

**PROGRAMME: MASTER OF SCIENCE BOTANY (MSCBOT20)**

**Year/ Semester: III<sup>rd</sup> semester**

**Course Code: MBOT-603**

**Course Name: APPLIED MYCOLOGY**

**Syllabus**

**BLOCK – I: DIVERSITY, TAXONOMY AND UTILIZATION OF FUNGI**

Unit –1: General Account and Diversity of Fungi

Unit –2: Fungal Taxonomy

Unit –3: Mycorrhizae

Unit –4: Edible Mushrooms: Medicinal and Nutritional Value

Unit –5: Mushroom Cultivation

Unit –6: Fungi as Biopesticides

**BLOCK – II: FUNGAL BIOTECHNOLOGY**

Unit –7: Scope and Techniques of Fungal Biotechnology

Unit –8: Fungal Enzymes and Metabolites

Unit –9: Industrial production of Penicillin, Citric Acid and Alcohol

Unit –10: Fungi in Relation to Pollution

Unit –11: Fungi in Biodegradation