



Experiment. Experience. Excel.

# STUDENT GUIDE

2023 - 24



BUILDING FUTURE-READY SKILLS



## OUR VISION

To prepare our students for the future by inculcating a culture of open, life-long learning and a commitment to excellence.



## OUR MISSION



Create an academe-industry ecosystem that provides experiential learning opportunities for students to build job skills in emerging science, technology, and business domains





Experiment. Experience. Excel.

## WHO ARE WE?

NorthernUni is an education initiative by the MAGICK Group in collaboration with SLIIT, which is the largest non-state degree awarding institute in Sri Lanka. This partnership brings best-in-class IT and business programmes to Jaffna. Students of these programs are job-ready and have high placement numbers in their respective fields.

MAGICK Group is a 30-year-old multinational group with interests in home interiors, IT products/services, and education. The group has a global presence with brands such as MagickWoods, MagickTech, MagickHome, and NorthernUni.

NorthernUni's strong industry connections provide students with opportunities for industry interactions, internships, and employment. Through this, our students build job-ready skills in emerging science, technology, and business domains.

NorthernUni is building a state-of-the-art campus in the heart of Jaffna. The Jaffna campus will have cutting-edge computer lab facilities, an extensive library, digital infrastructure and tech-enabled classrooms.

At NorthernUni, we focus on preparing our students for the future. Students will have access to:

- Industry-relevant academic programmes, pathways, and credentials for **emerging job roles**
- An upskilling and reskilling framework that supports **lifelong learning**.
- Language, cross-cultural, and work etiquette credentials that will help in improving **job placements**.
- Onsite and virtual **internship** programmes
- A **start-up ecosystem** with incubators/ accelerators, shared services, mentoring and funding support.



■ TECHNOLOGY ENABLED CLASSROOMS

■ STATE-OF-THE-ART INFRASTRUCTURE





SLIIT has an honoured history and a continued thirst for achievement characterised by the tireless pursuit of accreditations & collaborations.

It is the first Sri Lankan institute to be accredited by the Institution of Engineering and Technology UK, for Information Technology degrees. Its degrees are also approved by the University Grants Commission under the Universities Act & the Ministry of Education. SLIIT is ranked first in QS South Asia rankings in the non-state sector.

The institute is a Member of the Association of Commonwealth Universities and International Association of Universities (IAU). SLIIT offers a wide range of study

areas, including Bachelor's, Master's and PhD degrees in Computing, Business, Engineering, Architecture, Quantity Surveying, Psychology, Law, Nursing, Education and Sciences. SLIIT also connects people both locally and globally. We have more than 50 industry partners and collaborative agreements with foreign universities to broaden our horizons.

Since its inception in 1999, SLIIT has successfully established an environment that is conducive to learning throughout all its campuses and centres. The institute has two campuses in Malabe and Colombo and four regional centres.

Having started out with a mere 400 students, today, the institute boasts a student population of over 15,000. Together with superior research facilities and optimum resources, SLIIT is able to encourage students to reach new heights in both innovation and excellence.

In collaboration with NorthernUni, SLIIT brings modern facilities, experienced

lecturers and an educational experience that is available in Colombo and Malabe to Jaffna. These are 4-year programmes with the flexibility to exit and/or rejoin at each level and continue through to graduation.







# COURSES OFFERED

## FACULTY OF COMPUTING

NorthernUni's Faculty of Computing offers BSc (Honors) in Information Technology specializing in Information Technology, Software Engineering, Computer Systems and Network Engineering, Information Systems Engineering, Cyber Security, Interactive Media, and Data Science.

With state-of-the-art computer labs, virtual lab environments,

and focus on application-based learning, NorthernUni provides its Faculty of Computing students with the ideal environment to develop their computing skills to be employable in fast growing IT industry.

Our computing degrees are awarded by SLIIT as approved by the UGC under the Universities Act and the Ministry of Education and Higher Education.



**4 yrs**



**Feb/Jun**



**Jaffna**



**Weekdays/  
Weekends**



**Weekdays/  
Weekends**

# INFORMATION TECHNOLOGY

## About the Programme

The programme inculcates the right combination of theory and practical, hands-on expertise on how to take care of both an organisation's information technology infrastructure and the people who use it. A graduate of this programme is capable of developing/selecting hardware and software products appropriate for an organisation, integrate those products with organisational needs and infrastructure, and install, customise, and maintain those applications.

This programme is designed for students who wish to build a solid technical foundation in information technology and apply that knowledge to design, deploy, and maintain IT infrastructure in organizations. The programme covers a wide range of key knowledge areas related to Information Technology, including Programming, Software Engineering, Networking, Database Management Systems, Operating Systems, Web Technologies, and Human-Computer Interaction.

