

## **PG DEPARTMENT OF PHYSICS**

**The PG department of Physics** was established in 2010. It is currently headed by Dr. Anita Rani (Assistant Professor in Physics). This is covered under **STAR COLLEGE SCHEME of DBT, New Delhi, Ministry of Science and Technology, New Delhi, GOI since 2022**. The aim of the department throughout its survival for more than 15 years has been to endow with up to date instruction to our students to meet the requirement of trained manpower in Physics for teaching, research, engineering and other vocational courses. It has established itself as a center of excellence with well-qualified faculty and modern teaching, computer and research laboratories. The two teachers in the department have a doctorate degree, three are CSIR-NET qualified while two teachers have masters in philosophy. The faculty is highly competent as our three faculty members have qualified PSTET. The department has been stimulating undergraduate and postgraduate teaching programs through various teaching methodologies that includes a series of lectures through charts, transparencies, LCDs, models, slides, video lectures ([https://www.youtube.com/channel/UC\\_sCsbvBksljXV2LQkFszZQ](https://www.youtube.com/channel/UC_sCsbvBksljXV2LQkFszZQ)), extension lectures, practical demonstrations, etc. The department is well known for organizing the various seminars (ERTP-2019, sponsored by DCDC,PU Chandigarh), workshops (NSAR-2019 in collaboration with IANCS-BARC, Mumbai), and camps (DST-2019,sponsored by DST, New Delhi), Various competitions, training programs for students and faculty members which were uploaded under tab DBT Star College Scheme of the college website. The department offers under-graduate programs in non-medical streams while it offers higher studies (masters) in physics with flexible learning and academic excellence. Most of the students qualify are admitted to a masters in prestigious institutions while others are serving on good ranks in various government and private sectors in India and abroad.

**Library** The department has a well-stocked Library with nearly 2500 books and many regular scientific journals.

## Physics laboratory

PG Department of Physics has well-equipped under-graduate and post graduate laboratories. In addition, there is separate Optics laboratory for carrying out different experiments. Under-Graduation lab contains large number of equipments related to Physics experiments like Spectrophotometer, G.M. counter ,Oscillators, C.R.O., DSO, Pendulum ,sextant ,young's modulus ,Poisson ratio , Desauty Bridge , Carey foster bridge, PN junction, Zener diode, Anderson bridge, hall effect, modulation and demodulation, Milliken Oil drop Method, Demonstration of Van-dee Graff Generator etc.

**Post-Graduation lab** contains equipments like astable and monostable multivibrators, RLC resonance apparatus, Semiconductor band gap, flip flops, logic gates, experimentation with diode, Frequency modulation and demodulation, amplitude modulation and demodulation, ultrasonic measurements, clipper and clamper, four probe apparatus, Colpitt oscillator, hall effect, Planck's constant, Fresnel biprism, sodium lamp and power supply, hybrid parameters, hysteresis loop, electronic kits etc.

To attain better understanding of optics and laser, there is separate **dark room**. Here all apparatus like Polarimeter, laser Sources, Planck's constant, spectrometer, flashing and quenching of neon bulb, hydrogen gas discharge tube, ionization potential of mercury, Michelson Interferometer etc. are available.

## Computer Laboratory

To carry out the research related activities like review of research papers, minor research projects, Department has well establish computer lab. Software's like Proteus software, Origin software, C, C++ had been installed in computers to perform hands on practices on electronic circuits, to draw the graphs and solve problems of physics experiments on C and C++.

## Faculty Profile

In faculty Profile Keep the data of following faculty members and remove other from the department

1. Dr. Anita Rani
2. Dr. Prabhjeet Kaur
3. Ms. Rajveer Kaur
4. Ms. Sandeep Kaur

Newly add faculty members

1. Ms. Jeevanjot Kaur
2. Ms. Ravneet Kaur

