



2020

FACULTY OF COMPUTING  
STUDENT GUIDE

# THE NEXT YOU

The goals and decisions you pursue today will take you to the next level.

If your decision is to be “Tomorrow’s Great”, you Should join SLIIT, a globally recognised Higher Educational Institute.

## BE SMART. BE WISE

“The Next You” is determined by your next level of education in the fields of;  
**COMPUTING | BUSINESS | ENGINEERING | HUMANITIES AND SCIENCES | ARCHITECTURE**

- ▶ Scholarships worth over Rs. 50 Million
- ▶ A grant of Rs. 120 Million for new scientific research
- ▶ Internationally accredited lecturer panel
- ▶ Educational facilities of international standards

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**PROFESSOR**  
**CHANDIMAL**  
**JAYAWARDENA**  
DEAN-FACULTY OF COMPUTING

## MESSAGE FROM THE DEAN

*The Faculty of Computing is a vibrant community of undergraduate & postgraduate students, academics and researchers who represent a wide range of specializations. We are the oldest and the largest faculty of computing in Sri Lanka, which has gain a wide recognition locally as well-as internationally over a period of 19 years.*

*We are engaged in research in exciting cutting-edge research areas such as robotics & intelligent systems, artificial intelligence, cyber security, computer vision and image processing, data communication, high-performance computing, and software engineering. Faculty of Computing offers BSc(Hons), MSc, MPhil, and PhD programmes covering a range of specializations; Information Technology (IT), Software Engineering (SE), Data Science (DS), Information Systems Engineering (ISE), Computer Systems & Network Engineering (CSNE), Cyber Security (CS), and Interactive Media (IM). Our program portfolio is updated regularly capturing the dynamics of the industry.*

*Our degree programmes have been designed with consultation with the industry and relevant professional bodies. Our students have access to internationally recognized experts and we work with a range of partners in government, industry, local and foreign universities, and professional bodies such as IET, IEEE, BCS, and CSSL. Our programmes have been accredited by the IET, UK showing the international recognition of our programmes.*

*Our aim is to produce computing professionals of the future who will be life-long learners equipped with strong analytical, problem solving, and communication skills. Therefore, we endeavour to inculcate soft skills and learnability in our graduates by complementing classroom learning with a range of co-curricular and extracurricular activities.*

*Faculty of Computing of SLIIT provides you a conducive environment where you can explore new things and interact with a vibrant community of wonderful people. You will be able to discover your potential & own capabilities, and realize your aspirations.*



# COMPUTING DEGREES

The SLIIT Faculty of Computing is equipped with a range of programmes specialising in various arms of the IT sector. Students are able to choose a path that is most in line with their requirements, allowing them to pursue substantial careers in their selected field.

Combined with an in-house lecturer panel, expansive computer laboratories and hands-on learning, SLIIT provides its Faculty of Computing students with the ideal environment to develop their computing skills.

Our computing degrees are awarded by SLIIT as approved by the University Grants Commission. The institute is also a Member of the Association of Commonwealth Universities and International Association of Universities (IAU).

In addition to SLIIT computing programmes, students have the option of studying the Curtin University offshore programmes in Sri Lanka right here at SLIIT. Students can also complete their degree at one of SLIIT's partner universities in UK, USA, Canada or Australia.

## DEGREES - SLIIT BSc HONOURS DEGREES

Duration	: 4 Years
Entry	: February / June / September
Location	: Malabe / Colombo / Matara / Kandy / Kurunegala / Jaffna
Offered	: Weekdays / Weekend

## ACADEMIC & PROFESSIONAL RECOGNITION

- Approved by the University Grants Commission under the Universities Act
- Member of the Association of Commonwealth Universities
- Accredited by the Institute of Engineering & Technology (IET), UK

This degree allows students the following options, upon successful completion of the prescribed modules:

**End of 2nd year: Higher Diploma in Information Technology**

**End of 4th year: BSc Honours degree in Information Technology in the respective specialisation**

Students have the option of exiting a course, should they be faced with restrictive circumstances. Whilst they can rejoin at a later date, such requirements are subject to relevant registration procedures and approval by SLIIT.



