

## **The Programme learning outcomes of the undergraduate degree course in Life Sciences are as follows:**

**In-depth knowledge:** The student will acquire theoretical knowledge and understanding of the fundamental concepts, principles and processes in the three different disciplines chemistry, botany and zoology. The core papers will provide in-depth understanding of the subject. A wide choice of elective courses offered to the student will provide specialized understanding rooted in the core and interdisciplinary areas.

**Hands-on/ Laboratory Skills:** Comprehensive hands-on/ laboratory exercises will impart analytical, computational and instrumentation skills. The students will be able to demonstrate mature skills for the collating, evaluation, analysis and presentation of information, ideas, concepts and quantitative and/or qualitative data.

**Research skills:** The course provides an opportunity to students to hone their research and innovation skills through project/ community outreach/ dissertation/Academic Project. It will enable the students to demonstrate mature skills in literature survey, information management skills, data analysis and research ethics.

**Role of Life Sciences:** The students will develop awareness and appreciation for the significant role played by chemistry, botany and zoology in current societal and global issues, including areas such as sustainable development. They will be able to address and contribute to such issues through the skills and knowledge acquired during the programme.

**Communication and IT Skills:** Various DSCs, DSEs, SECs, and AECs have been designed to enhance student's ability to write methodical, logical and precise reports. The courses will, in addition, guide the student to communicate effectively through oral/poster presentations, writing laboratory/ project reports and dissertations. Several IT based papers in DSEs and SECs will enable students to develop expertise in general and subject specific computational skills.

**Lateral Thinking:** The programme will develop the ability to apply the underlying concepts and principles of chemistry, botany and zoology, and allied fields beyond the classrooms to real life applications, innovation and creativity.

**Competence and Job Opportunities:** The skills acquired during the programme will provide varied opportunities for students' career progression. They will be able to join analytical, chemical, pharmaceutical, biochemical, material testing, fast moving consumer goods (FMCG) and other industries/laboratories, academics, innovation and research at the end of the course.