

**Programme: M.Sc. (Microbiology)**

**Course Code: MIPE-404**

**Title of the Course: MYCOLOGY[P]**

**Number of Credits: 1, Practical**

**Contact hours: 30**

**Effective from Academic Year: 2022-23**

<b>Objective:</b>	To familiarize with techniques related to fungal isolation, identification and application.	
<b>Content:</b>		<b>(30)</b>
1.	<b>Study and Identification of fungi:</b> Study of standard cultures and identification - Observation of colonial and morphological characteristics, Reference to identification keys	
2.	<b>Fungal Genetics:</b> Isolation of fungal DNA	
3.	<b>Application of fungi for bioremediation:</b> Fungal degradation of azo dye	
4.	Degradation of plant polymer by fungal enzyme (crude)	
5.	Mushroom cultivation	
<b>Pedagogy:</b>	Hands-on experiments in the laboratory, video, online data	
<b>References/Readings</b>	As given under Theory Course MITE-404	
<b>Learning Outcomes</b>	To apply the knowledge gained- i. For isolation and identification of fungal isolate ii. For diverse applications in biotechnology	