



Department of Physics



Code	507			
Department	Physics			
Courses run / Programs	M.Sc.; Ph.D.			
Intake at Entry level for M.Sc.	Host Univ	Other Univ	F/NRI	Total
	21	06	03	30
Eligibility for M.Sc.	Physics at Graduate Level			
Specialization / Elective if any	<p>CBSC Semester pattern with GIC & Elective started from session 2010-11(Old) revised now to be implemented from 2012-13</p> <p>Specializations are :</p> <ol style="list-style-type: none"> 1. Digital techniques & Microprocessor programming and Interfacing 2. Condensed Matter Physics 3. Analog and Digital Communication 4. Photonics <p>General Interest Courses (Interdisciplinary Elective) are :</p> <ol style="list-style-type: none"> 1. Network Theorems and Solid State Devices 2. Laser Fundamentals & Applications 3. Advance Microprocessors & Microcontrollers 4. Nano-science and Nanotechnology 			
Head & Faculty with Designation	<p>Dr. S. K. Omanwar, Professor (HAG) & Head Dr. G. G. Muley, Assistant Professor Dr S.A. Waghuley, Assistant Professor Dr. K.M. Alti, Assistant Professor</p>			
Total Fees in Rs.	Full fees	GOI		
Host Univ. Students	3760.00	760.00		
Other University (Within State)	9960.00	960.00		
Other University (Out of State)	10015.00	---		---
Foreign Students &NRI	\$800	---		---

Highlights:

- Newly constructed Building of carpet area 47260 SQFT with all facilities.
- This department has excellent learning resources including well equipped laboratories.
- Seminar presentation, Review writing and project/dissertation training is our specialty.
- Department is actively involved in the research in frontline areas. Faculty publishes articles in journals having very high standard which is indexed in SCOPUS (238 papers with 1660 citations) and Thomson and Reuters.
- Students from this departments are placed in national labs and reputed institutions.
- Dr. S. A. Waghuley Received “Utkrusta Sewa Gaurav Puraskar” May-2017 under University Teachers from SGBAU, Amravati
- Dr. S. K. Omanwar received “Fellow of Maharashtra Academy of Science” October 2016, NCL, Pune and “Dr. B. T. Deshmukh Best Researcher Award” February-2016, LSI, India

Research areas:

Luminescence and its applications, Lasers and its applications, Non Linear optical (NLO) crystals/materials and applications. Optical Biosensors, Gas sensors, conducting gases, conducting polymers, Quantum dots, acoustical properties of liquid mixtures, nano-composites, thin films, NLO properties of nano-particles etc.

Students Performance:

- NET/SET etc qualified students:39
- Merit students : 18 till date
- Gold Medalists :3
- Ph.D. Awarded :44
- Patent filed : 02
- Patent in process : 05

Important Activities:

- i) Silver Jubilee Alumni Celebrations-25 March 2017
- ii) National Conference on “Lasers and Advanced Materials”(29 to 30 May, 2012)
- iii) Luminescence and its Applications (7 to 9 February, 2006)
- iv) Lasers and their Applications (28 to 30 January, 2004)
- v) National Workshop on Structural & Electrical Characterization of Materials. (1998)
- vi) One orientation program, One short term course and one refresher course in association with HRC, SGBAU, Amravati.

Projects ongoing:

- ICMR, New Delhi, Short-Listed ID 2014-2778 Dr. S. K. Omanwar PI Total Outlay Rs. 46.348 Lakh
- RGSTC Research project for the period 2017-2020 to Dr. Anita Patil (PI), Dr. G.G. Muley (Co-PI), H. Paikrao (Co-PI). Total outlay Rs. 34.76 Lakh
- BRNS, DAE, Govt. of India 2016-2018 Dr. S. K. Omanwar Mentor & Dr. G. V. Korpe PI Total outlay Rs. 27.43 Lakh
- DST-SERB EEOES Research Project funded to Dr. G. G. Muley for the period 2013-2017 Total outlay Rs. 30.00 Lakh

Projects completed:

- DST-SERB Fast Track Research Project funded to Dr. G. G. Muley for the period 2013-2016 (Total outlay Rs. 16.536 Lakh)
- Department is sponsored by DST-FIST 2010-2015 (Outlay: Rs. 36.00 Lakh)
- UGC-MRP funded to Dr. G.G. Muley for period 2012-2015. Outlay Rs. 9.583 Lakh
- DRDO research project funded to Dr. G.G. Muley for the period 2011-2014 (Outlay Rs. 21,01,341/-)
- DAE-AERB funded MRP to Dr. S. K. Omanwar (Outlay Rs. 18.,55 Lakh)
- UGC funded MRP to Dr. S.K. Omanwar for the period 2010-13 (Outlay Rs 10.173 Lakh)
- UGC Funded Minor Research project to Dr.S.A.Waghuley for the period 2010-12 (Outlay Rs. 1.55 Lakh)
- UGC Innovative program *P.G. Diploma in Photonics* (Approved 2013-18) **Returned.**
- DRDO funded MRP to Dr. B.H. Pawar and Dr. G.G. Muley. **Returned.**



