

Program Educational Objectives (PEOs),  
Program Outcomes (POs)  
&  
Program Specific Outcomes (PSOs)  
(2023-2024Batch)  
(B.Sc.Sem.-3)



**THE DEPARTMENT OF PHYSICS**

**THE H. N. S. B. LTD. SCIENCE COLLEGE**  
**N.H. – 48, MOTIPURA,**  
**HIMATNAGAR (S.K.)**  
**GUJARAT (383001)**  
**[www.physicshmt.wordpress.com](http://www.physicshmt.wordpress.com)**

### **Vision:-**

**The Department of Physics strives to provide an intellectual environment that fosters the search for the new knowledge in highly dynamic techno -world through its quality education.**

### **Mission:-**

**The Department focus is on the comprehensive, interdisciplinary teaching in applications of Physic, so as to enable learning and applying new technique in dynamic techno -world as the field evolves.**

## **Program Educational Objectives ( PEOs )**

*The graduate will*

|              |  |
|--------------|--|
| <b>PEO-1</b> | Graduates will develop the skills to handle new techniques applied in dynamic techno-world where they have to serve themselves.  |
| <b>PEO-2</b> | Graduate will use their course as a training ground to develop their positive attitude, skills which will enable them to become a multi facet personality shining in any chosen field. |
| <b>PEO-3</b> | Graduate will generate the creativity and acquire the knowledge to solve the complex problems due to practical education.  |
| <b>PEO-4</b> | Graduatedevelop teaching skills, subject knowledge in the course of their study which will help them to shine in various field including education.                                    |

## **Program Outcomes(POs)**

|             |   |
|-------------|---|
| <b>PO-1</b> | Acquireability to understand the complex technique applied in various devices.    |
| <b>PO-2</b> | Develop skill to think critically on abstract concept of Physics and Electronics. |
| <b>PO-3</b> | Acquire the ability to think independently for lifelong learning.                 |
| <b>PO-4</b> | Formulate and develops scientific argument in logical manner                      |
| <b>PO-5</b> | Acquire knowledge to design and executing of the experiment.                      |

## **Program Specific Outcomes(PSOs)**

|              |   |
|--------------|---|
| <b>PSO-1</b> | Understandbasic concepts of Physics.  |
| <b>PSO-2</b> | Develop the skill to handle modern scientific devices.  |
| <b>PSO-3</b> | To integrate knowledge and skills of understanding scientific world that will sustain an environment of learning and creativity among the students with an assurance for good career. |
| <b>PSO-4</b> | Identify fundamental concept of electronics and mechanics.  |

## **Course Outcomes (COs)**

| <b>Course</b>                           | <b>Outcome</b>   |
|---|--|
| <b>Physics Paper-3<br/>CC-PHY-301</b>   | To enable the students to learn the Heat & Thermodynamics, Spectroscopy- Modern Physics and Crystal structure. |
| <b>Physics Practical<br/>CC-PHY-301</b> | Students will gain an understanding of criteria of Optics, Fluid and Electronics.                              |
| <b>Physics Paper-4<br/>CC-PHY-302</b>   | To enable the students to learn the Magneto statics, Electronics and Optics.                                   |
| <b>Physics Practical<br/>CC-PHY-302</b> | Students will gain an understanding of criteria Electronics and Digital Electronics.                           |