OUT COMES OF LEARNING M.Sc. BOTANY

Learning Outcomes:

LO_1: Understand the structural organization and variation in chromosomes

LO_2: Get self-employment in the fields as: mushroom cultivation, organic manure preparation, the horticultural plant production through nursery technique, cultivation of crops in poly-house, plant tissue culture laboratories etc.

LO_3: Understand plant structures in the context of physiological functions of plants.

LO_4: Understanding the importance of lipids and their metabolism in plants.

LO_5: Understand the morphological and structural organization of Algae, Fungi, and Plants.

LO_6: Economic Botany and exploration of plants for human benefit.

LO_7: Diversity of plants with respect to their ecological significance.

LO_8: Developmental biology of plants.

LO_9: Industrial application of microorganism and plants.

Master of Science (M.Sc.)

Programme Outcomes:

PO_1: **Knowledge and understanding**; of the range of plant diversity with their structure and function and environmental relationships. The evaluation of plant diversity through basic taxonomical research.

PO_2: **Rational abilities**; Assimilate the knowledge and scientific ideas based on wide reading, and research through the internet. Exchange of knowledge and comparative discussion of various topics within the subject. Construct and testing the hypothesis so that they can develop research attitude and write a report on a project.

PO_3: **Practical skills**: Students learn to carry out practical work, in the field and in the laboratory, with minimal risk.

PO_4: **The Botanist and society**: Apply reasoning informed by the contextual knowledge to assess plant diversity, its importance for society, health, safety, legal and environmental issues and the consequent responsibilities relevant to the biodiversity conservation practice.

PO_5. **Environment and sustainability**: Understand the impact of the plant diversity in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

THE CO-ORDINATOR
P. G. Department of Botany
B. K. College, Chikodi.

PRINCIPAL
KLES'S Basavaprabhu Kore
Arts, Science and Commerce College
CHIKODI - 591 201

PO_6. **Ethics**: Apply ethical principles and commit to environmental ethics and responsibilities and norms of the biodiversity conservation.

PO_7. **Scientific Knowledge**: Apply the knowledge of basic science, life sciences and fundamental process of plants to study and analyze any plant form.

PO_8. **Problem analysis**: Identify the taxonomic position of plants, formulate the research literature, and analyze non reported plants with substantiated conclusions using first principles and methods of nomenclature in Botany.

PO_9. **Design/development of solutions**: Design solutions from medicinal plants for health problems, disorders and disease of human beings and estimate the phytochemical content of plants which meet the specified needs to appropriate consideration for the public health

PO_{10}. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern instruments and equipments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological activities of plants with an understanding of the application and limitations

PO_{11}. **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO_{12}. **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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