

Graduate Profile: Bachelor of Science Honours Degree (Biological Science)

Bachelor of Science Honours degree (Biological Science) holder of the Faculty of Science of the University of Kelaniya will be an enthusiastic, honest, responsible, emotionally mature, assertive, self-motivated life-long learner with;

- specialized knowledge and understanding of principles of Biochemistry, Chemistry or Botany or Molecular Biology and Biotechnology or Microbiology or Zoology; fundamental areas and modern frontiers of the discipline with hands on experience in laboratory techniques and laboratory safety related to the specialized discipline.
- the awareness of current, complex and controversial issues in the subject area, and have the ability to apply knowledge to identify, analyze and propose appropriate solutions
- the ability to follow scientific method including critical thinking, logical reasoning and formulation of hypothesis, to design and conduct independent research for the generation of new knowledge contributing to the betterment of mankind
- interpersonal skills and strong adaptability to new academic and social environments
- ability to communicate his/her own ideas and views effectively and convincingly to diverse audiences, thorough understanding of skills related to ICT and information literacy
- ethical conduct, professional integrity, punctuality and managerial entrepreneurial skills.
- the ability to initiate and take personal and social responsibility in tasks performed

Intended Learning Outcomes of the BSc Honours (Biological Science) Degree programme

After completing the prescribed study programme, the graduates of Bachelor of Science Honours (Biological Science) should be in a position to:

1. demonstrate an in-depth knowledge in principles, fundamentals and modern frontiers of Biochemistry, Chemistry or Botany or Molecular Biology and Biotechnology or Microbiology or Zoology
2. apply advanced knowledge in selected study areas of Biochemistry or Chemistry or Botany or Molecular Biology and Biotechnology or Microbiology or Zoology
3. demonstrate hands on experience in laboratory techniques while adhering to the laboratory safety instructions related to Biochemistry Chemistry or Botany or Molecular Biology and Biotechnology or Microbiology or Zoology
4. apply principles on Biochemistry or Chemistry or Botany or Molecular Biology and Biotechnology or Microbiology or Zoology in different contexts across the discipline and propose solutions to real-world problems
5. demonstrate intellectual integrity and scientific ethics
6. obtain evidence by reviewing scientific literature to formulate, design and conduct scientific experiments to test hypotheses
7. employ independent thinking to critically analyze quantitative and qualitative data to make justifiable decisions or arguments
8. recognize and respect views and opinions of peers
9. identify individual and collective goals and responsibilities and perform accordingly
10. adapt to diverse academic and social environments
11. effectively communicate ideas and views to both scientific and laymen communities
12. demonstrate flexibility, adaptability and self-motivation towards continuous professional development