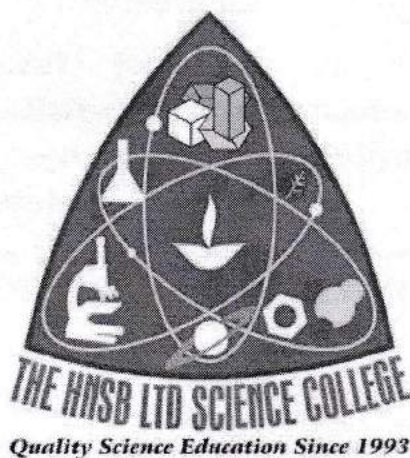


**Program Educational Objectives (PEOs),
Program Outcomes (Pos)
&
Program Specific Outcomes (PSOs)
(2020 - 2021 Batch)**



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**

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

PEO-1	Graduates will develop the skills to handle new techniques applied in dynamic techno-world where they have to serve themselves.
PEO-2	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.
PEO-3	Graduate will generate the creativity and acquire the knowledge to solve the complex problems due to practical education.
PEO-4	Graduate develop teaching skills, subject knowledge in the course of their study which will help them to shine in various field including education.

Program Outcomes(Pos)

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

Program Specific Outcomes(PSOs)

PSO-1	Understand basic concepts of Physics.
PSO-2	Develop the skill to handle modern scientific devices.
PSO-3	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)

Course	Outcome
Physics Paper-1 CC-PHY-101	Recall the principles and basic equations and apply them to solve problems. Understand the concepts and significance of Scalar and Vector Fields. Understand the concepts of S.H.M. Learns and recalls the basic concepts of circuits and its functioning. Learns and recalls the basic principles and working of various rectifier and filter circuits.
Skill Base Subject Entrepreneurial and Leadership Development EC - 1	To enable the students to develop Self Skill in business and to develop leadership for upcoming life.
Skill Base Subject Instrumentation Measurement & Analysis ES - 01	To enable the students to gain basic knowledge of different Units of Physics and measurement techniques.
Physics Practical CC-PHY-101	Students will gain an understanding of criteria of Optics, Electronics and Mechanics.
Physics Paper-2 CC-PHY-201	To enable the students to learn the Mechanics, Optics, Electrostatics and Waves.
Skill Base Subject Environmental Science EC - 03	To enable the students to develop awareness of Environment and how to know and use it.
Skill Base Subject Electronics Circuit, Element & Energy Source ES - 02	To enable the students to understand circuit symbols and basic components of electronics circuit.
Physics Practical CC-PHY-201	Students will gain an understanding of criteria of Optics, Electronics and Mechanics.
Physics Paper-3 CC-PHY-301	To enable the students to learn the Heat & Thermodynamics, Optics, Special theory of Relativity and Crystal structure.
Physics Practical CC-PHY-301	Students will gain an understanding of criteria of Optics, Fluid and Electronics.
Physics Paper-4 CC-PHY-302	To enable the students to learn the Magneto statics, Electronics Special theory of Relativity and Mathematical Physics.
Physics Practical CC-PHY-302	Students will gain an understanding of criteria Electronics and Digital Electronics.
Physics Paper-5 CC-PHY-401	To enable the students to learn the Crystal structure, Quantum Physics, Advance Optics and Plasma Physics.
Physics Practical CC-PHY-401	Students will gain an understanding of criteria Mechanics, Optics and X-rays.
Physics Paper-6 CC-PHY-402	To enable the students to learn the Electromagnetic, Digital electronics, Nuclear Physics and Modern Physics.
Physics Practical CC-PHY-402	Students will gain an understanding of criteria Electronics and Digital Electronics.



Convener

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H.N.S.B. Ltd. Science College
Himatnagar



Principal

The H.N.S.B. Ltd. Science College
Himatnagar-383001, Dist. S.K.



Head