



## PROGRAMME DESCRIPTION

Masters Degrees in Civil Engineering would produce highly competitive researchers and professionals in the fields of civil engineering capable of taking challenges involved in designing, implementing and maintaining vital infrastructure, from everyday tunnels, bridges and railways to flood barriers and earthquake protection systems. The students will be given a stimulating teaching environment which blends conventional lectures and tutorials with online materials. The curriculum would include supportive programs with industry and other academic institutions, including new developments, current implementation status and prospects of future expansion. The program would impart and enhance capability and capacity to develop a healthy body and mind to become a disciplined individual, disciplined manager, and disciplined leader.

For successful completion of Masters degree in LUC, each candidate should publish minimum of Two research articles in scopus indexed journals, with Lincoln affiliation.

## PROGRAMME AIM

The aim of this program is to produce graduates who are both skilled in structural engineering principles and have the ability to apply and solve complex open-ended engineering works and problems. The program of Master of Science in Civil Engineering will produce Civil Engineers who are:

- Knowledgeable to apply practical skills to face the challenges and opportunities of the rapidly evolving civil engineering field.
- Capable of demonstrating individual, professional and social responsibility through value and attitudes.
- Able to organize and relate ideas coherently in written, oral, and graphic form using standard conventions and tools and synthesize information, and draw reasoned inferences in the field of civil engineering.
- Proficient with information management skills to pursue advanced educational opportunities, along with the development of life-long learning skills for enquiry based learning.

## PROGRAMME DURATION

Full Time: 18 Months.

Part Time: 36 Months.

## CAREER OPPORTUNITIES

Masters Degrees in Civil Engineering program is to encourage students to make unceasing and diligent efforts to pursue holistic self-development to cultivate self-discipline and integrity, to nurture creativity into broad-minded future leaders with a global outlook. Civil and structural engineers work in a range of sectors, particularly the construction sector, on buildings of all kinds of transport and communications infrastructure. Career prospects after a Masters in Civil Engineering include:

- Building control surveyor
- Consulting civil engineer
- Contracting civil engineer
- Nuclear engineer
- Site engineer
- Structural engineer
- Water engineer
- Building services engineer
- Engineering geologist
- Environmental consultant
- Patent attorney
- Quantity surveyor
- Sustainability consultant



**Call us :**

**1 300 880 111 (Malaysia)**

**+603 78063478 (International)**

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## INTAKE AND ENTRY REQUIREMENTS

January, June

### Entry Requirements:

- Bachelor's Degree (Phase 6 MOH) in Engineering with a minimum CGPA of 2.50 or equivalent as received by the Lincoln University College; Or
- Bachelor's degree (level 6 KKM) in Engineering or equivalent to it but not achieving CGPA 2.50, admitted being subject to a minimum of five (5) years working experience in relevant fields.

For candidates who hold a Bachelor's Degree (Level 6 MOH) in Science or Technology (not Engineering), the pre-requisite module in Engineering must be offered to prepare them for further study.

For candidates who have a Bachelor's Degree (Level 6 KKM) not in Mechanical Engineering need to take Machine Design course.

For international students

Test Score of English as a Foreign Language (TOEFL) 500 or an International English Language Testing System (IELTS) 5.0 score or equivalent. If students do not meet these criteria, Lincoln University College must offer English language proficiency courses to ensure that students' proficiency is adequate to meet program requirements. This is usually done through the assessment process.

## LIST OF COURSE/MODULE OFFERED IN THE PROGRAMME

Sl.No.	Subject Name
1.	Construction Methods and Equipment's
2.	Structural Dynamics
3.	Pre-stressed Concrete
4.	Advanced Soil Mechanics*
5.	Research Methodology
6.	Design of Substructures
7.	Structural Stability
8.	Project Management
<b>Student's need to choose one specialised area (A or B or C or D or E) and select any three Elective courses from the same area of specialization.</b>	
<b>A - Geo-Technical Engineering (MCEG)</b>	
9.	Soil Exploration
10.	Soil Structure Interaction*
11.	Environmental Geo-techniques*
12.	Earthquake Geo-technical Engineering*
<b>B- Structural and Construction Engineering (MCEC)</b>	
13.	Energy Conservation Techniques in Building Construction*
14.	Advanced Theory of Concrete Structures*

Sl.No.	Subject Name
15.	Advanced Construction Techniques*
16.	Advanced Steel Structures*
<b>C - Water Resources Engineering (MCEW)</b>	
17.	Design of Hydraulic Systems*
18.	Advanced Fluid Mechanics*
19.	Hydro power Engineering*
20.	Water Quality Modelling*
<b>D- Environmental Engineering (MCEE)</b>	
21.	Wastewater treatment*
22.	Water and Wastewater Engineering*
23.	Industrial Pollution Control and Prevention Technologies*
24.	Principles of Environmental Management*
<b>E- Highway and Engineering (MCEH)</b>	
25.	Railway Engineering*
26.	Design of Pavements*
27.	Geometric Design of highways*
28.	Highway and Airport Pavement Materials*
29.	Research Project

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