In a pioneering effort SLIIT, as the leading Higher Education provider in the country, has embarked in offering Biotechnology and related science degrees through the newly established Faculty of Humanities and Sciences was established to groom qualified graduates to meet the emerging trends in present higher education. The school of Natural Sciences of the Faculty offers a Bachelor of Science (Hons) in Biotechnology for those who wish to pursue a degree in Biotechnology

Eligibility Criteria

Passes in three subjects (Biololgical Science Stream)
at the G.C.E Advanced Level Examination
(Sri Lanka / London or equivalent) in one and the
same sitting and a pass at the Aptitude Test conducted by SLIIT

Career Prospects

- Scientists or Managers in the Medical Laboratories
- Veterinary Industry
- Pharmaceutical Industry
- Biomedical Engineering
- Agricultural Industry
- Product Manufacturing & Production
- Nutritional Biotechnology
- Bioinformatics
- Forensic Investigations
- Bioterrorism and Marine Biotechnology

Contact Us :

SLIIT
New Kandy Road, Malabe

HOTLINE : 011 754 4801

info@sliit.lk www.sliit.lk

Duration	4 Years
Internship	4 Months Industrial Training
Credits	126 Credits
Location	Malabe Campus
Medium	English

SLIIT is the only Non-state University which offers this Local Bio Degree

THIS DEGREE IS OFFERED BY SLIIT AS APPROVED BY THE
UNIVERSITY GRANTS COMMISSION AND MINISTRY OF HIGHER EDUCATION

SLIIT 20 YEARS OF EXCELLENCE

SLIIT
Discover Your Future

BSc (Hons) in Biotechnology

SLIIT FACULTY OF HUMANITIES & SCIENCES

Why Choose Faculty of Humanities & Sciences ?

- Highly qualified panel of lecturers including Professors
- State – of - the- Art learning facilities with smart board & lecture capture facilities
- Comprehensive library which contains relevant reading material including e-books
- Well-equipped research laboratories
- IT laboratories
- Comfortable and relaxed campus environment

Course Overview

- This programme prepares you to enter the biotechnology industry - one of the fastest growing world's top five industries
- BSc (Hons) in Biotechnology is a four year full time course designed to groom young individuals who wish to pursue a career in Biotechnology
- The Programme provides you appropriate theoretical knowledge and hands-on laboratory experience
- This is a programme developed and delivered by highly qualified academic professionals
- Gain industrial experience through internship and research experience through research projects
- Excellent career opportunities in the biotechnology and related industries
- Obtain adequate knowledge to establish your own enterprise in Biotechnology

Course Outline

YEAR 1

Analytical and Physical Chemistry
Analytical and Physical Chemistry Laboratory
Introduction to Biology
English
Introduction to Info. Technology
Introduction to Biotechnology
Laboratory Safety and Management
Organic Chemistry
Organic Chemistry Laboratory
Mathematics and Biophysics
Introduction to Molecular Biology
Microbiology
Cell Biology
Genetics

YEAR 2

Animal and Human Physiology
Introductory Bioinformatics
Genome Structure and Organization
Molecular Biology
Plant Physiology
Bio-Statistics
Animal Cell Culture
Biochemistry
Plant and Animal Breeding
Food Biotechnology
Techniques in Molecular Biotechnology
Plant Tissue Culture and Laboratory

YEAR 3

Omic Science
Genetic Engineering
Bioinformatics
Biotechnology for Crop and Animal Improvement
Environmental Biotechnology
Plant Pest and Diseases
Industrial Biotechnology
Organizational Leadership
Protein Engineering
Immunology
Human Genome and Medical Biotechnology
Introduction to Nano-Technology

YEAR 4

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
Advanced Molecular Biology
Advanced Bioinformatics
Bioprocessing
Forensic in Biotechnology (Optional)
Research Project
Internship

Laboratories & Greenhouse Facilities

The SLIIT Science laboratories comprise of equipment with cutting-edge technology and chemicals for laboratory practical and researches. Science students of all disciplines are able to access these laboratories to conduct their practicals and research activities.

- **Biological Science Laboratory**
- **Physical Science Laboratory**
- **Tissue Culture Laboratory**
- **Molecular Biology Laboratory**

Greenhouse is another newly added facility that students gain hands on experience to work in fully automated artificial growing environment. Economically important crops are growing in this greenhouse by using advanced crop growing systems such as hydroponic and aeroponic techniques. The greenhouse contain robotic technology developed by SLIIT students are utilized in different controlling systems.