DEGREE OF MASTER OF ENGINEERING IN MECHANICAL ENGINEERING WITH BIOMECHANICS

07H35054

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

Term 1			Term 2		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
PD 1002	Getting started at the University of Aberdeen	0			
EG 1008	Principles of Electronics	15	EG 1504	Engineering Mathematics 1	15
EG 1010	CAD and Communication in Engineering Practice	15	EG 1510	Fundamental Engineering Mechanics	15
EG 1012	Fundamentals of Engineering Materials	15	EG 1513	Circuit Analysis and Design	15
Plus 15 credit points from courses of choice at Levels 1 or 2			Plus 15 credit points from courses of choice at Levels 1 or 2		

PROGRAMME YEAR 2 – 120 Credit Points

Term 1			Term 2		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
EG 2004	Fluid Mechanics and Thermodynamics	15	EG 2501	Design and Computing in Engineering Practice	15
EG 2011	Process Engineering	15	EG 2503	Electrical and Mechanical Systems	15
EG 2012	Engineering Mathematics 2	15	EG 2513	Solids and Structures	15
Plus 15 credit points from courses of choice at Levels 1 or 2			Plus 15 credit points from courses of choice at Levels 1 or 2		

PROGRAMME YEAR 3 – 120 Credit Points

Term 1			Term 2		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
EG 3007	Engineering Analysis and Methods 1A	15	EA 3518	Mechanics of Structures	15
			EG 3505	Engineer in Society	10
EM 3015	Stress Analysis A	15	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

PROGRAMME YEAR 4 – 120 Credit Points

Term 1			Term 2		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
EM 40JP	Dynamics 2	15	EG 45PE	Individual Project (MEng)	60
EM 4011	Fluid Dynamics	15	**OR**		
EM 4012	Heat and Momentum Transfer	15	EG 45PF	Industrial Individual Project (MEng)	
EM 4013	Nonlinear Solid Mechanics	15	**OR**		
			EG 45PA	Individual Project Abroad (MEng)	

PLEASE SEE OVER →

PROGRAMME YEAR 5 – 120 Credit Points					
Term 1			Term 2		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
EG 501V	Computational Fluid Dynamics	15	EG 5565	MEng Group Design	30
EG 501W	The Engineer in Society (to be replaced in 2026/27)	15	EG 555K	Rehabilitation Engineering and Biomechanics	15
EG 505K	Biomaterials for Medical Devices and Implants	15	EG 555L	Modelling of Biological Systems	15
EM 501Q	Advanced Composite Materials	15			

Notes	
1.	This programme will seek accreditation by the IMechE at the earliest opportunity.
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 (Programme Year 3) must have accumulated, by award or recognition, or been exempted from, at least 240 credit points at levels 1 and 2, including all courses prescribed for this degree programme. Candidates who do not meet this progression requirement but who do meet the requirements for progression to Programme Year 3 of the DEGREE OF BACHELOR OF SCIENCE IN ENGINEERNG (MECHANICAL) may transfer to this programme with a view to transferring back to an honours programme for the commencement of Programme Year 4. Candidates seeking to progress on, or transfer to, the MEng programme will, in addition to meeting the credit requirements set out in the General and Supplementary Regulations, be expected to meet the MEng GPA requirements as publicised in the School of Engineering Undergraduate Student Handbook.
4.	When completing registration for Programme Year 4, candidates registered for this programme will be registered for either EG 45PE Individual Project (MEng) or EG 4513 Individual Project Abroad (MEng). Candidates who are allocated an Industrial Project through the project allocation conducted during Term 1 will then be transferred to EG 45PF Industrial Individual Project (MEng) as necessary.