BSc (HONS) IN BIOTECHNOLOGY

Faculty of Humanities and Sciences offers BSc (Hons) in Biotechnology for those who wish to pursue a career in the biotechnology industry and in Academia.

The programme provides appropriate theoretical and practical knowledge through lectures, laboratory experiments, research, industrial experience, field visits and internship programmes.



Duration : 4 years

Entry : September/February/June

Location : Malabe Offered : Weekdays

Examinations : Weekdays/ Weekends

ACADEMIC AND PROFESSIONAL RECOGNITION

Approved by the Ministry of Higher Education, Sri Lanka

CAREER OPPORTUNITIES

- Academics Lecturers Research Scientists
- Medical Laboratory: Scientists , Managers
- Biotechnologists in: Pharmaceuticals, Agriculture, Environmental Science, Plant and Animal Sciences, Nutrition, Forensics
- Bioinformaticians
 Clinical Research Associates
- Science Journalists

ENTRY REQUIREMENTS

Local A/L: Minimum of 3 "S" Passes with any combination of the following subjects: Biology, Chemistry, Physics, Combined Mathematics, Higher Mathematics, Agricultural Science, Science for Technology, Bio Systems Technology, Agro Technology or Bio-Resource Technology. Cambridge/Edexcel A/Ls: Minimum of 3 "D" Passes with any combination of the following subjects: Biology, Chemistry, Physics, Mathematics or Further Mathematics. Applicants should also pass the Aptitude Test conducted by SLIIT.

YEAR ONE SEMESTER 01	BT1112 BT1121 BT1133 BT1142 BT1152 BT1163 BT1172	Analytical and Physical Chemistry Analytical and Physical Chemistry Laboratory Introduction to Biology English Introduction to Info. Technology Introduction to Biotechnology Laboratory Safety and Management	02 01 03 02 02 03 02
SEMESTER 02	BT1212 BT1221 BT1233 BT1243 BT1253 BT1263 BT1272	Organic Chemistry Organic Chemistry Laboratory Mathematics and Biophysics Introduction to Molecular Biology Microbiology Cell Biology Genetics	02 01 03 03 03 03 02
YEAR TWO SEMESTER 01	BT2313 BT2322 BT2332 BT2343 BT2352 BT2363	Animal and Human Physiology Introductory Bioinformatics Genome Structure and Organization Molecular Biology Plant Physiology Bio-Statistics	03 02 02 03 02 03
SEMESTER 02	BT2413 BT2423 BT2433 BT2443 BT2453 BT2463	Animal Cell Culture Biochemistry Plant and Animal Breeding Food Biotechnology Techniques in Molecular Biotecnology Plant Tissue Culture and Laboratory	03 03 03 03 03 03
YEAR THREE SEMESTER 01	BT3512 BT3522 BT3533 BT3543 BT3553 BT3563	Omic Science Genetic Engineering Bioinformatics Biotechnology for Crop and Animal Improvement Environmental Biotechnology Plant Pest and Diseases	02 02 03 03 03 03
SEMESTER 02	BT3613 BT3623 BT3632 BT3643 BT3653 BT3662	Industrial Biotechnology Organizational Leadership Protein Engineering Immunology Human Genome and Medical Biotechnology Introduction to Nano-Technology	03 03 02 03 03 02
YEAR FOUR SEMESTER 01	BT4713 BT4722 BT4732 BT4743 BT4752 ELECTIV BT4763 BT4773	Experimental Design and Research Methodology Regulation in Gene Expression Biosafety, Regulations and Ethics Introduction to Business Management and Entrepreneurship Quality Control Management of food Products E MODULES Advanced Molecular Biology Advanced Bioinformatics	03 02 02 03 02 03 03
SEMESTER 02	BT4783 BT4813 BT4828 BT4833	Bioprocessing Forensic in Biotechnology (Optional) Research Project Internship	03 03 08 03