

**Four-year Undergraduate Programme Subject:**  
**Botany**  
**Semester: First**  
**Course Name: *Plant and Microbial Diversity***  
**Existing Base Syllabus: UG CBCS Syllabus**  
**Course Level: 100-199, and subsequent level as per NEP structure**

<b>THEORY</b> [Total marks: 60] Credit: 03; Total No. of classes: 45			
<b>Unit no.</b>	<b>Unit content</b>	<b>Course outcome</b>	<b>Bloom's Taxonomic Level Achieved</b>
<b>Unit 1</b>	<b>Origin of life</b>	<ul style="list-style-type: none"> <li>• Students will gain knowledge with the concept of different kingdoms and the theories behind how life began.</li> <li>• Students will understand the characteristics, distribution, classification, reproduction, and current status of various microbial and plant communities.</li> <li>• Students will attain a good understanding of virus, algae, fungus, bryophyte, and pteridophyte cell structures, dicotyledonous and monocotyledonous leaf venation patterns, and inflorescence and fruit features.</li> <li>• Students will be able to identify various groups of organisms in the laboratory through morphological analysis.</li> </ul>	<ul style="list-style-type: none"> <li>• Remember</li> <li>• Understand</li> <li>• Apply</li> <li>• Analyze</li> <li>• Evaluate</li> </ul>
<b>Unit 2</b>	<b>Bacteria and Viruses</b>		
<b>Unit 3</b>	<b>Algae</b>		
<b>Unit 4</b>	<b>Fungi &amp; Lichens</b>		
<b>Unit 5</b>	<b>Bryophytes and Pteridophytes</b>		
<b>Unit 6</b>	<b>Gymnosperms and Angiosperms</b>		