## SOFTWARE ENGINEERING

*Software engineering is the discipline of designing, creating and maintaining software by applying technologies and practices from computer science, project management, engineering, application domains, interface design, digital asset management and other fields.*

### CAREER OPPORTUNITIES

- Software Engineers
- Mobile Application Developers
- Full Stack Developers
- UI/UX Engineers
- System Analysts

### ENTRY REQUIREMENTS

Passes in three subjects (in any subject stream) at the G.C.E. Advanced Level Examination (Sri Lanka / London) in one and the same sitting, and a pass at the Aptitude Test conducted by SLIIT. To progress from the second year to the third year of the program, a student must pass all the modules up to the second year and maintain a minimum CGPA of 2.7.

## YEAR ONE

### SEMESTER 01

IT 1010	Introduction to Programming	04
IT 1020	Introduction to Computer Systems	04
IT 1030	Mathematics for Computing	04
IT 1040	Communication Skills	03

### SEMESTER 02

IT 1050	Object Oriented Concepts	02
IT 1060	Software Process Modeling	03
IT 1080	English for Academic Purposes	03
IT 1090	Information Systems and Data Modeling	04
IT 1100	Internet and Web Technologies	04

## YEAR TWO

### SEMESTER 01

IT2020	Software Engineering	04
IT2030	Object Oriented Programming	04
IT2040	Database Management Systems	04
IT2050	Computer Networks	04
IT2060	Operating Systems and System Administration	04

### SEMESTER 02

IT2010	Mobile Application Development	04
IT2070	Data Structures and Algorithms	04
IT2080	IT Project	04
IT2090	Professional Skills	02
IT2100	Employability Skills Development –Seminar (Non GPA)	01
IT 2110	Probability and Statistics	03

## YEAR THREE

SE3010	Software Engineering Process & Quality Management	04
SE3020	Distributed Systems	04
SE3030	Software Architecture	04
SE3040	Application Frameworks	04
IT3050	Employability Skills Development – Seminar (Non GPA)	01
SE3050	User Experience Engineering	03
SE3060	Database Systems	04
SE3070	Case Studies in Software Engineering	04
SE3080	Software Project Management	03
IT3110	Industry Placement (Non-GPA)	08

## YEAR FOUR

IT4010	Research Project	16
IT4070	Preparation for the Professional World (Non GPA)	02
SE4010	Current Trends in Software Engineering	04
SE4030	Secure Software Development	04
<b>Two Electives from the Following</b>		
IT4130	Image Understanding & Processing	04
IT4060	Machine Learning	04
IT4040	Enterprise Application Development	04
SE4020	Mobile Application Design & Development	04
SE4050	Deep Learning	04
SE4060	Parallel Computing	04
IE4060	Robotics and Intelligent Systems	04

\* Electives to be chosen with prior approval



## INFORMATION TECHNOLOGY

*The programme is designed for technically focused students who required to develop strong professional & academic capabilities in programming. You will develop strong technical skills in the areas of software design and software engineering, operating systems, systems administration and technical support, and networking.*

### CAREER OPPORTUNITIES

- ICT Infrastructure Engineers
- System and Data Administrators
- Information Assurance Engineers
- Software Quality Assurance Engineers
- Web Developers
- Software Engineers
- Data Engineers
- Network Engineers
- IT Managers,
- IT Educationists.

### ENTRY REQUIREMENTS

Passes in three subjects (in any subject stream) at the G.C.E. Advanced Level Examination (Sri Lanka / London) in one and the same sitting, and a pass at the Aptitude Test conducted by SLIIT.



