



## BEng Honours Degree in Process Operations and Maintenance

### *Oiling the wheels of progress*

This programme, the first of its kind in Oman, provides technical skills and knowledge in process, chemical, mechanical, electronic, electrical, instrumentation and control engineering in order to help graduates understand and meet the requirement of various process industries like oil and gas, and chemical and fertiliser plants.

#### Programme

The multifaceted discipline of Process Operations and Maintenance, or 'POM' as it is called, covers process plant operations, chemical plant safety, process control and maintenance management as required in a modern oil and gas industry. It provides you with a specialisation in process equipment and design, flow line fabrication and control, operation and maintenance, utilities and service systems.

#### Placement

POM is reinforced with structured industrial visits and placement opportunities through the many partnerships that the college enjoys with chemical industries in Oman and other local companies. While working during the placement, you will undertake assignments to

apply your theoretical knowledge to the context of a process plant.

#### Career Opportunities

The Sultanate of Oman predominantly depends on the

revenue from oil, gas, minerals and other resources. Given the major expansion of refineries, petrochemical plants and fertiliser plants in Oman and the region as a whole, there are many job opportunities in production,



#### Oman Contact:

Caledonian College of Engineering P O Box 2322, CPO Seeb 111, Sultanate of Oman  
Tel: 00968 98266600, Fax: +968 24535675, Email: [admissions@caledonian.edu.om](mailto:admissions@caledonian.edu.om)

#### Iraq Agent:

(1) Eng: Husham Reyadh, [icsusn@gmail.com](mailto:icsusn@gmail.com), 07715202451 (2) Eng: Mustafa Tahseen, [bicsus@gmail.com](mailto:bicsus@gmail.com),  
Tel: 07702568370 (3) Dr. Bassam Saleh Mahdi, [dr.bassam@ahrtd.com](mailto:dr.bassam@ahrtd.com), Tel: 07717929084, 07823390049

operations and maintenance both here in Oman and in GCC countries.

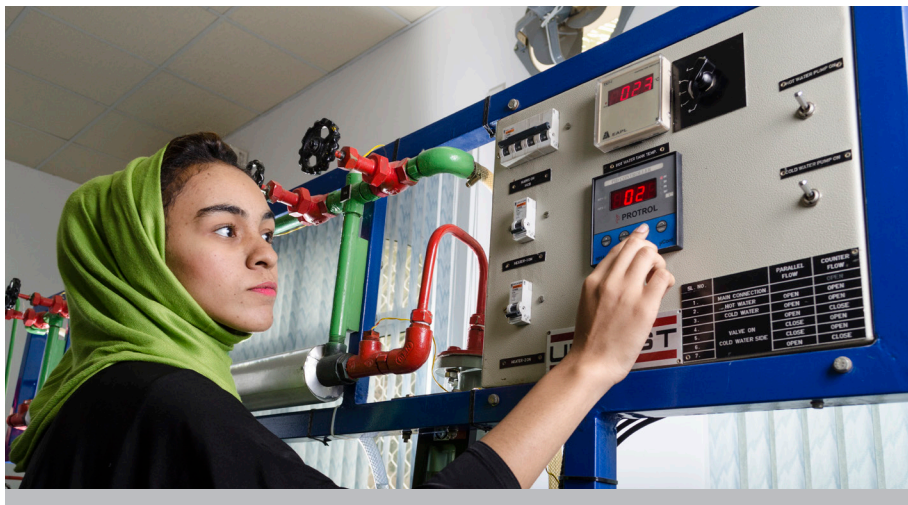
## Awards

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

Credits	Level 3 – Total of 140 Credits
20	Entrepreneurial Skills Development
20	Chemical Engineering Thermodynamics and Reaction Kinetics
20	Advanced Mathematics
10	Fluid Mechanics and Heat Transfer Lab
20	Process Control and Instrumentation Engineering
20	Oil and Gas Treatment Processes
10	Petroleum Refining and Petrochemicals
10	Materials and Joining Technology
10	Process Control and Instrumentation Lab

Credits	Level 2– Total of 140 Credits
20	Process Calculations
20	Mechatronics
20	Technical Mathematics 2
10	Engineering Chemistry
20	Fluid Mechanics and Heat Transfer
20	Employability Skills Development
20	Non-Technical Elective
10	Engineering Chemistry Lab
	<i>English for Engineers -II</i>
	<i>Industry Orientation Prog</i>
	<i>Exit with Diploma</i>

Credits	Level 4 – Total of 140 Credits
20	Process Equipment Design
20	Process Equipment Maintenance
10	Research Methodology
10	Industrial Internship
10	Chemical Reaction Engineering and Mass Transfer Lab
20	Industrial Studies
20	Technical Project (Engineering)
20	Technical Elective
10	Machine Condition Monitoring
	<i>Exit with Bachelor of Engineering (Honours) in Process Operations and Maintenance</i>



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