

## DEGREE OF MASTER OF ENGINEERING IN CIVIL ENGINEERING (07H20554)

Students must also comply with the University General Regulations and the Supplementary Regulations for the Degree of Master 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			
EG 1008	Principles of Electronics	15			
EG 1010	CAD and Communications in Engineering Practice	15	EG 1504	Engineering Mathematics 1	15
EG 1012	Fundamentals of Engineering Materials	15	EG 1510	Fundamental Engineering Mechanics	15
Plus 45 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
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 30 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
EA 3027	Geotechnics 1	15	EA 3518	Mechanics of Structures	15
EG 3007	Engineering Analysis and Methods 1A	15	EA 3519	Design of Structural Elements	15
			EA 3538	Structural Dynamics	10
EM 3015	Stress Analysis A	15	EA 3720	Civil Engineering Design and Surveying	10
EM 3019	Fluid Mechanics	15	EG 3599	Project & Safety Management	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 4013	MEng Individual Project				45
			<b>Plus one course from the below</b>		
EA 40JE	Geotechnics 2	10	EA 4526	Advanced Structural Analysis	15
EA 40JF	Civil Engineering Hydraulics	10	EA 4527	Environmental Engineering	15
EA 40JG	Advanced Structural Design	10	EM 4529	Nonlinear Mechanics	15
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
EA 40JE	Geotechnics 2	10	EG4513	Individual Project Abroad (MEng)	60
EA 40JF	Civil Engineering Hydraulics	10			
EA 40JG	Advanced Structural Design	10			
Plus 30 credit points from courses of choice.					

PROGRAMME YEAR 5 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
EG 501S	Numerical Simulation of Waves	15	EG 5565	MEng Group Design	30
EG 501W	The Engineer in Society	15	<b>Plus two courses from the below</b>		
EG 50T9	Structural Vibrations	15	EG 552U	Marine and Wind Energy	15
<b>Plus one course from the below</b>			EG 551T	Mathematical Optimisation	15
EA 50JG	Offshore Structural Design	15	EG 55F2	Pipelines and Soil Mechanics	15
			EG 55F9	Riser Systems and Hydrodynamics	15
EG 501V	Computational Fluid Dynamics	15	EG 55P6	Engineering Risk and Reliability Analysis	15
			SS 5500	Remediation Technology	15

Notes	
1.	This programme is accredited by the Institution of Civil Engineers (ICE), the Institution of Structural Engineers (IStructE), the Institute of Highway Engineers (IHE) & the Chartered Institution of Highways & Transportation (CIHT) as fully satisfying the educational base for a chartered Engineer (CEng)
2.	All course choices at Level 2 and above are subject to students holding the appropriate pre-requisites.
3.	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. Students will also be expected to meet the standards required for MEng as publicised in the Student Handbook.