## YEAR ONE

<b>SEMESTER 01</b>	IT 1010	Introduction to Programming	04
	IT 1020	Introduction to Computer Systems	04
	IT 1030	Mathematics for Computing	04
	IT 1040	Communication Skills	03
<b>SEMESTER 02</b>	IT 1050	Object Oriented Concepts	02
	IT 1060	Software Process Modeling	03
	IT 1080	English for Academic Purposes	03
	IT 1090	Information Systems and Data Modeling	04
	IT 1100	Internet and Web Technologies	04

## YEAR TWO

<b>SEMESTER 01</b>	IT2020	Software Engineering	04
	IT2030	Object Oriented Programming	04
	IT2040	Database Management Systems	04
	IT2050	Computer Networks	04
	IT2060	Operating Systems and System Administration	04
<b>SEMESTER 02</b>	IT2010	Mobile Application Development	04
	IT2070	Data Structures and Algorithms	04
	IT2080	IT Project	04
	IT2090	Professional Skills	02
	IT2100	Employability Skills Development –Seminar (Non GPA)	01
	IT 2110	Probability and Statistics	03

## YEAR THREE

IT3010	Network Design and Management	04
IT3020	Database Systems	04
IT3030	Programming Applications & Frameworks	04
IT3040	IT Project Management	04
IT3050	Employability Skills Development - Seminar (Non GPA)	01
IT3060	Human Computer Interaction	03
IT3070	Information Assurance & Security	04
IT3080	Data Sceince & Analytics	04
IT3090	Business Management for IT	03
IT3110	Industry Placement (Non-GPA)	08

## YEAR FOUR

IT4010	Research Project	16
IT4020	Modern Topics in IT	04
IT4070	Preparation for the Professional World (Non GPA)	02
<b>Three Electives of the Following*</b>		
IT4030	Internet of Things	04
IT4040	Database Administration	04
IT4050	Innovation Management & Entrepreneurship	04
IT4060	Machine Learning	04
IT4090	Cloud Computing	04
IT4100	Software Quality Assurance	04
IT4110	Computer Systems and Network Administration	04
IT4120	Knowledge Management	04
SE4050	Deep Learning	04
SE4060	Parallel Computing	04
IE4020	Enterprise Standards for Information Systems	04
IE4040	Information Assurance and Auditing	04
IE4060	Robotics and Intelligent Systems	04

\* Electives to be chosen with prior approval



## DATA SCIENCE

*The meticulous curriculum focuses on the fundamentals of computer science, statistics, and applied mathematics, while incorporating real-world examples. Graduates are prepared to succeed in specialized jobs involving everything from the data pipeline and storage, to statistical analysis discovering new insights with optimized decision making.*

### CAREER OPPORTUNITIES

- Data Engineer
- Business Intelligence Engineer
- Data Scientist
- Software Engineer
- Big Data Engineer
- Data Analyst
- Data Architect
- Database Administrator Machine Learning Engineer
- Big Data Application Developer
- DevOps Engineers
- Data Science Specialist

### ENTRY REQUIREMENTS

Passes in three subjects (in any subject stream) at the G.C.E. Advanced Level Examination (Sri Lanka / London) in one and the same sitting, and a pass at the Aptitude Test conducted by SLIIT. To progress from the second year to the third year of the program, a student must pass all the modules up to the second year and maintain a minimum CGPA of 2.7.

## YEAR ONE

### SEMESTER 01

IT 1010	Introduction to Programming	04
IT 1020	Introduction to Computer Systems	04
IT 1030	Mathematics for Computing	04
IT 1040	Communication Skills	03

### SEMESTER 02

IT 1050	Object Oriented Concepts	02
IT 1060	Software Process Modeling	03
IT 1080	English for Academic Purposes	03
IT 1090	Information Systems and Data Modeling	04
IT 1100	Internet and Web Technologies	04

## YEAR TWO

### SEMESTER 01

IT2020	Software Engineering	04
IT2030	Object Oriented Programming	04
IT2040	Database Management Systems	04
IT2050	Computer Networks	04
IT2060	Operating Systems and System Administration	04

### SEMESTER 02

IT2010	Mobile Application Development	04
IT2070	Data Structures and Algorithms	04
IT2080	IT Project	04
IT2090	Professional Skills	02
IT2100	Employability Skills Development –Seminar (Non GPA)	02
IT 2110	Probability and Statistics	03

