



APPROVED

Awards	
Ordinary Bachelor Degree	
Mode of Delivery:	Full Time, Part Time, ACCS
No. of Semesters :	6
NFQ Level:	7
Programme Credits:	180
Language of Instruction:	English
Department:	Aerospace, Mechanical & Electronic Engineering

Semester Schedules

Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
PROG C1604	Robotics Programming 1
MATH C1605	Engineering Mathematics 1
MECH C1605	Static Mechanics
ELEC C1611	Electrical and Electronic Fundamentals
DSGN C1601	Computer Aided Drafting

Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
PROJ C1602	Robotics Project
MATH C1608	Engineering Mathematics 2
PHYS C1601	Dynamic Mechanics
ELEC C1612	Electrical and Electronic Circuits

Stage 2 / Semester 1

Mandatory	
Module Code	Module Title
MATH C2607	Engineering Mathematics 3
PROJ C2603	Robotics Programming 2
INDL C2603	Industrial Automation and Robotics
SYST C2603	Drives and Actuators
PHYS C2601	Dynamics 2

Stage 2 / Semester 2

Elective Regulation

Learners may EXIT after this stage of the programme with a Higher Certificate in Engineering in in Robotics & Automated Systems (Embedded Exit Award), provided they have achieved the required Level 6 learning outcomes and have accumulated 120 credits. Academic regulations apply.

Mandatory	
Module Code	Module Title
MATH C2608	Engineering Mathematics 4
SYST C2611	Embedded Systems 1
SYST C2609	Introduction to Systems and Control
PROJ C2604	Mechatronics Project
PROJ C2605	Robotics Programming 3

Stage 3 / Semester 1

Mandatory	
Module Code	Module Title
MATH C3603	Engineering Mathematics 5
INDL C3601	Industrial Compliance, Safety and Law
SYST C3603	Robotic Operating Systems
SYST C3604	Control and Human Interfacing
NETW C3607	Computer Networks 1

Stage 3 / Semester 2

Elective Regulation

Learners who have successfully achieved all of the required programme learning outcomes and have accumulated 180 credits may then apply to progress to Stage 4 of the Bachelor of Engineering (Honours) in Robotics & Automated Systems. Academic regulations apply.

Mandatory	
Module Code	Module Title
INDL C3604	Industrial Studies
AUTO C3601	Network Programmability and Automation
TRON C3603	Software Defined Radio
NETW C3610	Computer Networks 2
PROJ C3603	Development Project (Engineering)