

**MASTER OF SCIENCE GEOTECHNICAL ENGINEERING - CEEC702**  
**DURATION OF STUDY: 1.5 - 2 YEARS/ 3 - 4 SEMESTERS**  
**(INTAKE : MAC & OCTOBER)**

**Synopsis**

This programme is designed to nurture capable and competent specialist in geotechnical engineering who uphold sustainable development philosophy of the nation through creative and innovative process of teaching and learning, research based and professional ethics to support future needs of the national and global agenda.

A student pursuing a master's degree by coursework is required to undertake two (2) semesters of taught examinable materials followed by one (1) semester of research dissertation. The courses are career-oriented and cover both theoretical background and practical design consideration.

**Entry Requirement**

<b>General</b>	
<p>Bachelor's degree in Civil Engineering or related field with minimum CGPA of 2.75 or equivalent, from UiTM or other higher learning institutions recognised by the UiTM Senate;</p> <p>Related field:            Engineering and engineering trades; engineering technology; Applied Science; Building, Architecture and Building; Architecture and Town Planning; Management and Administration; Mechanics and Metal Work; Materials (wood, paper, plastic and glass); Environmental protection (broad programmes); Environmental protection technology; Occupational health and safety; Chemical Engineering; Mechanical Engineering; Electrical Engineering .</p> <p>OR</p> <p>Bachelor's degree in Civil Engineering or related field not meeting CGPA of 2.50, can be accepted subject to a minimum of 5 years of working experience in relevant field.</p> <p>Related field:            Engineering and engineering trades; engineering technology; Applied Science; Building, Architecture and Building; Architecture and Town Planning; Management and Administration; Mechanics and Metal Work; Materials (wood, paper, plastic and glass); Environmental protection (broad programmes); Environmental protection technology; Occupational health and safety; Chemical Engineering; Mechanical Engineering; Electrical Engineering.</p>	
<b>Local</b>	<b>International</b>
<p>OR</p> <p>Fulfilled the Accreditation of Prior Experiential Learning APEL A (T-7) admission process for Master's Degree in related fields.</p> <p>Related field:            Engineering and engineering trades; engineering technology; Applied Science; Building, Architecture and Building; Architecture and Town Planning; Management and Administration; Mechanics and Metal Work; Materials (wood, paper, plastic and glass); Environmental protection (broad programmes); Environmental protection technology; Occupational health and safety; Chemical Engineering; Mechanical Engineering; Electrical Engineering.</p>	<p><b>Language Requirements</b></p> <ul style="list-style-type: none"> <li>● TOEFL certificate with a score of at least 417-450 for (paper-based) or 107-131 (computer-based) or 35-45 (IBT); or</li> <li>● IELTS certificate with at least Band 5; or</li> <li>● MUET Band 3</li> <li>● Any English Language Test which is equivalent to B1 in the Common European Framework of Reference for Language (CEFR)</li> </ul> <p>Applicants that do not meet the English proficiency requirements are required to attend and pass the SIX (6) months of English Proficiency Class (EPC). At the end of the EPC, candidates are required to sit for</p>

	IELTS/TOEFL/MUET examination with the score according to the academic program.
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## Fee Structures

### Local

FEES	TOTAL RINGGIT MALAYSIA (RM)	
	Full-time	Part-time
Fees for semester 1	RM 2, 198	RM 1, 738
Fees for semester 2	RM 2, 125	RM 1, 665
Fees for semester 3	RM 2, 135	RM 1, 665
Fees for semester 4		RM 1, 875
<b>TOTAL ESTIMATION FOR TUITION FEES</b>	<b>RM 6, 458</b>	<b>RM 6, 943</b>

\*ESTIMATED FEES\* Subject to change

\*Fees for Convocation RM210 will be charged in the final semester

### International

FEES	TOTAL RINGGIT MALAYSIA (RM)
Fees for semester 1	RM 5, 480
Fees for semester 2	RM 5, 370
Fees for semester 3	RM 4, 980
<b>TOTAL ESTIMATION FOR TUITION FEES</b>	<b>RM 15, 830</b>

## Programme Structures

FULL-TIME		
Year 1		Year 2
Semester 1	Semester 2	Semester 3
1. ECD733 - Risk Management	1. ECD734 - Research Methodology	1. ECD735 - Research Project
2. ECG713 - Advanced Soil Mechanics	2. ECG715 - Advanced Foundation Engineering	2. ECD738 - Sustainability Management
3. ELECTIVE (Choose any TWO)	3. ELECTIVE (Choose any two)	
a. ECG711 - Tunnel Engineering	a. ECG711 - Tunnel Engineering	
b. ECG717 - Ground Stabilization	b. ECG717 - Ground Stabilization	
c. ECG712 - Ground Exploration	c. ECG712 - Ground Exploration	
d. ECG718 - Advanced Rock Engineering	d. ECG718 - Advanced Rock Engineering	
e. ECG719 - Geotechnical Numerical Modelling	e. ECG719 - Geotechnical Numerical Modelling	
f. ECG720 - Earth Retaining Structure	f. ECG720 - Earth Retaining Structure	
g. ECG730 - Geoforensic and Geotechnology	g. ECG730 - Geoforensic and Geotechnology	

<b>PART-TIME</b>			
<b>Year 1</b>		<b>Year 2</b>	
<b>Semester 1</b>	<b>Semester 2</b>	<b>Semester 3</b>	<b>Semester 4</b>
1. ECD733 - Risk Management 2. ECG713 - Advanced Soil Mechanics 3. ELECTIVE (Choose ONE only) a. ECG711 - Tunnel Engineering b. ECG717 - Ground Stabilization c. ECG712 - Ground Exploration d. ECG718 - Advanced Rock Engineering e. ECG719 - Geotechnical Numerical Modelling f. ECG720 - Earth Retaining Structure g. ECG730 - Geoforensic and Geotechnology	1. ECD734 - Research Methodology 2. ECG715 - Advanced Foundation Engineering 3. ELECTIVE (Choose ONE only) a. ECG711 - Tunnel Engineering b. ECG717 - Ground Stabilization c. ECG712 - Ground Exploration d. ECG718 - Advanced Rock Engineering e. ECG719 - Geotechnical Numerical Modelling f. ECG720 - Earth Retaining Structure g. ECG730 - Geoforensic and Geotechnology	1. ECD738 - Sustainability Management 2. ELECTIVE (Choose ONE only) a. ECG711 - Tunnel Engineering b. ECG717 - Ground Stabilization c. ECG712 - Ground Exploration d. ECG718 - Advanced Rock Engineering e. ECG719 - Geotechnical Numerical Modelling f. ECG720 - Earth Retaining Structure g. ECG730 - Geoforensic and Geotechnology	1. ECD735 - Research Project