## YEAR THREE

IT3030	Programming Applications and Frameworks	04
IT3011	Theory and Practices in Statistical Modelling	04
IT3021	Data Warehousing and Business Intelligence	04
IT3031	Database Systems and Data-Driven Application	04
IT3060	IT3041 Information Retrieval and Web Analytics	04
IT3051	Fundamentals of Data Mining	04
IT3061	Massive Data Processing and cloud Computing	04
IT3071	Machine Learning and Optimization Methods	04
IT3110	Industry Placement (Non-GPA)	08

## YEAR FOUR

IT4010	Research Project	16
IT4070	Preparation for the Professional World (Non GPA)	02
IT4011	Database Administration and Storage Systems	04
IT4021	Internet of Things and Big Data Analytics	04
IT4031	Visual Analytics and User Experience Design	04
IT4041	Introduction to Information Security Analytics	04

\* Electives to be chosen with the prior approval of the Academic Department



## COMPUTER SYSTEMS & NETWORK ENGINEERING

*The programme aims to provide students with the knowledge, skills and comprehension required to allow them to contribute to the planning, design and management of modern network based computer systems. The degree programme delivers an extensive knowledge on computer hardware, network engineering, embedded systems, communication systems, interface design and automation.*

### CAREER OPPORTUNITIES

- Network Engineers
- Network Administrators
- Computer Systems Engineers
- Computer Systems Administrators
- Database Administrators
- Cloud Systems Engineers
- Scripting Engineers
- DevOps Engineers
- Security Engineers
- Infrastructure Engineers
- Network Architects
- Virtualization Engineers
- Backup Storage
- Engineers Voice
- Engineers and Network Designers

### ENTRY REQUIREMENTS

Three passes including a pass obtained for Mathematics or Physics, or three passes in Engineering Technology Stream at the G.C.E. Advanced Level Examination (Sri Lanka/ London or Equivalent) obtained at one & the same sitting and a pass in the Aptitude Test conducted by SLIIT

## YEAR ONE

<b>SEMESTER 01</b>	IT1010	Introduction to Programming	04
	IT1020	Introduction to Computer Systems	04
	IT1030	Mathematics for Computing	04
	IT1040	Communication Skills	02
<b>SEMESTER 02</b>	IT1050	Object Oriented Concepts	02
	IT1090	Information Systems and Data Modeling	04
	IT1080	English for Academic Purposes	02
	IE1010	Engineering Mathematics	03
	IE1020	Network Fundamentals	04

## YEAR TWO

<b>SEMESTER 01</b>	IE2020	Routing & Switching	04
	IE2030	Analog Electronics	02
	IE2080	Database Systems Administration	04
	IE2010	Digital Electronics	02
	IT2030	Object Oriented Programming	04
<b>SEMESTER 02</b>	IE2040	Advanced Internetworking	04
	IE2060	Computer Systems Administration	04
	IE 2050	Operating Systems	04
	IE2090	Professional Engineering Practice and Industrial Management	04
	IE2070	Embedded Systems	04
	IT2100	Probability and Statistics	03

## YEAR THREE

IE3010	Network Programming	04
IE3020	Directory Services and Network Management	04
IE3030	Wide area Networks	04
IE3040	Information Storage Management	04
IE3050	Wireless Communications	04
IE3060	Business Management for IT	02
IE3070	Network Technology Project	04
IE3080	Network Security Engineering	04
IT3110	Industry Placement (Non-GPA)	08

## YEAR FOUR

IT4010	Research Project	16
IT4070	Preparation for Professional World (Non-GPA)	02
<b>Four Electives from the Following*</b>		
IE4040	Information Assurance and Auditing	04
IE4060	Robotics & Intelligent Systems	04
IE4020	Enterprise Standards for Information Systems	04
IE4010	Information Security Management	04
IE4080	Software Defined	04
IE4050	Parallel and distributed computing	04
IT4030	Internet of Things	04
IE4070	Design and Management of Enterprise Network	04
IE4030	Virtualization and Cloud Computing Technologies	04

\* Electives to be chosen with the prior approval of the Academic Department



## CYBER SECURITY

*The course is designed for students who wish to gain an accelerated early career in cyber/information security. It will prepare you for a successful career in the various roles directly and indirectly connected to the world of computer, network and information security.*

