

BSC (HONS) BIOMEDICAL SCIENCE

ENTRY REQUIREMENTS

G.C.E. (A/L) Bio science stream with 3 passes (Local Biology, Physics and Chemistry)

Edexcel/ Cambridge with three passes in the Biology stream.

Three passes at the GCE (AL) or Edexcel/Cambride in one sitting.



Biomedical Science (BMS) is an interdisciplinary area of study, that combines aspects of Biology and Medicine. The training in BMS equips an individual with skills, attitudes and knowledge to find answers to critical issues in healthcare and disease. The main focus of BMS is the etiology (cause) of diseases that impact human life, effective disease diagnostics, and necessary treatment.

The SLIIT BSc (Honors) in Biomedical Science degree programme is based on theory and lab classes on the human body; for example, structure of the body and how it develops (Anatomy), How organs and cells work together to keep us healthy (physiology), the structure and function of biological molecules (Biochemistry, Genetics, Molecular Biology), how microorganisms cause disease (microbiology), how the body defends us (Immunology), how we use drugs to treat disease (Pharmacology) etc..

The study programme combines theory sessions facilitated by excellent and experienced educators, experiential learning in laboratories, seminars, workshops, world of work experience through internships, development of research skills, soft skills development through co-curricular and extra-curricular activities etc.

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| Duration | : 4 years | Entry: | February/ June |
| Location | : Malabe | Offered : | Weekdays |
| Examinations | : Weekdays/ Weekends | | |

CAREERS

- Postgraduate studies
- Biomedical scientist
- Clinical scientist
- Research scientist
- Forensic scientist
- Medicinal chemist
- Bioinformatician
- Nuclear science physicist

WORKING IN INDUSTRY

- Pharmaceutical industry
- Medical diagnostics
- Health promotion & policy
- Food technology

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| YEAR ONE SEMESTER 01 | SC11201 | Laboratory Safety and Instrumentation | 01 |
| | SC11213 | Analytical and Physical Chemistry | 03 |
| | SC11223 | Organic Chemistry | 03 |
| | SC11232 | Biochemistry I | 02 |
| | SC11243 | Cell Biology | 03 |
| | SC11252 | Mathematics and Biophysic | 02 |
| SEMESTER 02 | SC11262 | Molecular Biology I | 02 |
| | SC12273 | Biochemistry II | 03 |
| | SC12283 | Anatomy | 03 |
| | SC12293 | Physiology I | 03 |
| | SC12303 | Medical Physics | 03 |
| | SC12313 | General Microbiology | 03 |
| YEAR TWO SEMESTER 01 | SC21323 | Bioinformatics I | 03 |
| | SC21333 | Genetics | 03 |
| | SC21342 | Histology | 02 |
| | SC21353 | Physiology II | 03 |
| | SC21363 | Laboratory Quality Assurance and Accreditation | 03 |
| | SEMESTER 02 | SC22373 | Immunology |
| SC22382 | | Psychology | 02 |
| SC22393 | | Pathology | 03 |
| SC22403 | | Clinical Biochemistry | 03 |
| SC22412 | | Toxicology | 02 |
| SC22423 | | Parasitology | 03 |
| YEAR THREE SEMESTER 01 | SC31433 | Biostatistics | 03 |
| | SC31443 | Clinical Microbiology | 03 |
| | SC31453 | Pharmacology | 03 |
| | SC31463 | Molecular Biology II | 03 |
| | 2 Elective | | |
| | SC31473 | Genetic Engineering | 03 |
| SEMESTER 02 | SC31483 | Bioinformatics II | 03 |
| | SC32493 | Human Genome and Medical Biotechnology | 03 |
| | SC32503 | Cell and Molecular Biology of Cancer | 03 |
| | SC32513 | Practical and Professional Skills Portfolio (internship) | 03 |
| | SC32523 | Clinical Nutrition | 03 |
| | SC32532 | Immunology of Diseases | 02 |
| YEAR FOUR SEMESTER 01 | 2 Elective | | |
| | SC32542 | Protein Engineering | 02 |
| | SC32552 | Medical Informatic | 02 |
| | SC41563 | Hematology and Transfusion Science | 03 |
| | SC41573 | Introduction to Business Management and Entrepreneurship | 03 |
| | SC41583 | Experimental Design and Research Methodology | 03 |
| SEMESTER 02 | SC41593 | Epidemiology | 03 |
| | SC41602 | Independent Study and Seminar | 02 |
| | SC41612 | Stem Cell Biology and Regenerative Medicine | 02 |
| | SC41622 | Molecular Medicine | 02 |
| | 2 Elective | | |
| | SC41632 | Basics in Nanobiotechnology | 02 |
| SC41642 | Forensic in Medicine | 02 | |
| SEMESTER 02 | SC42658 | Research Project | 08 |