

Course Title: Plant Physiology, Metabolism & Biochemistry **Course Code: B040501T**

Course outcomes

After the completion of the course the students will be able to:

- Understand the role of Physiological and metabolic processes for plant growth and development.
- Learn the symptoms of Mineral Deficiency in crops and their management.
- Assimilate Knowledge about Biochemical constitution of plant diversity.
- Know the role of plants in development of natural products, nutraceuticals, dietary supplements, antioxidants

Course Title: Molecular Biology & Bioinformatics

Course Code: B040502T

Course outcomes

After the completion of the course the students will be able to:

- Understand nucleic acids, organization of DNA in prokaryotes and Eukaryotes, DNA replication mechanism, genetic code and transcription process.
- Know about Processing and modification of RNA and translation process, function and regulation of expression.
- Gain working knowledge of the practical and theoretical concepts of bioinformatics

Course Title: Experiments in physiology, Biochemistry & molecular biology

Course Code: B040503P

Course outcomes

After the completion of the course the students will be able to:

- Know and authentic the physiological processes undergoing in plants along with their metabolism
- Identify Mineral deficiencies based on visual symptoms
- Understand and develop skill for conducting molecular experiments for genetic engineering