

Departmental Profile: PHYSICS

1. About the Department:

The department of Physics was established in 1962 under the guidance of Dr. D.S. Supe which is now one of the best well-equipped center for undergraduate studies in this part of India and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University. Department aims to enable students to enjoy the subject and to stimulate an interest in the social and economic implications of Physics in society. It has three separate laboratories including a dark room containing more than 100 experimental set up. Every year it caters around 300 UG students for in-depth understanding of the subject.

Teaching faculty members are recruited according to UGC norms of qualification and the State Government rules. The department presently has six full time faculty members, three of whom are PhD holders and are active researchers in various areas of Physics and Materials Science. Two faculty members are recognized PhD guides in various areas of experimental and theoretical Physics. They have publications in peer reviewed journals and conference proceedings. Some of them have participated in International conferences held in India and abroad. Faculty members are actively involved in the syllabus framing and restructuring at the University level.

Apart from traditional method of board teaching, modern ICT enabled methods using the Power Point presentations on LCD projector and audio-video educative material available as CDs and material accessed from the internet, is liberally utilized by the faculty members. Students are also encouraged to develop presentations using these resources.

Highlights of the Department:

- Well-equipped spacious laboratories with computer and internet facilities.
- Departmental Library.
- **Major Instruments** : Digital Ultrasonic Pulse Echo Velocity Meter, Hall Effect Apparatus, Magnetic Susceptibility apparatus, Four probe Apparatus, Dielectric Constant and Curie Temperature apparatus, Function Generator, Fabry-Perrot Apparatus, digital polarimeter, RF Generator, Nano & Pico Ammeter, lux meter, Dual Trace C.R.O.
- Hands on training via workshops to increase the practical skills of the students.
- Guest Lectures and Educational trip.
- Coaching for JAM and other competitive exams (Co-curricular).
- Recognised center for National Graduate Physics Examination (NGPE), an IAPT activity
- Participation of students in inter and intra-college poster, seminar, quiz, debate etc. competitions

2. **Course Offered:**UG: Bachelor of Science affiliated to RTM Nagpur University

3. Research Programme:

Three UGC sponsored minor research projects have been completed by faculties. Projects are also given to students who desire to excel in the field of basic science. In collaboration with department of chemistry, dissertation work of PG students (Chemistry) in the field of nanomaterials under the guidance of faculty members of the department is also carried out.

4. Activities:

- Organization of renowned VUPTA seminar competition in Physics
- Organization of State level Physics Seminar Competition (Scintillation 15)
- Organization of National Conference and Workshop on Nanotechnology (Innervate 16)
- Participation of students in various intercollege competitions (Seminar, quiz, debate, projects)
- Student Internship programme in some recognised research institute/ departments
- Skill oriented Workshops for students
- Weekly Cluster meet

5. Academic Achievement of the Students:

Many of our students are working as scientist in reputed research institutes of India. Some students have got the prestigious Inspire fellowships (DST). Students continue to excel in the toppers list of RTM Nagpur University.

6. Teaching Staff:

Name	Qualification	Designation	Specialization	Experience
Shri. R.V.Chouguley	M.Sc.	Associate Professor	Electronics & Solid State Physics	30 years
Shri. R.G. Jadhao	M.Sc.	Associate Professor	Electronics & Spectroscopy	29 years
Dr. P.D. Wankar	M.Sc. Ph.D.	Associate Professor	Electronics & Solid State Physics	28 years
Dr. S.H. Bagade	M.Sc., Ph.D., SET	Associate Professor	Digital Electronics & Solid State Physics	14 years
Dr. R.D. Sontakke	M.Sc., Ph.D.	Assistant Professor	Electronics & Acoustic	10 years
Mr. G.V. Lakhotiya	M.Sc., SET, GATE	Assistant Professor	Material Science, Nanomaterials	3 Years

7. Non-teaching Staff:

S.N.	Name of the Staff	Designation	Length of service in years
1	Shri.A.G.Bhaiya	Lab. Assistant	7
2	Shri.V.M.Zodape	Lab. Attendant	23
3	Shri.K.M.Chavan	Lab. Attendant	23
4	Smt.V.M.Gaikwad	Lab. Attendant	13
5	Shri.A.V.Dukare	Lab. Attendant	11

8. Photo Gallery: