



Course Descriptor
[CNMN3007 Construction Technology I]

Proposed Academic Year	2018-2019	Last Reviewed Academic Year	2020-2021
Course Code	CNMN3007	Course Title	Construction Technology I
Credit hours	4	Level of study	Undergraduate
College / Centre	College of Engineering	Department	Civil & Environmental Engineering
Co-requisites		Pre-requisites	

1. COURSE OUTLINE

[This course prepares students with the knowledge and skills of construction technology so that they can be applied efficiently to construction of domestic buildings.]

2. AIMS

[This course is focused on students learning the key principles of construction technology including a description of the site, determination and description of the foundations and substructure, design and description of the structure of a domestic building of specific design, determination and description of the envelope of domestic buildings and other structures and a description of the methods used to construct domestic buildings and other structures]

3. LEARNING OUTCOMES (*Definitive*) and TEACHING, LEARNING and ASSESSMENT METHODS

Learning Outcomes (<i>Definitive</i>)	Teaching and Learning methods (<i>Indicative</i>)	Assessment (<i>Indicative</i>)
Upon successful completion of this course, students will be able to:		
1. Demonstrate an understanding of construction drawings as a means of communication	Lecture	Assignments + Exams
2. Describe the nature of construction materials and construction techniques	Lecture	Assignments + Exams
3. Apply the principles to construction of domestic buildings	Lecture	Assignments + Exams
4. Select appropriate materials, components and elements forming the building fabric and services	Lecture	Assignments + Exams
5. Apply construction legislation to the design of building elements	Lecture	Assignments + Exams



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4. ASSESSMENT WEIGHTING

Assessment	Percentage of final mark (%)
Assignment & Participation	20%
Quiz / Case Study	20%
Midterm	20%
Final Exam	40%
TOTAL	100%

5. ACHIEVING A PASS

Students will achieve 4 credit hour for this course by passing ALL of the course assessments (Assignments, Quiz, Midterm and Final examinations) and achieving a minimum overall score of 50.0%

NB *Ensure that ALL learning outcomes are taken into account

6. Course Delivery Plan

LECTURE TOPIC	TIME (HOURS)
Construction technology suitable for domestic construction properties of construction materials	4
Construction procedures	4
Sequence of construction, foundations	4
Load bearing walls (masonry, timber, reinforced concrete and steel frames,)	4
Floors (ground and intermediate),	4
Roofs (flat and pitched)	4
Stairs	4
Internal and external finishes	4
Water	4
Electricity	4
Air conditioning	4
Drainage (above and below)	4
Legislation that governs construction –.,	4
The Building Regulations in Oman	4
Other International Building Standards	4
TOTAL HOURS	60
Plus RECOMMENDED INDEPENDENT STUDY HOURS	120



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TOTAL COURSE HOURS

180

7. RECOMMENDED READING

Core text/s:

Mike Riley and Alison Cotgrave (2013) Construction Technology I: House Construction, Basingstoke, UK.

Emmitt S and Gorse C (2014) Barry's Introduction to Construction of Buildings, 3rd Edition, Wiley Blackwell. Oxford, UK.

Chudley R and Greeno R (2012) Advanced Construction Technology, 5th Edition, Pearson Education Ltd.

Library + online resources: