



# BEng Honours Degree in Computer Aided Mechanical Engineering

*The demands of the future, met today*

Computer Aided Mechanical Engineering (CAME) stresses the relevance of multi-disciplinary concepts needed to analyse and solve engineering problems covering mechanical, electronic, computer and control systems.

Computer Aided Mechanical Engineering

## Programme

CAME is the application of computer technology to the design, manufacture, analysis and control of engineering systems and sub systems and components. It also includes installation, operations, control and maintenance of industrial machinery. On this programme, you will develop integrated skills related to information technology, personal development planning, computer aided design and manufacture (CAD/CAM) and mechatronics.

## Placement

The programme is reinforced with structured industrial visits and placement opportunities. Whilst working during the placement, you will undertake a number of assignments designed to relate your academic studies to the

context of industry. The college is supported by a large number of companies in the oil and gas industry and in manufacturing and power industries to allow for an insightful placement experience.

## Career Opportunities

There are outstanding and high On graduating from this programme, you will find job opportunities in many organisations in areas such as design, manufacturing,



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marketing and sales, or as project engineers, design engineers, mechanical technician engineers and cost analysis engineers. Employment opportunities exist in a wide variety of industries and organisations such as PDO, oil and gas industries, manufacturing and building services, power industries, electronic business organisations and ministries.

### Awards

Students who successfully complete this programme will be eligible for an internationally recognised Honours Degree awarded by Glasgow Caledonian University, Scotland, UK. Two exit options are available as given below:

- On successful completion of Level 2: Award of University Diploma

- On successful completion of Level 4: Award of BEng Honours Degree

The Diploma awarded after Level 2 is equivalent to Diploma (Oman) and BEng Honours Degree awarded after Level 4 is equivalent to Bachelor Degree in Engineering (Oman), conforming to the Oman Qualifications Framework.



### Modules

Credits	Level 1 – Total of 140 Credits
20	Technical Communication
20	Mechanical Principles
10	Engineering Graphics
10	Engineering Computing
10	Engineering Materials
20	Electro-Mechanical Workshop
20	Fundamentals of Electrical and Electronic Engineering
20	Technical Mathematics 1
10	Energy and Environmental Science
	<i>English for Engineers - I</i>

Credits	Level 3 – Total of 140 Credits
20	Entrepreneurial Skills Development
20	Thermo Fluids
20	Advanced Mathematics
10	Fluid Mechanics Lab
20	Control Systems
20	Mechanical Engineering Design
10	Computer Aided Design 1
10	Applied Thermodynamics
10	Instrumentation and Control Lab

Credits	Level 2 – Total of 140 Credits
20	Manufacturing Processes
20	Mechatronics
20	Employability Skills Development
10	Material Testing Lab
20	Technical Mathematics 2
20	Mechanics of Solids
20	Elective 1 (Non-Technical)
10	Workshop Practice
	<i>English for Engineers -II Industry Orientation Prog Exit with Diploma</i>

Credits	Level 4 – Total of 140 Credits
20	Computer Aided Design 2
20	Elective 2 (Technical)
10	Industrial Internship
10	Research Methodology
10	Machine Condition Monitoring
20	Engineering Analysis
20	Industrial Studies
20	Technical Project (Engineering)
10	CAD/CAM Lab
	<i>Exit with Bachelor of Engineering (Honours) in CAME</i>



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