

# BSc. Quantity Surveying and Cost Management

(Designed as per RICS learning outcome)

New Program



## About the program

BSc. Quantity Surveying and Cost Management degree offered at the National University is designed to meet the requirements of the ever growing importance of technology and integrated delivery which are playing an increasingly important role in the digitized Construction Industry

The program will give you the chance to study a strong core of technology, alongside construction law and project management. We'll make sure that you understand organizational structure and cost management too, as these are essential skills for quantity surveyors. Furthermore, with innovation at the core of the program through courses like, Engineering Graphics, Architectural and Structural Drawings and Building Information Modelling, you will get access to the latest software, and computer-generated virtual building site, allowing you to hone the professional skills any construction employer would value.

The program provides knowledge that allows you to enhance your creativity in problem solving and will as well as promote your skills to deal with digitization challenges of the industry. With a broad construction curriculum, this program will make you fully equipped to take up professional responsibility in a management role within the construction industry. The delivery of the course is complemented by a range of visits to construction sites where you will be able to appreciate theory in context.

## Awards

- Students who successfully complete a minimum of 62 credit hours will be awarded a Diploma in Quantity Surveying

## Modules

Credits	Semester 1
3	University English I
1	Entrepreneurship workshop & Sem.
2	Construction Materials
3	Mathematics for Quantity Surveyors
2	Engineering Graphics
2	Information system & Multimedia
3	Construction Laws & Legal Methods
Credits	Semester 2
3	University English II
3	Oman History and Islamic Culture
2	Ethics in Workplace
3	Elements of Concrete and Steel Structures
3	Land Surveying Principles and Lab
2	Architectural Drawing and Structural Drawings
Credits	Semester 3
2	University English III
3	Construction Technology I
3	Building Information Modelling I
2	Quantification and Cost Management I
2	Building Services I
3	Rate Analysis and Specification
Credits	Semester 4
2	Industrial Internship I
2	Construction Economics I
3	Statistics for Quantity Surveyors
3	Procurement and Tendering
3	Civil Engineering Construction I
2	Project Study I
Credits	Electives
3	Project Evaluation
3	Valuation and Estate Management
3	Development Economics
Credits	Semester 5
3	Financial Management
3	Construction Economics II
3	Civil Engineering Construction II
3	Construction Budgeting and Estimating
2	Innovation and Entrepreneurship
3	Construction Technology II
Credits	Semester 6
3	Quantification and Cost Management II
3	Software Application for Quantity Surveying
3	Contract Practice and Administration
3	Project Management
3	Project Study II
3	Construction Technology II
Credits	Semester 7
3	Building Information Modelling II
3	Civil Works Quantification and Cost Management
3	Building Services II
3	Arbitration and Dispute Resolution
2	Industrial Internship II
2	Research Skills
Credits	Semester 8
3	International Practices in Measurements and Contracts
3	Elective
3	Organization Behaviour and Management
3	Dissertation
3	Sustainable Construction
2	Research Skills

National University of Science & Technology

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National University  
العلوم والتكنولوجيا



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# Bachelor Degree in Civil Engineering

Designed in line with ABET requirements

## The most in - demand engineering program in the world



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### About the program

The socio economy of Oman mainly depends on construction and infrastructure development of the nation, which is the major contributor to capital generation and employment. The built environment has a major influence on the quality of life of the society and on the economic prosperity of the nation. Civil Engineering consists of various disciplines such as structural, environmental, transportation, water resources engineering and construction management. The combination of the disciplines imparts students with the knowledge of analysis and design of reinforced concrete and steel structures, highway design, waste management etc., which is necessary to succeed in today's competitive construction world.

The program provides theoretical and practical knowledge that allows you to enhance your creativity in problem solving and will as well as promote your skills to deal with digitization challenges of the industry. Laboratories are well equipped with 100T Universal Testing Machine, permeability testing, Non Destructive Testing (NDT) facilities and enables to execute student's innovative project works. We have excellent laboratory and computational facilities with design, management and drawing software such as ADAPT, STAAD Connect, SIDRA Intersection, Primavera and Auto CAD.

The degree is awarded after the successful completion of 132 credit hours of undergraduate with core in Civil Engineering and concentrations listed in the curriculum below, including a industrial internship and Capstone project.

- Structural Engineering
- Transportation Engineering
- Environmental Engineering
- Water Resources Engineering
- Construction Engineering

If you are looking for the most demanding specialization in the construction industry, Civil Engineering program is ideal. Also, if you are

### Modules

#### Semester 1

University English I
Entrepreneurship Workshop & Seminars
Calculus I
Physics I
Engineering Drawing
Basic Electrical Engineering
Engineering Workshop

#### Semester 2

University English II
Oman History and Islamic Culture
Ethics in Workplace
Calculus II
General Chemistry for Engineering
Introduction to Computer Programming

#### Semester 3

University English III
Linear Algebra and Vector Calculus
Physics Laboratory
Physics II
Engineering Mechanics
Land Surveying Principles and Laboratory

#### Semester 4

Differential Equations
Environmental Science
Professional Development for Engineers
Geology
Construction Materials
Strength of Materials
Civil Engineering Drawing

looking for good job in the construction industry, Ministries and PDO, Bachelor of Engineering in Civil Engineering is ideal. Placement opportunities are provided in various construction industries involved in building projects, bridges, roads, harbours, dams and airports.

### Awards

Students who successfully complete 132 credit hours will be awarded Bachelor of Engineering degree in Civil Engineering.

### Admission Criteria

All applicants must possess a General Education Diploma (12 year school leaving certificate) or equivalent with grade not less than C or equivalent in the following subjects

- Pure or Applied Mathematics
- Physics/Chemistry or Industrial/ Technical subjects

**Direct Entry to the Programs:** Applicants may be placed in Year 1 of the program by passing the placement tests in the following subjects:

- Basic and Pure Mathematics
- Information Technology I and II.
- English

Applicants holding a valid internationally recognized academic English certificate, IELTS (Band 5) or TOEFL (IBT 43 – 45 & PBT 500) will be exempted from English courses of the General Foundation Program.

### Career Opportunity

- Ministries of Housing, Transportation
- Civil Engineering Contractors
- Municipalities
- Water Supply & Sewage
- Road, Bridge design and construction
- Building Regulations & Compliance
- Laboratory Analysis
- Assessment of Materials
- Environmental Consultancies
- Educational and Training Institutes
- Self-Employment Opportunities
- Construction Sites
- Consulting Firms
- Government Institutions
- Pursue Postgraduate Education

#### Semester 5

Probability and Statistics
Innovation and Entrepreneurship
Geotechnical Engineering
Geotechnical Engineering Laboratory
Structural Analysis I
Fluid Mechanics
Construction Process Management

#### Semester 6

Core / Concentration Elective I
Core / Concentration Elective II
Introduction to Transportation Engineering
Hydraulics and Laboratory
Design of Reinforced Concrete Elements
Construction Technology

#### Semester 7

Core / Concentration Elective III
Core / Concentration Elective IV
Foundation Engineering
Design of Structural Steel Elements
Capstone Project I
Health and Safety in Construction

#### Semester 8

Capstone Project II
Organizational Behavior and Management
Core / Concentration Elective V
Core / Concentration Elective VI
Industrial Internship

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