

## **BSc in Biotechnology Program Program Intended Learning Outcomes**

Upon successful completion of the program, students will be able to:

1. Understand and examine in detail the scientific principles in both basic and advanced aspects of biotechnology. (**Knowledge**)
2. Synthesize knowledge from a range of study areas to formulate integrated solutions to academic, research, experimental or technical problems in biotechnology. (**Execution**)
3. Critically evaluate scientific data and apply scientific methods to analyze, draw conclusions and offer sound arguments to justify a position. (**Judgment**)
4. Effectively communicate scientific concepts to specialists as well as to a lay audience through oral and written presentations. (**Communication**)
5. Work independently as well as collaborate effectively in a team to solve scientific problems. (**Interpersonal Skill and Leadership**)
6. Critically appraise the contribution of biotechnology to the achievement of sustainability and assess its impact, both positive and negative, on human society. (**Appreciation of Science**)
7. Draw on scientific knowledge in developing a principled worldview and apply this to persuading and influencing others through informed discussion of the impact of science, both as a force for progress and as an agent of harm. (**Ethical Practice**)
8. Evaluate personal capabilities and develop strategies for continuous enrichment and achievement of whole-person wellness. (**Self-reflection**)
9. Develop a global perspective to evaluate a range of issues in the life sciences and biotechnology. (**International Outlook**)