

MIC 205-P MYCOLOGY [P]
Practical Course Credit : 1
Contact Hours : 30

1. Study and Identification of fungi

1.1 Study of standard cultures:

- A. Colony characteristics**
- B. Morphological characteristics**

1.2 Identification:

- A. Observation of colonial and morphological characteristics**
- B. Reference to identification keys**

2. Fungal Genetics

Isolation of fungal DNA

3. Application of fungi for bioremediation

Fungal degradation of a plant polymer.

References (Composite list for theory and practicals):

1. Alexopoulos, C. J., Mims, C. W. and Blackwell, M., Introductory Mycology, John Wiley & Sons (Asia) Pvt. Ltd.
2. Mehrotra, R. S. and Aneja, K. R., An Introduction to Mycology, Wiley Eastern Limited.
3. Cooke, R. C. and Whipps, J. M., Ecophysiology of fungi, Blackwell Scientific Publications, Oxford.
4. Deacon, J. W., Introduction to Modern Mycology, Volume 7 of Basic Microbiology, Blackwell Scientific Publications.
5. Kendrick, B., The Fifth Kingdom, Focus Publishers.
6. Davis, B. D., Dulbecco, R., Eisen, H. N. and Ginsberg, H. S., Microbiology, Harper and Row.
7. Strickberger, M. W., Genetic, The MacMillan Company, New York.
8. Domsch, K. H., Gams, W. and Anderson, T-H., Compendium of Soil Fungi, IHW-Verlag.
9. Gilman, J. C. and Joseph, C., A Manual of Soil Fungi, Daya Books.
10. Onions, A. H. S., Allsop, D. and Eggins, M. O. W., Smith's Introduction to Industrial Mycology, Edward Arnold, London.