Department of Botany	After successful completion of three year degree program in			
	Botany a student is able to:			
	 Acquire fundamental Botanical knowledge through theory and practicals. Understand role of living and fossil plants in our life. Understand good laboratory practices and safety. Create awareness about cultivation, conservation and sustainable utilization of biodiversity. Purse higher education in the different fields such as Botany, Biotechnology, Forestry, Ethnobotany, Plant Systematics, Plant Physiology, Paleobotany etc. Students have bright future to join DRDO, BSI, NBRI, CSIR- IARI, FRI etc as scientist-B after completing graduation. 			
	7. Moreover students may compete for Indian Forest Service after studying botany in graduation.			
B.Sc. Medical (Botany) Part-I (Semester-I and II)				
Course	Outcome			
Paper- I: Diversity of Microbes Paper-II : Diversity of Cryptogams Paper-III : Cell Biology Paper-IV : Genetics and Evolution	 Study of microbes and cryptogams to understand their Diversity. Know the systematics, morphology and structure of virus, bacteria, algae, fungi, lichens, bryophytes, and Pteridophytes. Know life cycle pattern and economic importance of microbes and cryptogams. Evolution of stellar system in Fern-allies and Ferns. Students will study general structure and function of cell, cell envelope and cell organelles. Know the chromosome organization, chromosome alteration and variation in chromosome number. Study the structure and replication of DNA, RNA and protein synthesis. Study the mutations, genetic variations and theories of evolution 			
B.Sc. N	Vedical (Botany) Part-II (Semester-III and IV)			
Course	Outcome			
Paper V: Diversity and	1. To impart knowledge to students about the general characters			
Systematics of Gymnosperms	classification, evolution and diversity of representatives of			
Paper VI: Diversity and	different gymnosperms.			

Course Outcomes: B. Sc. Medical (Botany)

Systematics of Angiosperms	2.	Student will study the Geological time scale, fossilization and					
		fossil gymnosperms.					
	3.	Know the general characters of progymnosperms and					
		evolution of seed habit.					
	4.	Student acquaint about the origin and evolution of					
		angiosperms and angiosperm taxonomy.					
	5.	Know the principles and rules of ICN and different system of					
		angiosperm classification.					
	6.	Study the Diagnostic features and technical description of					
		angiosperm families					
Paper VII: Plant Anatomy	1.	Objective of the paper is to impart knowledge to students					
Paper VIII: Development And		about the tissue systems, root shoot and leaf anatomy.					
Reproduction In Flowering	2.	Study Cambium and its functions along with Secondary					
Plants		growth including anomalous secondary growth.					
	3.	Students learn about the vegetative propagation and					
		applications in floriculture and horticulture.					
	4.	Know about structure and development of flower and					
		inflorescence types.					
	5.	Also learn sexual reproduction in angiosperm, structure of					
		male and female gametophytes and post fertilization changes.					