## ENTRY REQUIREMENTS

- Minimum 3 "S" passes in G.C.E A/L (Sri Lanka)
- OR** Minimum 3 "D" passes in G.C.E A/L Cambridge or Edexcel (in any subject stream) in a single sitting
- AND** Pass the Aptitude Test conducted by NorthernUni

The graduates are also exposed to other vital areas, such as Systems Administration, Technical Support, Project Management, Accounting, Marketing, Entrepreneurship, and Business management.



## CAREER OPPORTUNITIES

- ICT Infrastructure Engineers
- Information Assurance Engineers
- Software Quality Assurance Engineers
- Software Engineers
- Network Engineers
- DevOps Engineers
- Project Coordinators
- Business Analysts
- IT Managers
- IT Educationists



# COMPUTER SYSTEMS & NETWORK ENGINEERING

## About the Programme

This program is focused on design, development and maintenance of computer and data communication networks. It also covers skills to design and maintain services required to secure enterprise network infrastructure.

It includes a wide range of key knowledge areas related to computer systems and networking including network design and management, the convergence of IT and telecommunications, embedded systems, computer hardware and software, real-time systems and IT technical support.

The programme is especially designed to improve the students' knowledge on theories, principles, and practices in computer network engineering.



## ENTRY REQUIREMENTS

Minimum 3 "S" passes in G.C.E. A/L (Sri Lanka) including Physics and Combined Mathematics

**OR** Minimum "3D" passes in G.C.E. A/L Cambridge or Edexcel including Physics and Mathematics in one sitting

**AND** Pass the Aptitude Test conducted by NorthernUni

# SOFTWARE ENGINEERING

## About the Programme

This programme focuses on applying software engineering theories and practices to design, develop, and maintain solutions for complex real-world problems through a sequence of processes including problem identification, analysis, software design, development, verification and documentation.

Solutions may range from single-user applications to enterprise-level applications that can scale globally.

The programme covers a wide range of key knowledge areas related to software engineering including requirements engineering, object-oriented analysis and design, full-stack development, mobile application development, enterprise-level application development, architecting software

## ENTRY REQUIREMENTS

Minimum 3 "S" passes in G.C.E A/L (Sri Lanka)

**OR** Minimum 3 "D" passes in G.C.E A/L Cambridge or Edexcel (in any subject stream) in a single sitting

**AND** Pass the Aptitude Test conducted by NorthernUni

applications that can scale globally, software quality assurance, user interaction/user experience design and industry best practices for developing software.

It aims to instill a solid foundation in the entire software development lifecycle and equip students with both theoretical and practical skills.

Students have an opportunity to intern for 3 to 6 months at an organisation at the end of their third academic year.

## 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
- Virtualisation Engineers
- Backup Storage Engineers
- Network Designers



## CAREER OPPORTUNITIES

- Software Engineer
- Mobile Application Engineer
- UI/UX Engineer
- Full Stack Developer
- Web Application Developer
- DevOps Engineer
- Machine Learning Engineer
- Quality Assurance Engineer
- Cloud Software Engineer
- Site Reliability Engineer



# DATA SCIENCE

## About the Programme

The meticulous curriculum of Data Science 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 and eliciting the story that data tells. Students will cover multiple facets of data science including Data Warehousing & Business Intelligence (BI), Data Mining and Analytics, Cloud Computing, Machine Learning, Big Data Analytics, and Visual Analytics.



## ENTRY REQUIREMENTS

Minimum 3 "S" passes in G.C.E A/L (Sri Lanka)

**OR** A minimum 3 "D" passes in G.C.E A/L Cambridge or Edexcel (in any subject stream) in one sitting

**AND** Pass the Aptitude Test conducted by NorthernUni

To progress from the second year to the third year of the specialisation, a student must meet the minimum GPA requirement specified by the faculty.

# CYBER SECURITY

## About the Programme

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. The course covers various aspects of security, including mobile, network, Data/Information, Hardware and Operating Systems security. It also examines real world issues related to Governance, Information Warfare, Cyber Forensics, and Ethical Hacking.

## ENTRY REQUIREMENTS

Minimum 3 "S" passes in G.C.E A/L (Sri Lanka)

**OR** Minimum 3 "D" passes in G.C.E A/L Cambridge or Edexcel (in any subject stream) in one sitting

**AND** Pass the Aptitude Test conducted by NorthernUni

To progress from the first year to the second year of the specialisation, a student must meet the minimum GPA requirement specified by the faculty.

