

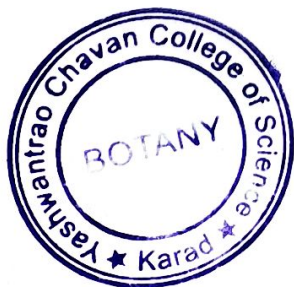
Yashwantrao Chavan College of Science, Karad

Department of Botany

2024-25

COURSE OUTCOMES

B. Sc. III (Semester V)	Paper IX: DSE-E 25 REPRODUCTIVE BIOLOGY OF ANGIOSPERMS CO41. Recognize morphology of reproductive organs and development in the reproduction of angiosperms. CO42. Understand Pollination and Fertilization mechanism in plants CO43. Explore the organization of Embryo and Endosperm development in plants.
B. Sc. III (Semester V)	Paper X: DSE-E 26 PLANT METABOLISM AND STRESS BIOLOGY CO44 Understand plant water relationship and mechanism of transpiration. CO45 Explore the mechanism of mineral nutrient uptake in plants. CO46 Explain biotic and abiotic factors responsible for plant stress.
B. Sc. III (Semester V)	Paper XI: DSE-E 27 PLANT BIOTECHNOLOGY CO47. Explain applications of Plant biotechnology CO48. Describe Plant Tissue Culture techniques and Genetic Engineering. CO49. Explain transgenic plants and method of gene transfer.
B. Sc. III (Semester V)	Paper XII: DSE-E 28 HORTICULTURE CO50. Understand divisions and important Horticulture practices CO51. Explore floriculture techniques and fruit preservation technology. CO52. Learn management and conservation of horticultural.



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B. Sc. III (Semester VI)	Paper XIII: DSE-F 25 PLANT BIOCHEMISTRY AND RESEARCH METHODOLOGY CO53. Explain classification, structure, isomerism and significance of carbohydrates. CO54. Describe structure, properties, significance of lipids in plant cell. CO55. Learn type of research and methodology
B. Sc. III (Semester VI)	Paper XIV: DSE-F 26 NATURAL RESOURCE MANAGEMENT AND HERBAL TECHNOLOGY CO56. Learn management of natural resources and utilization. CO57. Understand sources of herbal medicines, identification, extraction, isolation and purification of herbal medicines. CO58. Explain application of herbal cosmetics.
B. Sc. III (Semester VI)	Paper XV: DSE - DSE-F 27 PLANT DIVERSITY AND ETHNOBOTANY CO59 Understand value of plant diversity CO60 Learn to conserve methods of plant diversity conservation
B. Sc. III (Semester VI)	Paper XVI: DSE-F 28 PLANT BREEDING, BIOINFORMATICS AND BIOSTATISTICS CO62. Learn methods of plant breeding CO63 Describe Bioinformatics and tools, Information technology, History and tools of IT. CO64 Explain Biostatistics terminology, Data presentation and measures of central tendency.

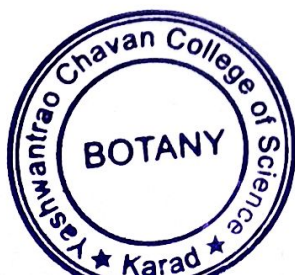


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COURSE OUTCOMES

B. Sc. III Practical-I	Practical-I (Based on Paper No. IX and XIV) CO65 Study of flower, anther, pollen germination, pollen viability, embryo, ovule and endosperms in angiosperms. CO66 Estimation of carbonates, bicarbonates, BOD, COD, DO of water. CO67 Study of major and minor forest products, herbal preparations and adulterations. CO68 Analysis of Carbon sequestration, satellite images.
B. Sc. III Practical-II	Practical-II (Based on Paper No. X and XIII) CO69 Study of plant water relations, deficiency symptoms in plants CO70 Estimation of proline, polyphenols from plant material. CO71 Carry out qualitative tests for sugar, starch, cellulose, protein and lipids. CO72 Study of micrometry, photomicrography techniques and camera lucida technique.
B. Sc. III Practical-III	Practical-III (Based on Paper No. XII and XIII) CO73 Study of horticultural techniques like budding, layering, grafting CO74 Study of ornamental plants like indoor, outdoor, hedge, edge plants CO75 Qualitative tests for sugar, protein, lipid, starch, cellulose in plants CO76 Separation techniques like TLC, Paper chromatography
B. Sc. III Practical-IV	Practical-IV (Based on Paper No. XI and XVI) CO77 Study of tissue culture, callus culture, protoplast isolation. CO78 Study of golden rice genetics, plant breeding techniques. CO79 Study hybridization techniques in crops. CO80 Study of biostatistics, NCBI database and protein structure.




Head
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