Botany

**Programme Outcomes**

1. Understand the basic concepts of Botany in relation to its allied core courses.  
2. Perceive the significance of microbes and Plants for human welfare, and structural and  
functional aspects of Plants.  
3. Demonstrate simple experiments related to plant sciences, analyze data, and interpret  
them with theoretical knowledge.  
4. To provide a comprehensive knowledge on various aspects related to microbes and  
plants.  
5. To deliver knowledge on latest developments in the field of Plant Sciences with a  
practical approach.  
6. To produce a student who thinks independently, critically and discuss various aspects  
of Plant life.  
7. To enable the graduate to prepare and pass through national and international  
examinations related to Botany.  
8. To empower the student to become an employee or an entrepreneur in the field of  
Botany/Biology and to serve the nation.  
9. Social Interaction: During field visits social interaction with locals.  
10. Effective Citizenship: Work in multi-disciplinary environments and be responsive to  
the changing needs of the society.  
11. Ethics: Students learn ethical approach, to conserve diversity of animal kingdom.  
12. Environment and Sustainability: understand the issues of environmental contexts and  
sustainable development.  
13. Self-directed and Lifelong learning: Engage in lifelong learning, apply the knowledge  
judicially and remain continuously employable.  
14. To provide Knowledge of various animals from primitive to highly evolved forms and  
its complexity.  
15. To foster curiosity in the students for Zoology & understand potential of various  
branches of Zoology.  
16. To equip students with laboratory skills as well as field-based studies to become a  
successful entrepreneur.  
17. To make aware about ways of conservation and sustainability.  
18. To inculcate knowledge and make successful career in zoology.

19. Communication skills: Chemistry graduates are expected to possess minimum  
standards of communication skills expected of a science graduate in the country.  
Graduates are expected to be well-versed in speaking and communicating their  
idea/finding/concepts to wider audience  
20. Critical thinking: Chemistry graduates are expected to know basics of cognitive biases,  
mental models, logical fallacies, scientific methodology and constructing cogent  
scientific arguments.  
21. Problem-solving: Graduates are expected to be equipped with problem-solving  
philosophical approaches that are pertinent across the disciplines;  
22. Analytical reasoning: Graduates are expected to acquire formulate cogent arguments  
and spot logical flaws, inconsistencies, circular reasoning etc.  
23. Graduates are expected to be keenly observant about what is going on in the natural  
surroundings to awake their curiosity.  
24. Teamwork: Graduates are expected to be team players, with productive co-operations  
involving members from diverse socio-cultural backgrounds.

**Programme Specific Outcomes**

1. Understand the basic concepts of Botany in relation to its allied core courses.  
2. Perceive the significance of microbes and Plants for human welfare, and structural  
and functional aspects of Plants.  
3. Demonstrate simple experiments related to plant sciences, analyse data, and interpret  
them with theoretical knowledge.  
4. Work in teams with enhanced inter-personal skills.  
5. Develop the critical thinking with scientific temper.  
6. Effectively communicate scientific ideas both orally and in writing.  
7. To provide a comprehensive knowledge on various aspects related to microbes and  
plants.  
8.To deliver knowledge on latest developments in the field of Plant Sciences with a  
practical approach.  
9.To produce a student who thinks independently, critically and discuss various aspects  
of Plant life.  
10.To enable the graduate to prepare and pass through national and international

examinations related to Botany.  
11. To empower the student to become an employee or an entrepreneur in the field of  
Botany/Biology and to serve the nation.  
12. Critical thinking: The curriculum helps to enhance the ability and thinking power  
of students.  
13. Effective Communication: acquire communication skill through debates, seminars  
and presentations.  
14. Social Interaction: During field visits social interaction with locals.  
15. Effective Citizenship: Work in multi-disciplinary environments and be responsive to  
the changing needs of the society.  
16. Ethics: Students learn ethical approach, to conserve diversity of animal kingdom.  
17. Environment and Sustainability: understand the issues of environmental contexts and  
sustainable development.  
18. Self-directed and Lifelong learning: Engage in lifelong learning, apply the knowledge  
judicially and remain continuously employable.  
19. To provide Knowledge of various animals from primitive to highly evolved forms and  
its complexity.  
20. To foster curiosity in the students for Zoology & understand potential of various  
branches of Zoology.  
21. To equip students with laboratory skills as well as field-based studies to become a  
successful entrepreneur.  
22. To make aware about ways of conservation and sustainability.  
23. To inculcate knowledge and make successful career in zoology.  
24. To inculcate research attitude and aptitude among students.  
25. To conduct basic and applied research which has societal and environmental value in  
Aquaculture discipline.  
26. Acquire comprehensive knowledge and skills.  
27. Make use of the knowledge in an innovative manner.  
28. Effectively apply the knowledge and skills to address various issues.  
29. Learn “how to learn”- Self-motivated and self-directed learning.  
30. Adapt to the ever-emerging demands of work place and life.  
31. Be inquisitive and establish cause and effect relationship.  
32. Investigate and report.

33. Use ICT effectively.  
34. Access, retrieve and use authenticated information.  
35. Access, retrieve and use authenticated information. Have knowledge of software  
applications to analyze data.  
36. Develop rationale and scientific thinking process.  
37. Use technology intelligently for communication, entertainment and for the benefit of  
mankind.  
38. Ensure ethical practices throughout ones endeavors for the well-being of human race.  
39. Predict and analyze problems.  
40. Frame hypotheses.  
41. Investigate and interpret empirical data.  
42. Plan and execute action.  
43. Work efficiently as an individual  
44. Cooperate, coordinate and perform effectively in diverse teams/groups.  
45. Prioritize common interest to individual interest.  
46. Express thoughts in an effective manner  
47. Listen, understand and project views in a convincing manner.  
48. Decide appropriate media to share inform