### CAREER OPPORTUNITIES

- Cyber Security professionals
- Network Security Specialists
- Operations and Security Managers
- Incident and Threat managers
- Systems Architects
- Risk analysts and Risk Managers
- Forensic analysts
- Security Operations Center (SOC) Analysts

### ENTRY REQUIREMENTS

Passes in three subjects (in any stream) at the G.C.E (Advanced Level) examination (Sri Lanka / London) in one and the same sitting and a pass at the Aptitude test conducted by SLIIT. To progress from the first year to the second year of the specialisation, a student must pass a selection interview.

## YEAR ONE

### SEMESTER 01

IT 1010	Introduction to Programming	04
IT 1020	Introduction to Computer Systems	04
IT 1030	Mathematics for Computing	04
IT 1040	Communication Skills	03

### SEMESTER 02

IT 1050	Object Oriented Concepts	02
IT 1060	Software Process Modeling	03
IT 1080	English for Academic Purposes	03
IT 1090	Information Systems and Data Modeling	04
IT 1100	Internet and Web Technologies	04

## YEAR TWO

### SEMESTER 01

IT2020	Software Engineering	04
IT2030	Object Oriented Programming	04
IT2040	Database Management Systems	04
IT2050	Computer Networks	04
IT2060	Operating Systems and System Administration	04

### SEMESTER 02

IT2010	Mobile Application Development	04
IT2070	Data Structures and Algorithms	04
IT2080	IT Project	04
IT2090	Professional Skills	02
IT2100	Employability Skills Development –Seminar (Non GPA)	01
IT 2110	Probability and Statistics	03

## YEAR THREE

IE3012	Introduction to Cyber Security	02
IE3022	Applied Information Assurance	04
IE3032	Network Security	04
IE3042	Secure Software Systems	04
IE3052	Information Security Risk Management	02
IE3062	Data and Operating System Security	04
IE3072	Information Security Policy and Management	02
IE3082	Cryptography	04
IE3092	Information Security Project	04
IE3102	Enterprise Standards for Information Security	02
IT3110	Industry Placement (Non-GPA)	08

## YEAR FOUR

IT4010	Research Project	16
IT4070	Preparation for the Professional World (Non-GPA)	02
<b>Four Electives from the Following*</b>		
IE4012	Offensive Hacking: Tactical and Strategic	04
IE4042	Secure Software Engineering	04
IE4092	Machine Learning for Cyber Security	04
IT4070	Preparation for Professional World	
IE4022	Security Economic Analysis	04
IE4032	Information Warfare	04
IE4052	Hardware Security	04
IE4062	Cyber Forensics and Incident Response	04
IE4072	Governance and Cyber Law Clinic	04

\* Electives to be chosen with the prior approval of the Academic Department



## INFORMATION SYSTEMS ENGINEERING

*Information systems engineering specialty programme is the key to develop and manage complex systems that solve real-world problems. The students get to enhance their knowledge on areas namely, Project management, Software quality assurance, Data management so on so forth.*

### CAREER OPPORTUNITIES

- Business Analysts
- Systems Analysts
- ERP Specialists
- CIOs e-Business Consultants
- Product Owners Release Managers
- IS Support Engineers
- IS Administrators
- Database Administrators
- Information Systems Engineers
- IS Project Managers and Business (process) Consultants

### ENTRY REQUIREMENTS

Passes in three subjects (in any subject stream) at the G.C.E. Advanced Level Examination (Sri Lanka / London) in one and the same sitting, and a pass at the Aptitude Test conducted by SLIIT.