## CAREER OPPORTUNITIES

- Big Data Engineer
- Data Analyst
- Data Scientist
- Business Intelligence Engineer
- Software Engineer
- Data Architect
- Database Administrator
- Consultant, Business Analytics
- Machine Learning Engineer
- Big Data Application Developer
- Data Science Specialist



## CAREER OPPORTUNITIES

- Cyber Security Professionals
- Network Security Specialists
- Operations and Security Managers
- Incident and Threat Managers
- Systems Security Architects
- Risk Analysts and Risk Managers
- Computer Forensics Investigators
- Security Operations Center (SOC) Analysts



# INTERACTIVE MEDIA

## About the Programme

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 Modelling & Animation, and Digital Video Production

## ENTRY REQUIREMENTS

Minimum 3 "S" passes in G.C.E A/L (Sri Lanka)

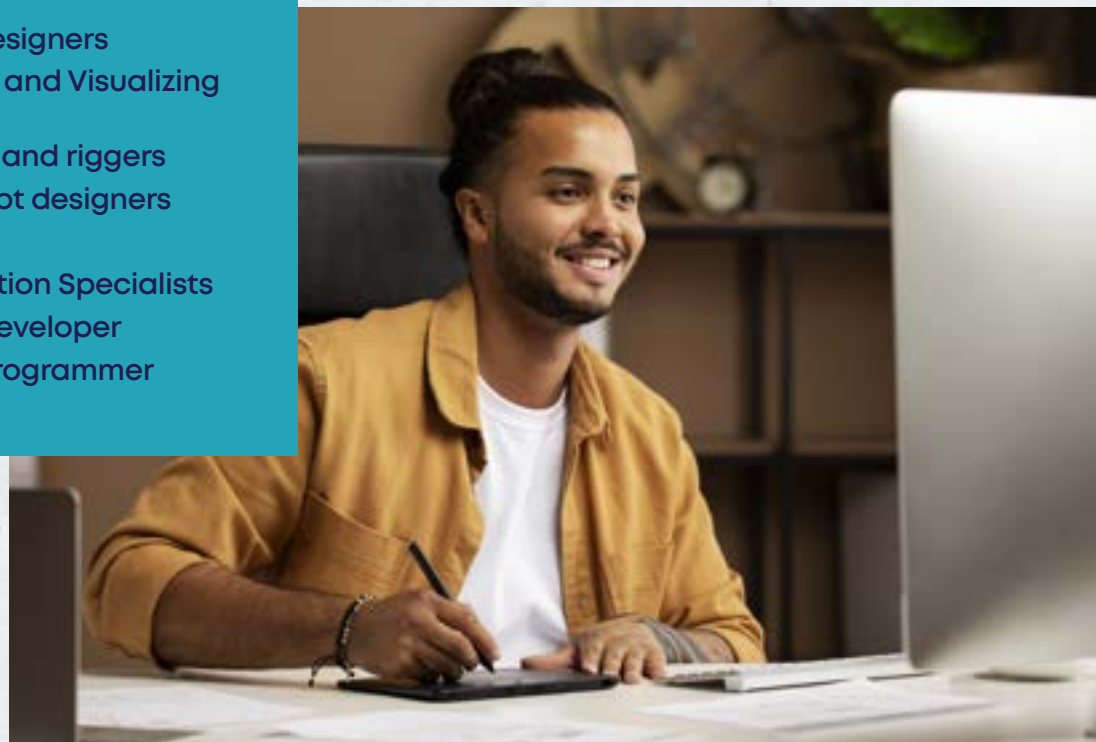
**OR** Minimum 3 "D" passes in G.C.E A/L Cambridge or Edexcel (in any subject stream) in one sitting

**AND** Pass the Aptitude Test conducted by NorthernUni

To progress from the second year to the third year of the specialisation, a student must pass a selection interview

## CAREER OPPORTUNITIES

- Interactive Designers
- 3 D Modelling and Visualizing Artists
- 3D Animators and riggers
- Game Concept designers
- UI Engineers
- Video Production Specialists
- Multimedia Developer
- Multimedia Programmer



# INFORMATION SYSTEMS ENGINEERING

## About the Programme

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.

Duration : 4 Years

Entry : February / June / September

Location : Malabe / Colombo / Matara / Kandy / Kurunegala

Examinations : Weekdays / Weekends

## 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.

## CAREER OPPORTUNITIES

- Business Analyst
- Systems Analysts
- Information Manager
- Business Consultant
- IS Auditor
- Project Managers
- IT Consultant
- IT Technical Support Officer
- Data Analyst
- Data Scientist
- IT Manger
- Database Administrator
- System Developer
- Application Analyst
- Application Developer







**EDUCATION  
IS NOT  
PREPARATION  
FOR LIFE;  
EDUCATION  
IS LIFE  
ITSELF**

JOHN DEWEY





 **NORTHERN  
UNI**

Experiment. Experience. Excel.



[northernuni.lk](http://northernuni.lk)