ARTIFICIAL INTELLIGENCE

This new specialization is designed for students who wish to gain an accelerated early career in Artificial Intelligence. It will prepare you for a successful career in the various roles directly and indirectly connected to the world of artificial intelligence and machine learning.



CAREER OPPORTUNITIES

- Machine Learning Engineer
- AI/ML Developer
- Robotics Engineer
- Al Ethics Specialist
- Al Solutions Architect
- Al Trainer

- Data Scientist
- Al Product Manager
- Natural Language Processing (NLP) Engineer
- Computer Vision Engineer
- Big Data Engineer

ENTRY REQUIREMENTS

Local A/Ls: Minimum of 3 "S" passes in the Physical Sciences stream or Engineering Technology stream in one and the same sitting for A/Ls or an equivalent qualification. OR Minimum of 3 "S" passes in any stream (other than Physical Science/ Engineering Technology streams) in one and the same sitting at the GCE A/L Examination AND a "C" pass for O/L Mathematics AND completing the IT Bridging Program conducted by SLIIT.

Applicants who have followed Information & Communication Technology as a main subject for A/Ls AND obtained a "C" pass for O/L Mathematics will be exempted from the IT Bridging Program.

Cambridge/Edexcel A/Ls: Minimum of 3 "D" passes in subjects related to Mathematics in one and the same sitting for A/L's. OR Minimum of 3 "D" passes in any other subjects (other than Mathematics related subjects) in one and the same sitting at the GCE A/L Examination AND a "C" pass for O/L Mathematics AND completing the IT Bridging Program conducted by SLIIT.

Applicants who have followed Information Technology/Computer Science as a main subject for A/Ls AND obtained a "C" pass for O/L Mathematics will be exempted from the IT Bridging Program.

To be eligible to follow Artificial Intelligence Specialization, students must meet the minimum GPA requirement specified by the faculty at the end of the 2nd Year 1st Semester. Applicants should also pass the Aptitude Test conducted by SLIIT.

YEAR ONE SEMESTER 01	IT1120 IE1030 IT1130 IT1140	Introduction to Programming Data Communication Networks Mathematics for Computing Fundamentals of Computing	04 04 04
SEMESTER 02	IT1160 IT1170 SE1010 IT1150	Discrete Mathematics Data Structures and Algorithms Software Engineering Technical Writing	04 04 04 04
YEAR TWO SEMESTER 01	IT2120 IT2010 IT2130 IT2140	Probability and Statistics Object Oriented Programming Operating Systems & System Administration Database Design and Development	04 04 04 04
SEMESTER 02	IT2011 IT2012 SE2020 IT2160	Artificial Intelligence & Machine Learning AIML Project Web and Mobile Technologies Professional Skills	04 04 04 04
YEAR THREE SEMESTER 01	SE3090 IT3012 IT3091 IT3101	Software Engineering Frameworks Intelligent Agents Machine Learning Data Warehouse and Business Intelligence	04 04 04 04
SEMESTER 02	IT3190 IT3160 IT3111 IT3022	Industry Training Research Methods Deep Learning Bio Inspired Computing	- 04 04
YEAR FOUR SEMESTER 01	IT4200 IT4012 IT4061 IT4022 SE4070	Research Project - I Current Trends in Al Natural Language Processing Edge Al Secure Software Development	04 04 04 04
SEMESTER 02	IT4200 IT4032 IT4111 SE4120 SE4140	Research Project - II Responsible AI MLOps for Data Analytics Enterprise Application Development Big data and Data Analytics	08 04 04 04 04