

Program Educational Objectives (PEOs),  
Program Outcomes (POs)  
&  
Program Specific Outcomes (PSOs)  
(2023-2024Batch)

B.Sc. Sem.-4



**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.

**PSO-4**

Identify fundamental concept of electronics and mechanics.

**Course Outcomes (COs)**

<b>Course</b>	<b>Outcome</b>
<b>Physics Paper-5</b> <b>CC-PHY-401</b>	To enable the students to learn the Mechanics, Special theory of Relativity, Nuclear Physics and Plasma Physics.
<b>Physics Practical</b> <b>CC-PHY-401</b>	Students will gain an understanding of criteria Mechanics, Optics and X-rays.
<b>Physics Paper-6</b> <b>CC-PHY-402</b>	To enable the students to learn the Statistical Mechanics, Quantum Physics and Digital electronics.
<b>Physics Practical</b> <b>CC-PHY-402</b>	Students will gain an understanding of criteria Electronics and Digital Electronics.