		B.Sc. Medical (Botany) Part-III (Semester-V and VI)					
B.Sc. Medical (Botany) F	Part-III	(Semester-V and VI)					
B.Sc. Medical (Botany) P Course	Part-III Outco	(Semester-V and VI) ome					
B.Sc. Medical (Botany) P Course Paper IX: Plant Physiology	Part-III Outco 1.	(Semester-V and VI) ome Impart knowledge to students about the functional aspects of					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth,	Part-III Outco 1.	(Semester-V and VI) ome Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration,					
B.Sc. Medical (Botany) P Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And	Part-III Outco 1.	(Semester-V and VI) me Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Outco 1.	(Semester-V and VI) me Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Part-III Outco 1.	(Semester-V and VI) me Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment.					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Part-III Outco 1. 2.	(Semester-V and VI) ome Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment. Study of structure, classification and mechanism of enzyme					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Part-III Outco 1. 2.	(Semester-V and VI) ome Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment. Study of structure, classification and mechanism of enzyme action.					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Part-III Outco 1. 2. 3.	Image: (Semester-V and VI) Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment. Study of structure, classification and mechanism of enzyme action. Students learn about the different technologies in biology of					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	2.	(Semester-V and VI) ome Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment. Study of structure, classification and mechanism of enzyme action. Students learn about the different technologies in biology of plants to understand its growth, growth kinetics and effect of					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Part-III Outco 1. 2. 3.	Image: (Semester-V and VI) Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment. Study of structure, classification and mechanism of enzyme action. Students learn about the different technologies in biology of plants to understand its growth, growth kinetics and effect of light on germination and growth of seed and seedling under					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Part-III Outco 1. 2. 3.	(Semester-V and VI) me Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment. Study of structure, classification and mechanism of enzyme action. Students learn about the different technologies in biology of plants to understand its growth, growth kinetics and effect of light on germination and growth of seed and seedling under different environments.					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Part-III Outco 1. 2. 3. 4.	Image: (Semester-V and VI) Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment. Study of structure, classification and mechanism of enzyme action. Students learn about the different technologies in biology of plants to understand its growth, growth kinetics and effect of light on germination and growth of seed and seedling under different environments. Know tools and techniques of recombinat DNA technology.					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Part-III Outco 1. 2. 3. 4. 5.	(Semester-V and VI) me Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment. Study of structure, classification and mechanism of enzyme action. Students learn about the different technologies in biology of plants to understand its growth, growth kinetics and effect of light on germination and growth of seed and seedling under different environments. Know tools and techniques of recombinat DNA technology. Basic concept of plant tissue, culture, totipotency,					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Part-III Outco 1. 2. 3. 4. 5.	Image: (Semester-V and VI) Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment. Study of structure, classification and mechanism of enzyme action. Students learn about the different technologies in biology of plants to understand its growth, growth kinetics and effect of light on germination and growth of seed and seedling under different environments. Know tools and techniques of recombinat DNA technology. Basic concept of plant tissue, culture, totipotency, micropropagation, anther culture, embryo culture, synthetic					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Part-III Outco 1. 2. 3. 4. 5.	(Semester-V and VI) Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment. Study of structure, classification and mechanism of enzyme action. Students learn about the different technologies in biology of plants to understand its growth, growth kinetics and effect of light on germination and growth of seed and seedling under different environments. Know tools and techniques of recombinat DNA technology. Basic concept of plant tissue, culture, totipotency, micropropagation, anther culture, embryo culture, synthetic seeds and somatic hybridization.					
B.Sc. Medical (Botany) F Course Paper IX: Plant Physiology Paper X: Plant Growth, Development And Biotechnology	Part-III Outco 1. 2. 3. 4. 5. 6.	Image: (Semester-V and VI) Impart knowledge to students about the functional aspects of plant physiological reactions like ascent of sap, transpiration, translocation of nutrients, photosynthesis, respiration and nitrogen and lipid metabolism in relation to its dynamic environment. Study of structure, classification and mechanism of enzyme action. Students learn about the different technologies in biology of plants to understand its growth, growth kinetics and effect of light on germination and growth of seed and seedling under different environments. Know tools and techniques of recombinat DNA technology. Basic concept of plant tissue, culture, totipotency, micropropagation, anther culture, embryo culture, synthetic seeds and somatic hybridization. Biotechnology and its application in human welfare with					
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Paper XI: Plant Ecology	1.	Students learn basic concepts of Ecology and make them
Paper XII: Plant Utilization		aware of the various Environmental issues.
	2.	Study the Biodiversity and Conservation strategies, concept of
		hot spots, biomes, phytogeographic regions Conservation
		strategies, concept of hot spots, biomes, phytogeographic
		regions and vegetation types of India.
	3.	Know about succession, energetic and ecological productivity.
	4.	This will impart knowledge to students about the plant
		resources being used by human, their effective and sustainable utilization.
	5.	It also develop critical understanding of common cultivation
		practices and germplasm evolution of cereal crops and uses of
		oil, timber, and fibre yielding crops, vegetables, fruits, spices,
		medicinal, rubber, beverages, and narcotic plants.