



BEng Honours Degree in Computer Engineering

Conquering cyberspace

Computer engineering combines the two disciplines of electrical engineering and computer science to provide graduates with the tools and knowledge necessary to succeed in today's competitive world. The combination of disciplines provides a unique approach to computer applications where we consider both the hardware and software elements of the subject and networking concepts.

Programme

This programme prepares you to be successful in computer engineering practice and to be able to pursue advanced studies in computer engineering and computer science here or abroad. The Department of Electrical & Computer Engineering has excellent laboratory and computational facilities. The laboratories are configured around benches, each equipped with a modern test set up and measuring devices. High speed internet access is available in all the laboratories with WiFi access.

Placement

Placements can be spent either locally or abroad in various including IT related organisations, banks, petroleum deployment companies, telecommunication

companies, defence, aviation, major oil and gas companies and hospitals. There is a strong demand for computer engineering in different ministries and government institutions, private companies and other multinational

contracting and consulting organisations.

Career Opportunities

Graduates of this programme have a wide choice of career



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options in computer engineering including within the fields of computer programming, software development, hardware engineering, database administration, web development, network management and administration.

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

Modules

| Credits | Level 1 – Total of 140 Credits |
|---------|--|
| 20 | Computer Programming |
| 20 | Introduction to Website Design and Development |
| 20 | Electro-Mechanical Workshop |
| 10 | PC Hardware Lab |
| 20 | Technical Communication |
| 20 | Database Management Systems |
| 20 | Technical Mathematics 1 |
| 10 | Energy and Environmental Science |
| | <i>English for Engineers – I</i> |

| Credits | Level 3 – Total of 140 Credits |
|---------|------------------------------------|
| 20 | Data Structures and Algorithms |
| 20 | Microcontroller and Applications |
| 20 | Entrepreneurial Skills Development |
| 10 | Microcontroller Lab |
| 20 | Operating Systems |
| 20 | Advanced Mathematics |
| 20 | Non Technical Elective |
| 10 | Multimedia Lab |

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



| Credits | Level 2– Total of 140 Credits |
|---------|--|
| 20 | Visual Programming Principles |
| 20 | Electronic Engineering |
| 20 | Data Communications and Computer Networks |
| 10 | Computer Networks Lab |
| 20 | Technical Mathematics 2 |
| 20 | Object Oriented Programming |
| 20 | Employability Skills Development |
| 10 | Mini Project (Group) |
| | <i>English for Engineers –II Industry Orientation Prog Exit with Diploma</i> |

| Credits | Level 4 – Total of 140 Credits |
|---------|--|
| 20 | Web Programming |
| 20 | Software Engineering |
| 20 | Computer Organisation and Architecture |
| 10 | Research Methodology |
| 10 | Industrial Internship |
| 20 | Industrial Studies |
| 20 | Technical Project |
| 20 | Technical Elective |
| | <i>Exit with Bachelor of Engineering (Honours) in Computer Engineering</i> |

(Oman), conforming to the Oman Qualifications Framework.

