

GOVT. DIGVIJAY AUTONOMOUS PG COLLEGE RAJNANDGAON DEPARTMENT OF PHYSICS (2022-23)

PROGRAM OUTCOMES (PO)

* The Graduates of the department will attain:

PO1: The undergraduate training in physics is aimed at providing the necessary inputs so as to set forth thetask of bringing about new and innovative ideas/concepts so that the formulated model curricula in physics becomes in tune with the changing scenario and and and rapid advancements and multi disciplinary skills, societal relevance, global interface, self sustaining and supportive learning.

PO2: The Thermodynamic & Statistical paper is aimed at preparing the background of thermodynamics & statistical physics essential for any advanced study of physics of condensed matter & radiations. The Optics & Wave and Acoustics paper is mainly concerned with a course on geometrical & physical optics & the laser physics. It deals with important phenomenon like interference, diffraction & polarization with stress on the basic nature of light. It also introduces the basics of laser physics with some of it's important applications.

PO3:TheRelativity,quantum mechanics,atomicmolecular and nuclear physic paper is aimed at preparing the backgroundof modern physics which includes the relativistic & quantum ideas mainlyconcerned with atomic, molecular & nuclear physics. It consists an essential pre-requisite for better understanding of any branch of Physics.

The Solidstate physics, solid state devices and electronics theory paperis mainly concerned with Solid State Physics, Solid State Devices & Electronics. This course is quite important from the applicational aspects of modern electronic devices. It also forms the basis of advance electronic sincluding communication technology to be covered at higher level.

* The Post graduates of the department will attain:

PO1: The benefits of career-oriented course can be extended to regular students. Education plays very vital in each and every person's life.

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PO2: An ability to design, simulate and conduct experiments, as well as to analyze and interpretdata including hardware components.

PO3: An ability to function on multi-disciplinary teams.

Head of The Physics Depth Govt. Digvijay College RAJNANDGAON (C.G.)



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PROGRAM SPECIFIC OUTCOMES (PSO)

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PSO1: It is desire that undergraduate i.e. B.Sc. level besides grasping the basic concepts of physics shouldin addition have broader vision. Therefore, they should be exposed to societalinterface of physics and role of physics in the development of technologies.

PSO2: Present course is aimedto provide ample knowledge of basics of physics which are relevant to theunderstanding of modern trends in higher physics. The experiments are basedmostly on the contents of theory papers so as to provide comprehensive insight of the subject.

PSO3: Acquire

the state of the first and the state of the (i) A fundamental/systematic or coherent understanding of the academic field of Physics, its different learning areas and applications in basic Physicslike, Nuclear and Particle Physics, Condensed matter Physics, Atomic and Molecular Physics, Mathematical Physics, and its linkages with relateddisciplinary areas / subjects like Chemistry, Mathematics, Life sciences, Environmental sciences, Computer science, Information Technology.

PSO4: Skillsin areas related to one's specialization area within the disciplinary/subjectarea of Physics and current and emerging developments in the field of Physics.

* The Post graduates of the department will attain:

PSO1: The aim of college isto bring the quality education to the student in every aspect of life with viewand looking at the future and of the M.Sc. in Physics.

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PSO2: The ability to analyze, design and implement application specific electronic system for complex circuit problems for analog, digital domain, communications and signal processing applications by applying the knowledge of basic sciences, Physical mathematics and physical fundamentals.

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COURSE OUTCOMES (CO)

The Graduates of the department will attain:

CO1: To introduce thebasics of mechanics and create problem solving approach in mechanics. Learn thebasics of properties of mater, How solid and liquid mater behaves and givecharacteristics in physical changes. To learn the effect of electric field andmagnetic field in instrumentation and get theoretical as well as experimentalknowledge of it. To Learn the fundamental ideas of electrostatics and magnetostatics and to apply them to understand general phenomenon. To learn thebehavior of electrical circuit with different elements and enhance the capability of analytical study in electrical devices.

CO2: To become familiar withvarious concept and phenomena in thermodynamics. To Clear understanding of advanced thermodynamic processes and develop problem solving approach. To introduce the basic concept of statistical mechanics and expand the knowledge to the optimum level so that they must understand the theoretical phenomenon inmaterials. To learn about waves and oscillations and apply them to understand the theory and application of it. To learn advance level in optics and understand the working of common optical instruments. Detailed knowledge of interference, diffraction and polarisation with problem is provided. To learnthe concept of laser system and different type of laser with their applications.

CO3: To know the origin of quantum mechanics and necessity to explain various effects. To learnfundamental concepts of quantum mechanics and approach to the complex problems that can be explained. To get the qualitative idea of atomic and molecular spectraand related effects like Raman effect and Zeeman effect. To understand the phenomenon of Nuclear physics and know the working and theory of nuclear reactor. To know the basics of elementary particles. Basics of Solid statephysics is to be learned to understand the electrical and magnetic properties of solid materials. To learn the basics of solid state devices like diode and transistor and understand their working and applications. To learn Cprogramming basics and apply it in general mathematical cases.

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