## YEAR ONE

<b>SEMESTER 01</b>	IT 1010	Introduction to Programming	04
	IT 1020	Introduction to Computer Systems	04
	IT 1030	Mathematics for Computing	04
	IT 1040	Communication Skills	03
<b>SEMESTER 02</b>	IT 1050	Object Oriented Concepts	02
	IT 1060	Software Process Modeling	03
	IT 1080	English for Academic Purposes	03
	IT 1090	Information Systems and Data Modeling	04
	IT 1100	Internet and Web Technologies	04

## YEAR TWO

<b>SEMESTER 01</b>	IT2040	DataBase Management Systems	04
	IE2021	Object Oriented Programming	04
	IE2031	Structured Analysis and Design	04
	IE2041	Information Systems Analysis	04
<b>SEMESTER 02</b>	IT2090	Professional Skills	02
	IE2051	Information Systems Project	04
	IE2061	Operating Systems and Systems Administration	04
	IE2071	Design and Management of Computing Infrastructure	04
	IE2081	Object Oriented Analysis and Design	04
	IT2100	Employability Skills Development –Seminar (Non GPA)	01

## YEAR THREE

IE3011	IS Project Management	03
IE3021	Organizational Business Functions I	03
IE3031	Management Information Systems	03
IE3041	Data Management and Business Intelligence	04
IE3051	E Business Strategy & Architecture and Design	03
IE3061	Information Security Management	04
IE3071	Organizational Business Functions II	03
IE3081	Enterprise Resource Planning	04
IE3091	Information Systems Strategic Management	03
IT3110	Industry Placement (Non-GPA)	08

## YEAR FOUR

IT4010	Research Project	16
IT4070	Preparation for the Professional Worl (Non-GPA)	02
IE4011	Business Process Managemet	04
<b>Three Elective Modules of the Following*</b>		
IE4071	Practicing Business Analyst	04
IE4151	Human Resoure Information Systems	04
IE4040	Information Assurance and Auditing	04
IT4100	Software Quality Assurance	04
IT4120	Knowledge Management	04
IE4131	Human Computer Interaction	04

\* Electives to be chosen with the prior approval of the Academic Department



## INTERACTIVE MEDIA

*Our Interactive Media degree will give you the capability to create the new varieties of interactive media content that are transforming our society and culture. The unique multidisciplinary degree brings together technical, creative and socio-cultural perspectives through Design Ideation, 3D Modeling & Animation, and Digital Video Production Etc*

### CAREER OPPORTUNITIES

- UX/UI Engineer
- Game Technologist
- Web Developer
- Production Manager
- 3D Modelers
- 2D/3D Visual Concept Designers
- Advertising Media Specialists
- Cinematographer
- Audio Production Specialist
- Multimedia Programmer
- Visual Concept Designer
- Game Designer/Developer
- Creative Director
- Mobile Application Developer
- 2D/3D Animators
- Digital Marketing Specialists
- Interactive Designer
- Video/Visual Production Specialist
- Multimedia Developer
- Broadcasting Technologist

### ENTRY REQUIREMENTS

Passes in three subjects (in any subject stream) at the G.C.E. Advanced Level Examination (Sri Lanka / London) in one and the same sitting, and a pass at the Aptitude Test conducted by SLIIT.

## YEAR ONE

### SEMESTER 01

IT 1010	Introduction to Programming	04
IT 1020	Introduction to Computer Systems	04
IT 1030	Mathematics for Computing	04
IT 1040	Communication Skills	03

### SEMESTER 02

IT 1050	Object Oriented Concepts	02
IT 1060	Software Process Modeling	03
IT 1080	English for Academic Purposes	03
IT 1090	Information Systems and Data Modeling	04
IT 1100	Internet and Web Technologies	04

## YEAR TWO

### SEMESTER 01

IT2020	Software Engineering	04
IT2030	Object Oriented Programming	04
IT2040	Database Management Systems	04
IT2050	Computer Networks	04
IT2060	Operating Systems and System Administration	04

### SEMESTER 02

IT2010	Mobile Application Development	04
IT2070	Data Structures and Algorithms	04
IT2080	IT Project	04
IT2090	Professional Skills	02
IT2100	Employability Skills Development –Seminar (Non GPA)	01
IT 2110	Probability and Statistics	03

