

**Program Outcomes (Pos)  
Program Specific Outcomes (PSOs)  
& Course Outcomes  
For  
BOTANY  
( 2021- 2022 )**



**DEPARTMENT OF BOTANY  
THE H. N. S. B. LTD. SCIENCE COLLEGE  
N.H. - 48, MOTIPURA,  
HIMATNAGAR ( S. K. )  
GUJARAT ( 383001 )**

## Program Outcomes(Pos)

<b>PO-1</b>	Critical Thinking: To mould a responsible citizen who is aware of most basic domain-independent knowledge, including critical thinking and communication.
<b>PO-2</b>	Social interaction: Elicit views of the others mediate disagreement and help reach conclusions in group settings.
<b>PO-3</b>	Environment and sustainability: Understand the issues of environmental contexts and Sustainable development.
<b>PO-4</b>	Ethics: Students will demonstrate and understanding of major concepts in all disciplines of Botany.

## Program Specific Outcomes (PSOs)

<b>PSO-1</b>	Understand the nature and basic concepts of cell Biology, Biochemistry, Taxonomy, Anatomy, Ecology, cryptogams, Genetics Ethno botany and plant Physiology.
<b>PSO-2</b>	Analyze the relationships among animals, plants and Microbes
<b>PSO-3</b>	Perform Procedures as per Laboratory standered in the areas of Biochemistry, Taxonomy, Anatomy, Ecology, cryptogams, Genetics Ethno botany and plant Physiology.

## Course Outcomes (COs)

<b>Course</b>	<b>Outcome</b>
<b>CC-BOT-311 PC-BOT-311</b>	Study of Cyanobacteria: Character, Thallus, Economic Importance. General Characters, Harmful Aspects, Life history of algae & fungi. The Fundamentals, Classification and general Symptoms of plant pathology
<b>CC-BOT-312 PC-BOT-312</b>	Study of General Characters, origin and Life history of Bryophyta & Pteridophyta. Introduction of Gymnosperms with Pteridophyte, Economic importance and Life history of Gymnosperms.
<b>CC-BOT-313 PC-BOT-313</b>	Study of Angiosperm Families, Distinguishing characters and classification as per Bentham and hookers system. Climatic factors and Biotic factors, Edaphic factors and Autecology. Structure and Function of stomata, Secretory tissue, Nodal anatomy, Ergastic substance and leaf fall & wound healing.
<b>CC-BOT-314 PC-BOT-314</b>	Cell Biology-study of ultra structure mitochondria. Study of Non-Mendalian inheritance, chromosomal Aberrations. Microbiology: Cell structure of Bacteria, Preparation for light microscope examination, Wet mount and hanging drop technique. Bio Statistics: Measure of Dispersion-I & II, Probability.

**ES-BOT-303**  
**Air Pollution**

Define Pollution and Pollutants, Air pollution: Introduction, Quality, Sources of air pollutants. Carbon & Sulphur Compound. Nitrogen oxide. Fluorocarbons & Hydrocarbons, Metal & Photochemical products. Prevention & Control of Air Pollution. Green house effect, Global warming, Ozone-depletion and Acid rain.