



## BEng Honours Degree in Construction Engineering

*Engineering a vision into a reality*

Travel any highway or cross any bridge, walk into a building or shop in a mall and the reality of construction engineering becomes immediately apparent. Architects envision exciting designs, but it is the challenge of construction engineering to make those visions concrete. This involves a set of practical and intellectual skills and a strong team-working ethos.

### Programme

To cater for the national and international demand for skilled human resources within the construction industry, this programme has been designed to provide you with a strong knowledge and understanding of your subject, complemented with intellectual, professional, practical and transferable skills associated with construction engineering. Areas covered in the programme include construction techniques, heavy construction equipment and machinery, building services, restoration and rehabilitation, contract administration and risk analysis. It also covers the management of new and existing structures from small projects to so-called 'mega-structures' such as skyscrapers, roads, bridges, tunnels, railways, airports, dams

and shopping malls. Modules focusing on design (for example concrete design and steel structure design) are also included in the programme.

### Placement

Placement opportunities are provided in companies involved in industrial projects and the construction of housing complexes, business centres, shopping malls,



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bridges, roads, railways, harbours, dams and airports.

## Career Opportunities

There are many career options in Oman and abroad, both in the public and private sectors, stemming from this programme. Employment on graduation is possible, for example, in construction engineering contracting; health, safety and environment consultancy; project risk analysis; national and local government agency projects (in areas including water supply, sewerage, road and bridge design and maintenance, building regulations, compliance and assessment of building services by laboratory analysis).

## Awards

Students who successfully complete this programme will be eligible

## Modules

| Credits | Level 1 – Total of 140 Credits          |
|---------|---|
| 20      | Applicable Mathematics 1                |
| 20      | Technical Communication                 |
| 20      | Construction Materials and Measurements |
| 10      | Materials and Measurements Laboratory   |
| 20      | Construction Technology                 |
| 20      | Environmental Sciences                  |
| 20      | Engineering Mechanics                   |
| 10      | Engineering Drawing Laboratory          |
|         | English for Engineers 1                 |

| Credits | Level 3 – Total of 140 Credits             |
|---------|--|
| 20      | Entrepreneurial Skills development         |
| 20      | Heavy Construction Equipment and Machinery |
| 20      | Design of Steel Structures                 |
| 10      | Structural Detailing                       |
| 20      | Health and Safety in Construction          |
| 20      | Construction Cost Estimating               |
| 20      | Geotechnical Engineering                   |
| 10      | Industrial Training                        |

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.



| Credits   | Level 2– Total of 140 Credits                    |
|---|--|
| 20  | Applicable Mathematics 2                         |
| 20  | Design of RCC Structures                         |
| 20  | Surveying  |
| 10  | Surveying Laboratory                             |
| 20  | Engineering Economics for Construction Engineers |
| 20  | Building Performance and Services                |
| 20  | Employability Skills Development                 |
| 10  | Building Performance Laboratory                  |
|   | English for Engineers 2                          |
| Industry Orientation Programme<br>Exit with Diploma |  |

| Credits  | Level 4 – Total of 140 Credits                   |
|--|--|
| 20   | Contract Administration and Building Regulations |
| 20   | Project Management                               |
| 10   | Research Methodology                             |
| 20   | Advanced Construction Technology                 |
| 20   | Rehabilitation of Structures                     |
| 20   | Project  |
| 10   | Industry Based Project                           |
| 20   | Elective   |
| Industry Orientation Programme<br>Exit with Bachelor of Engineering (Honours)<br>in Construction Engineering |  |



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