## YEAR THREE

SE3011	Technical Evolution of Multimedia	04
SE3021	Design Ideation & Creative Communication	04
SE3061	User Experience Designing	03
SE3081	Digital Marketing Strategies	03
IT3050	Employability Skills Development - Seminar (Non GPA)	01
SE3031	3D Modeling & Animation	04
SE4011	Games Technology	04
SE3041	Digital Video Production & Delivery	04
SE3071	Digital Image Processing	04
IT3110	Industry Placement (Non-GPA)	08

## YEAR FOUR

IT4010	Research Project	16
IT4070	Preparation for the Professional World (Non GPA)	02
SE4031	Games Development	04
SE4041	Mobile Application Design and Development	04
SE4021	Multimedia-Based Instruction Designing	04
SE3051	Multimedia Project Management	04

\* Electives to be chosen with the prior approval of the Academic Department



IN PARTNERSHIP WITH



Curtin University

## INTERNATIONAL DEGREE PROGRAMMES TO COMPLETE AT SLIIT

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### BACHELOR OF INFORMATION TECHNOLOGY

#### ABOUT THE PROGRAMME

Information technologists, computer scientists, software engineers, programmers and other computing professionals are experts on how technology works, and how computing can address even the most complicated and intricate problems.

This course can provide you with the skills and knowledge you need for a successful career in the rapidly evolving information and communications technology industry. In your first year, you will develop your programming skills and study the fundamental theoretical knowledge of computing.

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### BACHELOR OF COMPUTING (SOFTWARE ENGINEERING)

#### ABOUT THE PROGRAMME

Software engineers incorporate the latest technology in the design and implementation of large-scale software systems for commercial purposes. This course aims to produce graduates who are well-versed in the principles of design, measurement and analysis applied in the context of the development of software-based systems.

You will receive a strong foundation in computer science, with further emphasis on software requirements gathering, design, implementation and testing. You will also focus on communication skills, professional responsibility, ethics, interpersonal relationships, teamwork, and time management. In your final year, you will undertake an industry-based project.

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### BACHELOR OF SCIENCE (COMPUTER SYSTEMS & NETWORKING)

#### ABOUT THE PROGRAMME

Computer networks form the backbone of modern information systems. This course will help you fully understand computer network design and development technologies so you can pursue career opportunities in this rapidly expanding field. You will develop skills in network design and management, the convergence of IT and telecommunications, embedded systems, computer hardware and software, real-time systems and IT technical support. Your focus will be on the design and support of distributed computer and telecommunications networks.

# SUCCESS STORIES



## **DIMUTHU RATNAYAKE**

BSc (Hons) in  
Computer Systems and Networking  
SHU, UK

**EMEA EQUITIES PROGRAM TRADING  
J.P. MORGAN**

*Information Technology should no longer be viewed merely as a subject of study or career path. It is ubiquitous, and our technological literacy has a direct impact on how successfully we interact with the world around us. When I joined the Computer Systems and Networking program at SLIIT in 2003, the fledgling institution already had a clear vision of providing students with an environment in which to immerse themselves in cutting edge technology and ideas. This was also my first experience of true collaboration with like minded individuals; be it fellow students or staff, without being spoon-fed lessons or handheld during assignments, projects, or exams. A true preparation for the “real world” when one joins the workforce and face life in general as an adult.*

*The fundamentals I learned at SLIIT gave me confidence to not only face, but “ace” my interview at Fidessa, the world’s #1 Equities Trading Platform providers. I subsequently worked in Technology teams at three investment banks in London; Royal Bank of Scotland, Barclays Capital, and JP Morgan. Holding a First-Class degree at the top of my batch became less relevant with time, as subject knowledge became obsolete. I believe my commitment to a lifetime of learning beyond formal education has helped me adapt to change and make progress in my career. After a ten year career in IT roles, I joined the Equities Trading Desk at JP Morgan in 2017. In today’s rapid electronic Stock Markets and Algorithmic Trading world, complementary skills and experience in technology and finance are highly valued by the industry. It is an exciting job that requires mental agility and creativity. I work with a vast amount of data and help develop Artificial Intelligence based trading strategies, as well as collaborate with our technology teams so they provide true solutions to our needs. I balance my hectic work life by playing cricket for the Wimbledon Cricket Club in the Surrey League, and travelling and exploring the world with my wife Gayani.*



