



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 / 60 ECTS / Semester 1

Elective Regulation

All subjects are mandatory. Modules may require that students participate in class work, practical work & project work per assessment criteria. A minimum of 40% may be required in each of these elements to satisfy the module learning outcomes.

Mandatory	
Module Code	Module Title
DSGN C1601	<a href="#">Computer Aided Drafting</a>
MATH C1605	<a href="#">Engineering Mathematics 1</a>
MECH C1613	<a href="#">Mechatronics 1</a>
MECH C1605	<a href="#">Static Mechanics</a>
TECH C1602	<a href="#">Technical Communications</a>

Stage 1 / 60 ECTS / Semester 2

Elective Regulation

All subjects are mandatory. Modules may require that students participate in class work, practical work & project work per assessment criteria. A minimum of 40% may be required in each of these elements to satisfy the module learning outcomes.

Mandatory	
Module Code	Module Title
MATH C1608	<a href="#">Engineering Mathematics 2</a>
MECH C1615	<a href="#">Mechatronics 2</a>
PHYS C1601	<a href="#">Dynamic Mechanics</a>
MECH C1617	<a href="#">Fluid Mechanics 1</a>
PRAC C1602	<a href="#">Workshop Practices</a>

Stage 2 / 60 ECTS / Semester 1

Elective Regulation

Students may EXIT at this stage of the programme with a Higher Certificate in Engineering in Mechanical Engineering (Embedded Exit Award), provided they have achieved the required Level 6 learning outcomes. Academic regulations apply.

Mandatory	
Module Code	Module Title
MATH C2607	<a href="#">Engineering Mathematics 3</a>
AUTO H2003	<a href="#">Mechatronics 3</a>
MECH H2003	<a href="#">Statics 2</a>
PHYS C2601	<a href="#">Dynamics 2</a>
MANU C2F02	<a href="#">Manufacturing and CAD</a>

Stage 2 / 60 ECTS / Semester 2

Elective Regulation

Students may EXIT at this stage of the programme with a Higher Certificate in Engineering in Mechanical Engineering (Embedded Exit Award), provided they have achieved the required Level 6 learning outcomes. Academic regulations apply.

Mandatory	
Module Code	Module Title
MATH C2608	<a href="#">Engineering Mathematics 4</a>
AUTO H2004	<a href="#">Mechatronics 4</a>
ENGR C2F04	<a href="#">Materials Science in Engineering</a>
PHYS H2004	<a href="#">Dynamics 3</a>
ENGY H2004	<a href="#">Thermodynamics 1</a>

Stage 3 / 60 ECTS / Semester 1

Mandatory	
Module Code	Module Title
MATH C3603	<a href="#">Engineering Mathematics 5</a>
MECH H3005	<a href="#">Mechanics of Materials</a>
AUTO H3005	<a href="#">Mechatronics 5</a>
DSGN H3601	<a href="#">Advanced Manufacturing</a>
ENGY H3005	<a href="#">Fluid Mechanics 2</a>

Stage 3 / 60 ECTS / Semester 2

Elective Regulation

Students will be expected to work in the laboratory/workshop on Development Project for a minimum of 4 hours per week. 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/Science (Honours) in Mechanical Engineering. Academic regulations apply.

Mandatory	
Module Code	Module Title
PROJ C3F01	<a href="#">Development Project (Engineering)</a>
INDL C3604	<a href="#">Industrial Studies</a>
Elective	
Module Code	Module Title
SYST C2609	<a href="#">Introduction to Systems and Control</a>
AGRI C3F03	<a href="#">Process Instrumentation</a>
COMP C3F01	<a href="#">Advanced PLCs</a>