"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार"

-शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Ramkrishna Paramhansa Mahavidyalaya, Osmanabad

(Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad)

|| NAAC Reaccredited 'B+' Grade || || DBT-STAR College by Govt. of India ||
|| UGC STATUS: College with Potential for Excellence ||

Course Outcomes

Department of Botany

	B.Sc. I year (Semester-I)
	Diversity of Cryptogams –I (BOT – 111)
CO1	Understand the general characters, classification and economic importance of Viruses.
CO2	Study the general character, classification and economic importance of Bacteria.
CO3	Study the general characters, classification and economic importance of Algae.
CO4	Know the general characters, classification and economic importance of Fungi.
CO5	Study the general characters, classification and economic importance of Lichens.
	Morphology of Angiosperms. (BOT – 112)
CO1	Know the basic body plan of flowering plant, modular type of growth and diversity of plant forms.
CO2	Study the morphology of vegetative organs root, stem and leaf.
CO3	Study the morphology of reproductive organs Inflorescence, Flower, Fruit, Fruit and seed dispersal.
CO4	To develop ability among the students to identify, remember and grasp the meanings, definitions of Angiosperms
CO5	Study the general characters of Angiosperms
	B.Sc. I year (Semester-II)
	Diversity of Cryptogams –II (BOT – 211)
CO1	Study general characters and classification of bryophytes,
CO2	Study of Marchantia and Funaria.
CO3	Study general character and classification of pteridophytes ,
CO4	Study Psilotum, Lycopodium, Selaginella, Equisetum and Marsilea.
	Histology, Anatomy and Embryology (BOT – 212)
CO1	Study types of tissue, meristematic, permanent, epidermal and histological organization of root and stem apices.
CO2	Understand the primary structure of dicot and monocot root, stem and leaf.
CO3	Study the pollination mechanism, types and agencies.
CO4	Study double fertilization and its significance,
CO5	Study development of dicot embryo
	B. Sc. II Year (Semester-III)

	Taxonomy of Angiosperms (BOT – 311)
CO1	Study the salient features, origin and evolution of Angiosperm.
CO2	Study systems of classification.
CO3	Study Bentham and Hooker's system of classification.
CO4	Study taxonomy in relation to anatomy, embryology, palynology, ecology and cytology.
	Plant Physiology (BOT – 312)
CO1	Study the plant water relations Diffusion, osmosis plasmolysis, imbibition, water absorption and ascent of sap, transpiration.
CO2	Study mineral nutrition
CO3	Understand enzymes
CO4	Study growth
CO5	Understand growth regulators
	B.Sc. II year (Semester-IV)
	Gymnosperm and Utilization of Plants (BOT – 411)
CO1	Study salient features of gymnosperms, morphology and anatomy of Cycas, Pinus, Gnetum.
CO2	Study fossils , fossilization ,Lyginopteris ,geological time scale
CO3	Study utilization of plants
CO4	Study Wheat, Jowar,
CO5	Study Sugarcane, Cotton Jute
	Plant Ecology (BOT – 412)
CO1	Study climatic factors-light, temperature and water
CO2	Study edaphic factors –study of soil ,soil formation ,
CO3	Study physicochemical properties of soil,
CO4	Understand the community ecology.
CO5	Understand ecosystem. Study Photosynthesis
CO6	Study soil types of India,
	B. Sc. III Year (Semester-V)
	Cell Biology and Molecular Biology (BOT – 511)
CO1	Study cell and cell ,cell wall and cell organelles, a)Golgi complex b) Endoplasmic reticulum, c) Lysosomes d) Nucleus
CO2	Study cell division, cell cycle, Mitosis, Meiosis, process and significance
CO3	Study Nucleic acids, DNA chemical composition, replication of DNA, RNA structure types and function
CO4	Study chromosomes
	Plant Pathology (BOT – 512 C)
CO1	Study fundamentals of plant Pathology
CO2	Study the classification of plant diseases
CO3	Get information about plant pathological institute-IARI,ICRISAT
CO4	Study seed pathology

CO5	Study air borne pathogens ,methods and application
	B. Sc. III Year (Semester-VI)
	Genetics and Biotechnology. (BOT – 611)
CO1	Study Mentalism, G. J. Mendel, Mendelian principles.
CO2	Study interaction of genes
CO3	Study chromosomal theory of sex determination
CO4	Study of Biotechnology
	Microbiology and Disease Management (BOT – 612 C)
CO1	Study microbial techniques- microscopy ,micrometry and staining, sterilization of glass wares
CO2	Study preparation of culture media for isolating plant pathogens
CO3	Study industrial application of microorganism
CO4	Study disease management, preventive methods.