## **CHAMIRA JAYASINGHE**

BSc (Hons) in Information Technology - SLIIT

**FOUNDER / CEO – ARIMAC**

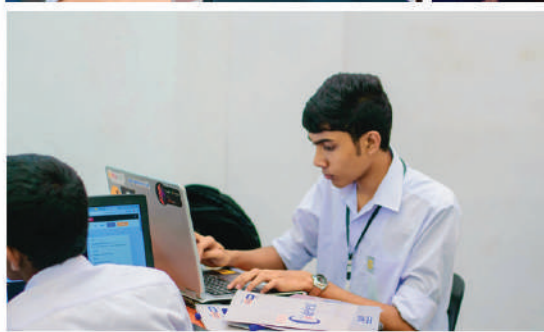
*An annual robotic competition organised by the SLIIT Faculty of Engineering, the competition was first held in 2010, where only SLIIT students were encouraged to participate. In 2011, the competition was expanded to accommodate interested students from all around the country. designed, developed and integrated to enrich and cultivate the younger generation to be well-rounded individuals.*



# CODEFEST

An annual event hosted by the SLIIT Faculty of Computing, this is one of the biggest software competitions aimed at encouraging and promoting software application design amongst school and university students. The annual increase in entries, fierce competition amongst students and a rise in event categories, has made Codefest an event looked forward to by many schools and universities.

'Codefest is one of the many initiatives taken by SLIIT, aimed at creating a centre of excellence to advance and disseminate knowledge. It is indeed a great honour to have one of our events recognised by the Ministry of Telecommunications and Digital Infrastructure. Codefest is an ideal platform to promote the application of skills learnt through ICT related modules taught in schools and universities' notes Professor Lalith Gamage: President and CEO of SLIIT.



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# BSc HONOURS GRADES AND REQUIREMENTS

## GRADING SYSTEM

SLIIT uses 12 grades in assessing student performance. These are A+, A, A-, B+, B, B-, C+, C, C-, D+, D and E. To obtain a pass in a subject, a student must score a grade 'C' or above. The value of each grade and definition of student performance is shown below.

GRADE	GRADE PTS.	MARKS RANGE
A+	4.00	90 - 100
A	4.00	80 - 89
A-	3.70	75 - 79
B+	3.30	70 - 74
B	3.00	65 - 69
B-	2.70	60 - 64
C+	2.30	55 - 59
C	2.00	45 - 54
C-	1.70	40 - 44
D+	1.30	35 - 39
D	1.00	30 - 34
E	0.00	00 - 29

## GRADE POINT AVERAGE (GPA) PER SEMESTER

The GPA is computed by dividing the sum of the products of the number of credits for each course followed and the grade points earned for that course by a student, by the total number of credits for the courses followed during the semester by that student.

## CLASS ATTENDANCE

Regular attendance is expected from all students. 80% attendance is necessary as a minimum requirement to sit examinations. Inability to attend classes and/or examinations must be brought to the notice of the Manager of Student Affairs immediately.

## WEIGHTED GRADE POINT AVERAGE (WGPA)

FACULTY	Y1	Y2	Y3	Y4
FOC	0	20%	30%	50%



## WHAT'S NEXT?

*Embark on your pathway to greatness with our extensive degree programme options at SLIIT. Please follow the application guidelines below.*

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Apply Online [apply.sliit.lk](http://apply.sliit.lk)

**Option 02:**  
Download the application form [apply.sliit.lk](http://apply.sliit.lk)  
Send the duly filled application form to  
**MANAGER STUDENT ENROLLMENT, SLIIT, NEW KANDY ROAD, MALABE**

**Option 03:**  
Obtain the application form from any of our campuses or centres

**Option 04:**  
Call our hotline for further information

# 011 754 4801

[www.sliit.lk](http://www.sliit.lk)

[info@sliit.lk](mailto:info@sliit.lk)

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Fax : +94 11 241 3901

- **SLIIT METROPOLITAN CAMPUS**

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# SLIIT

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