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

Program	Specific	Outcomes	(PSOs)
	obcerre		

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

Course Outcomes (COs)

Course	Outcome				
СС-ВОТ-321	Chemical Nature of genetic materials: Molecular structure of DNA &				
PC-BOT-321	RNA, Genetic code and Translation.				
	Defense mechanisms in plants, Dissemination of plant pathogens &				
	Study of Lichens & Angiosperm Families, Distinguishing characters and				
	classification as per Bentham and hookers system.				
СС-ВОТ-322	Biochemistry- Study of Lipids, Vitamins and Enzymes.				
PC-BOT-322	Plant Physiology-Translocation of food in plant, light reaction, photo-				
	phosphorylation, path of Carbon in photosynthesis.				
	Respiration, Photoperiodism, seed dormancy, physiological role of				
	phytohormones.				
СС-ВОТ-323	General study of Economic importance of oil seeds, fibers, medicinal				
PC-BOT-323	plants, Dyes & wood.				
	Plant tissue culture & Biotechnology- Nutrition medium, types of culture,				
	Recombination DNA technology.				
	Genetics- Sex Determination and sex linkage, Maternal effects and				
	cytoplasmic heredity.Energy flow in the ecosystems, ProductionEcology.				
СС-ВОТ-324	Plant anatomy: Root-Stem transition, Anatomy in relation to Taxonomy,				
PC-BOT-324	Methods & Anomalous Secondary growth.				
	Plant Breeding: Introduction, history, evolution, Patterns and scope and				
	objectives of Crop plants. Types of Artificial Vegetative Reproduction,				
	Selection in Self-Pollinated Crops.Breeding Methods and Hybrid Vigour.				

ES-BOT-302 Fresh Water Ecology			
Fresh Water Ecology	Swamps. Properties and types of Fresh water, structure of lake. Aquatic food web and food pyramids, energy flow, Threats to aquatic		
	Ecosystem, Global issues and legislation for conservation and		
	management.		