

**M.V.R. DEGREE COLLEGE**  
(Affiliated to Andhra University)  
An Institution of Priyadarshini Educational Academy)  
**NAAC ACCREDITED COLLEGE**

Dr.V.Rama Rao, M.A.,Ph.D.,  
Secretary & Correspondent

Dr.A.Balakrishna,M.Sc.,Ph.D.,  
Principal

**DEPARTMENT OF PHYSICS**

The Department of Physics, MVR DEGREE College seeks to serve Bsc Program students interested in careers related to Physics. The department offers Physics in THREE core combinations MPC, MPCS AND MPS of Bsc. program. (2020-2021) as per revised syllabus of APSCHE. In order to cater to the diverse interests of students and employers, a total of 05 theory and 05 practical courses are offered as part of Physics domain in the two combinations.

**PROGRAMME SPECIFIC OUTCOMES.**  
**STUDENTS AFTER GRADUATING WITH PHYSICS AS ONE OF THE CORE**  
**SUBJECTS WILL:**

**PSO 1:** Be able to demonstrate basic knowledge in the core areas of physics (classical mechanics, waves and oscillations, optics and laser, thermal radiation physics, electricity, magnetism, modern physics).

**PSO 2:** Be versatile in laboratory technique in using the apparatus.

**PSO 3:** Understand the theoretical concepts of physical and chemical properties of materials and the role of mathematics in dealing with them in a quantitative way.

**PSO 4:** Analyse the concepts of mathematics, physics and chemistry and understand the relation among them like physical chemistry, mathematical modelling of physics and chemistry problems.

Skills needed to handle instruments and adopt lab procedures to study physical chemical properties of materials.

**PSO 5:** Mathematical, numerical techniques required to model them.



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**PSO 6:** Ability to interlink the skills and knowledge in mathematics, physics and chemistry and develop an aptitude to address the problems in biophysics, stock market analysis.

**PSO 7:** Understand the concepts of vector spaces, group theory, quantum mechanics, optical, thermal, electrical, mechanical properties of a materials, probability, algorithm design, data base.

**PSO 8:** Analyse the concepts of mathematics, physics and computers science able to relate them in numerical programming of models of physical systems.

**PSO 9:** Acquire the skills to study the properties of materials, implementation of numerical algorithms by using various.

**PSO 10:** Ability to interlink the skills developed and acquires an aptitude to address the problems in simulations of material properties, web and mobile app development.



*Attested*  
*[Signature]*  
PRINCIPAL

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