

# D.B.F. Dayanand College of Arts and Science, Solapur

## COURSE OUTCOME

Name of Department - Botany

<b>B.A. / B.Sc. / M.A. / M.Sc. –M.Sc.</b>																							
<b>NAME OF SUBJECT – Botany</b>																							
<b>SEM I /II/ III/IV/V/VI – I</b>																							
<b>COURSE NUMBER ( PAPER NUMBER) -I</b>																							
<b>TITLE OF COURSE (NAME OF PAPER) -Biology and diversity of fungi, Bacteria, Viruses and Lichens.</b>																							
<b>COURSE CONTENT</b>	<b>OBJECTIVES</b>	<b>OUTCOME</b>																					
<p><b>Unit-1- Fungi</b> :-General characters and recent trends in classification, Cell ultrastructure and Cell wall composition, nutrition (saprobic, biotrophic,symbiotic ), reproduction ( vegetative , asexual and sexual ), fructification and Spore forming structures, heterothallism, heterokaryosis parasexuality. Economic importance of fungi : - Fungi in industry , medicine and food , Mushroom cultivation , Mycorrhizae , fungi as biocontrol agents , fungal as allergens and human pathogens.</p>	<p>To understand about the characters, recent trends &amp; importance of fungi in various field</p>	<p>Student get knowledge about the characters, recent trends &amp; importance of fungi in various field</p>																					
<p><b>Unit-2-Taxonomical groups</b> to understand life cycle patterns , growth, reproduction and phylogeny with respect to following major classes upto the level of order ( Ainsworth`s 1973 system to be followed )</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Division</th> <th style="text-align: center;">Class</th> <th style="text-align: center;">Order</th> </tr> </thead> <tbody> <tr> <td>Myxomycota</td> <td>1) Myxomycetes 2)Plasmodiophoromycetes</td> <td>Stemonitales</td> </tr> <tr> <td><b>B) EumycotaSub division</b></td> <td></td> <td></td> </tr> <tr> <td>1)Mastigomycotina</td> <td>1)Chytridiomycet 2) Oomycetes</td> <td>Chytridiales Peronosporales</td> </tr> <tr> <td>2) Zygomycotina</td> <td>1) Zygomycetes</td> <td>Mucorales</td> </tr> <tr> <td>3) Ascomycotina</td> <td>1)Hemiascomycetes 2) Plectomycetes 3)Pyrenomycetes.  4)Disomycetes 5) Loculoascomycetes</td> <td>TaphrinalesEurotialesMeliolales, Xylariales, Claricepitales. Pezizales Dothideales</td> </tr> <tr> <td>4)Basidiomycotina</td> <td>1)Teliomycetes  2)Hymenomycetes</td> <td>Ustilaginales Uridinales, , Polyporales, Agaricales</td> </tr> </tbody> </table>	Division	Class	Order	Myxomycota	1) Myxomycetes 2)Plasmodiophoromycetes	Stemonitales	<b>B) EumycotaSub division</b>			1)Mastigomycotina	1)Chytridiomycet 2) Oomycetes	Chytridiales Peronosporales	2) Zygomycotina	1) Zygomycetes	Mucorales	3) Ascomycotina	1)Hemiascomycetes 2) Plectomycetes 3)Pyrenomycetes.  4)Disomycetes 5) Loculoascomycetes	TaphrinalesEurotialesMeliolales, Xylariales, Claricepitales. Pezizales Dothideales	4)Basidiomycotina	1)Teliomycetes  2)Hymenomycetes	Ustilaginales Uridinales, , Polyporales, Agaricales	<p>To understand about the life cycle patterns , growth, reproduction and phylogeny with respect to various orders of fungi</p>	<p>Student get knowledge about the life cycle patterns , growth, reproduction and phylogeny with respect to various orders of fungi</p>
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	3)Gastromycetes	Lycoperlales ,Nidullariales		
5)Deuteromycotyina	1)Hyphomycetes 2)Coelomycetes	Hypomycetales, TubercularialesSphaeropsidales , Melanconials		
<b>Unit-3- Archaeobacteriaand Eubacteria:</b> - General account , ultrastructure , nutrition and reproduction , nitrogen fixing bacteria and industrial uses.			To understand about the Archaeobacteriaand Eubacteria	Student get knowledge about the Archaeobacteriaand Eubacteria
<b>Unit-4-Viruses :</b> - Characteristics , ultrastructure , nutrition isolation and purification ,chemical nature , replication , transmission and economic importance.			To understand about the Viruses	Student get knowledge about the Viruses
<b>Unit-5-Lichens</b> -Distribution, in Forms, Biology and Economic importance.			To understand about the Lichens-	Student get knowledge about the Lichens-

Signature of HOD