

SUBJECT NO-BT60015, SUBJECT NAME- SECONDARY METABOLISM IN PLANTS AND MICROBES

LTP- 3-0-0,CRD- 3

SYLLABUS :-

Introduction to primary & secondary metabolism: structure, biosynthesis and metabolism of important secondary products; Glycosides, isoprenoids, cardenolides, alkaloids, phenylpropanoids and antibiotics. Important groups of secondary metabolic enzymes; Significance of secondary metabolism and products for the producer organism. Regulation and expression of secondary metabolism; regulation of enzyme activity; regulation of enzyme amount; integration with differentiation and development; action of inducers; coordinated enzyme expression and sequential gene expression. Metabolic pathway engineering.