

# **MSc in Energy Efficiency and Sustainable Buildings\*** **(MScEESB)**

Program Viewbook  
Canadian University Dubai

- \* An exit option is available for those who do not wish to do the thesis part of the MScEESB program. This will enable them to graduate in one year with the following degree:

**Postgraduate Diploma in Energy Efficiency and Sustainable Buildings**

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## Program Overview

The Master of Science in Energy Efficiency and Sustainable Buildings (MScEESB) is an interdisciplinary graduate program designed to prepare professionals to lead the transformation of the built environment toward energy efficiency, climate responsiveness, and long-term sustainability. Through a curriculum grounded in engineering principles, environmental design, and innovative technologies, the program addresses both local and global sustainability challenges.

## Program Completion Requirements

The degree shall be awarded to a student upon completing the following requirements:

1. Passed 30 credit hours
2. CGPA is not less than 3.0 on a scale of 4.0 points.
3. Earned at least 75% of credits at CUD.
4. Completed Thesis at CUD.

## Program Structure

Requirements	Compulsory Cr. Hrs.	Elective Cr. Hrs.	Total Cr. Hrs.
Program Core Requirements (Core Courses)	18	-	18
Program Thesis	6	6	12
<b>Total</b>	<b>24</b>	<b>6</b>	<b>30</b>

### University Requirements [General Education Courses - 24 Credits]

Course Code		Course Title	Prerequisite	Cr. Hrs.
MES	601	Energy Performance in Buildings	None	3
MES	602	Thermal and Fluid Systems in Buildings	None	3
MES	603	Sustainable Materials for Efficient Buildings	None	3
MES	604	Sustainable Design Technologies for Building Performance	None	3
MES	611	Research & Development Project	MES 601, MES 602, MES 603 & MES 604	3
MES	612	Sustainable Building Systems and Energy Optimization	MES 601 & MES 604	3
MES	700	Thesis	MES 611 & MES 612	6
<b>Elective Courses (06 Credits):</b>				
<b>Students are required to select Two Courses from the following Pool:</b>				
MES	631	International and UAE Regulations and Building Labelling	MES 601, MES 604	3
MES	632	Information Technology Applications in Building Engineering	MES 604	3
MES	633	Acoustics of Building Equipment	MES 602, MES 603	3
MES	634	Construction Management and Cost Estimation	MES 603, MES 604	3

## Study Plan

Sem.	Course Code		Subject Title	Pre-requisite	Cr. H
Semester 1	MES	601	Energy Performance in Buildings		3
	MES	602	Thermal and Fluid Systems in Buildings		3
	MES	603	Sustainable Materials for Efficient Buildings		3
	MES	604	Sustainable Design Technologies for Building Performance		3
	<b>Total</b>				<b>12</b>
Semester 2	MES	611	Research & Development Project	MES 600, MES 601, MES 602 & MES 604	3
	MES	612	Sustainable Building Systems and Energy Optimization	MES 601 & MES 605	3
	MES	XXX	Program Elective (1 of 2)		3
	MES	XXX	Program Elective (2 of 2)		3
	<b>Total</b>				<b>12</b>
Semester 3	MES	700	Thesis	MES 611 & MES 615	6
	<b>Total</b>				<b>6</b>
<b>Total</b>					<b>30</b>