
Specialisation: Condensed Matter physics, X-ray crystallography



Prof. Lokanath N.K.
Professor (Director, CDC and PMEB)
Specialisation: Condensed Matter Physics, Protein crystallography, Structural biology



Prof. Gnana Prakash A.P.
Professor (Registrar (Evaluation), UoM)
Specialisation: Condensed Matter Physics, Semiconductor Devices, Radiation Effects,



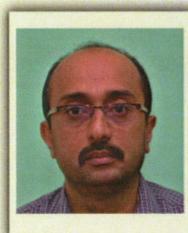
Prof. Chandrashekara M.S.
Professor
Specialisation: Nuclear Physics, Environmental Radiation and Atmospheric Physics



Prof. Krishnaveni S.
Professor
Specialisation: Nuclear Physics, Gamma ray Interactions, Radiation Physics



Dr. Ravikumar H.B.
Associate Professor
Specialisation: Nuclear Physics, Positron Annihilation, Studies on Polymers, Polymer Blends and Composites



Dr. Mahendra M.
Associate Professor
Specialisation: Condensed Matter Physics, X-ray Crystallography, Structural Biology

The academic programme is supported by qualified guest faculty.

Former Faculty

Prof. Mallesh K.S.
Professor (Superannuated on 29-06-2019)
Specialisation: Theoretical Physics

Prof. Umesh T.K.
Professor (Superannuated on 30-11-2019)
Specialisation: Nuclear Physics, Gamma ray Interactions, Compton Profiles.

Prof. Paramesh L.
Professor (Superannuated on 31-12-2015)
Specialisation: Nuclear Physics, Environmental Radiation and Interaction of gamma radiation with thick samples

Prof. Somashekar R.
Professor (Superannuated on 31-03-2015)
Specialisation: Condensed matter Physics, X-ray diffraction of fibres, Optical properties of crystals and Liquid crystals

Prof. Revannasiddaiah D.
Professor (Superannuated on 31-05-2014)
Specialisation: Condensed Matter Physics, X-ray Crystallography, Liquid Crystals and Thermoluminescence

Contact :

The Chairperson

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