

**DEGREE OF BACHELOR OF ENGINEERING IN ENGINEERING (MECHANICAL AND ELECTRICAL)
(07HH3552)**

Students must also comply with the University General Regulations and the Supplementary Regulations for the Degree of Bachelor of Engineering

All the courses listed below are prescribed for this degree

PROGRAMME YEAR 1 – 120 Credit Points					
First Half Session			Second Half Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
PD 1001	Professional Skills Part 1	0	EE 1501	Electronics Design	15
EG 1008	Principles of Electronics	15	EG 1504	Engineering Mathematics 1	15
EG 1010	CAD and Communications in Engineering Practice	15	EG 1510	Fundamental Engineering Mechanics	15
EG 1012	Fundamentals of Engineering Materials	15			
Plus 30 credit points from courses of choice.					

PROGRAMME YEAR 2 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
EG 2004	Fluid Mechanics and Thermodynamics	15	EA 2502	Solids and Structures	15
			EE 2504	Electronic Systems	15
EG 2011	Process Engineering	15	EG 2501	Design and Computing in Engineering Practice	15
EG 2012	Engineering Mathematics 2	15	EG 2503	Electrical and Mechanical Systems	15
Plus 15 credit points from courses of choice.					

PROGRAMME YEAR 3 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
EE 3043	Control Systems	15	EE 3557	Electrical Power Engineering	15
EG 3007	Engineering Analysis and Methods 1A	15	EG 3599	Project & Safety Management	10
			EM 3511	Dynamics 1	15
EM 3019	Fluid Mechanics	15	EM 3521	Engineering Thermodynamics	10
EM 3028	Engineering Materials	15	EM 3522	Design of Mechanical Elements	10

PLEASE SEE OVER →

PROGRAMME YEAR 4 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
EG 4014	BEng Individual Project				30
EE 4017	Sensing and Instrumentation	10	EG 4578	Group Design Project (BEng)	15
EE 40FE	Electrical Machines and Drives (see Note 2)	10	EM 4529	Nonlinear Mechanics	15
EM 40JJ	Fluid Dynamics	10			
Plus 30 credit points from courses of choice.					
OR					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
EG 4011	Engineering Project Abroad (BEng)				60
EE 4017	Sensing and Instrumentation	10			
EE 40FE	Electrical Machines and Drives (see Note 2)	10			
EM 40JJ	Fluid Dynamics	10			
Plus 30 credit points from courses of choice in the first half session.					

Notes	
1.	This programme is accredited by the IMechE and IET as partially satisfying the educational base for a Chartered Engineer (CEng). A programme of accredited Further Learning will be required to complete the educational base for CEng. This programme would fully satisfy the educational base for Incorporate Engineer (IEng) registration.
2.	EE 40FE <i>Electrical Machines and Drives</i> is a compulsory course for this programme of study and must be passed in order to be eligible to graduate from this accredited degree programme. Annex A of the Supplementary Regulations for the Degree of Bachelor of Engineering applies to this course.
3.	All course choices at Level 2 and above are subject to students holding the appropriate pre-requisites.
4.	Candidates seeking entry to the Junior Honours programme must have accumulated, by award or recognition, or been exempted from, at least 240 credit points at levels 1 and 2, including those compulsory courses required to enter programme year 3. If missing one compulsory course which is a pre requisite course for level 3, Head of School approval will be required to progress into Junior Honours, if approval is not granted students would progress onto programme year 3 on the BScEng degree programme.