



# BEng Honours Degree in Electrical Power Engineering

*Add more power to your career*

Oil resources form the cornerstone of Oman's economy. The country is host to a wide range of petroleum producing, processing and service companies. Electrical Power is vital to run these industries and equally important is the knowledge of transmission, distribution and efficient utilisation of electrical power.

## Programme

The field of electrical power engineering continues to expand rapidly, requiring graduates to apply their skill in new contexts and manage intelligently the consequences of their technical decisions. Our curriculum accommodates this expansion and emphasises hands-on experience through numerous laboratory courses. This programme provides qualified graduates with a deeper understanding of fundamentals of electrical power engineering as well as a broader set of professional skills and exposure to other technical disciplines.

## Placement

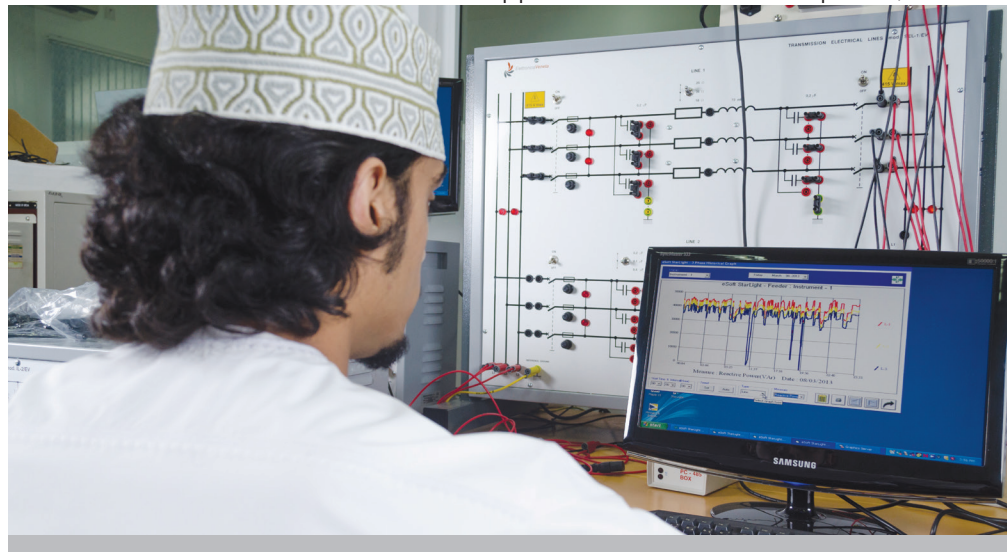
Placements are available in various private and government sectors in the fields of electrical power generation, distribution, oil

and gas, defence and aviation.

There is a strong demand for electrical power engineers in different ministries, private companies and other multinational contracting and consulting organisations.

## Career Opportunities

The programme offers a number of possible career options in electrical power generation, distribution, energy management and utilisation. Attractive career opportunities exist in development,



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design and production in industry. Electrical engineers are sought after not only by industry but also by public authorities, service industries and research institutions in Oman and abroad on petrochemical, industrial, pharmaceutical and infrastructure projects. Lighting and signalling systems design in commercial, institutional and industrial facilities also need electrical engineers.

## 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.



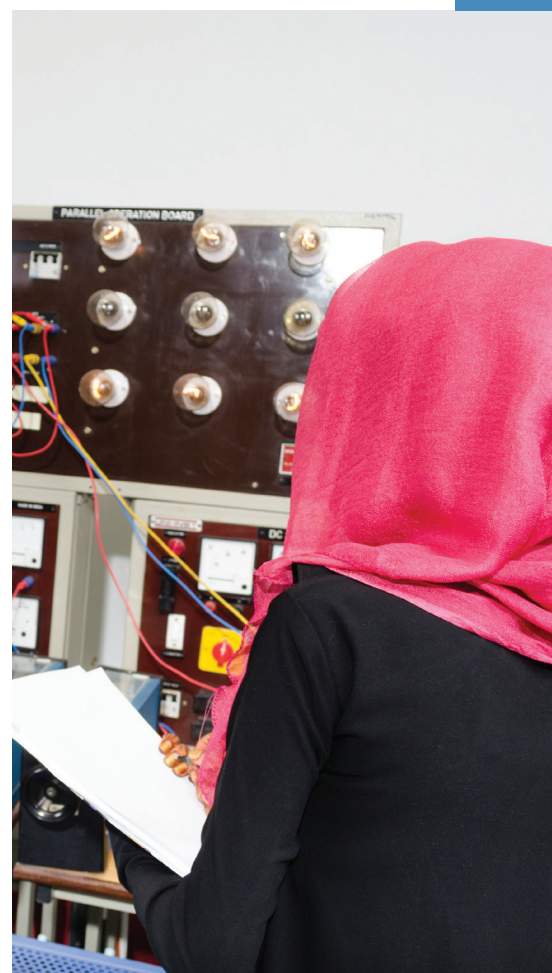
## Modules

Credits	Level 1 – Total of 140 Credits
20	Computer Programming
20	Technical Communication
20	Mechanical Principles
10	Energy and Environmental Science
20	Circuit Theory and Analysis
20	Technical Mathematics 1
20	Electro-Mechanical workshop
10	Engineering Graphics
	<i>English for Engineers – I</i>

Credits	Level 2– Total of 140 Credits
20	Electronic Engineering
20	Electrical Machines
20	Utilisation of Electrical Power
10	Electrical Machines Lab
20	Technical Mathematics 2
20	Electrical and Electronic Measurements
20	Employability Skills Development
10	Electronic and Measurements Lab
	<i>English for Engineers –II Industry Orientation Prog Exit with Diploma</i>

Credits	Level 3 – Total of 140 Credits
20	Entrepreneurial Skills Development
20	Non Technical Elective
20	Transmission and Distribution Systems
10	Electrical Systems Lab
20	Power Electronics
20	Control Systems
20	Advanced Mathematics
10	Power Electronics and Control Lab

Credits	Level 4 – Total of 140 Credits
10	Industrial Internship
10	Research Methodology
20	Power Systems Analysis
20	Power Systems Protection
20	Industrial Studies
20	Technical Project
20	High Voltage and Condition Monitoring
20	Technical Elective
	<i>Exit with Bachelor of Engineering (Honours) in Electrical Power Eng</i>



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