Programme Specification Document

Approved, 2022.02

Overview

Programme Code	36310
Programme Title	Civil Engineering
Awarding Institution	Liverpool John Moores University
Programme Type	Level 3/4/5 Qualification
Language of Programme	All LJMU programmes are delivered and assessed in English
Programme Leader	
Link Tutor(s)	Karl Jones

Partner Name	**Partnership Type**
International College of Business and Technology	Validated

Awards

Award Type	**Award Description**	**Award Learning Outcomes**
Target Award	Higher Diploma - HD	See Learning Outcomes Below
Alternative Exit	Certificate of Higher Education - CHE	Demonstrate knowledge of the underlying concepts and principles associated with Civil Engineering, and an ability to evaluate and interpret these within the context of that area of study. Demonstrate knowledge of the underlying concepts and principles associated with Civil Engineering, and an ability to evaluate and interpret these within the context of that area of study. Demonstrate an ability to present, evaluate and interpret qualitative and quantitative data, in order to develop lines of argument and make sound judgements in accordance with basic theories and concepts of Civil Engineering. Demonstrate an ability to present, evaluate and interpret qualitative and quantitative data, in order to develop lines of argument and make sound judgements in accordance with basic theories and concepts of Civil Engineering.

Alternate Award Names	

External Benchmarks

Subject Benchmark Statement	UG-Engineering (2019)

Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length
Part-Time, Face to Face	March	ICBT, Colombo	2 Years
Part-Time, Face to Face	September	ICBT, Colombo	2 Years

Aims and Outcomes

Educational Aims of the Programme

To provide fundamental knowledge in and develop an advanced understanding of the theory and practice of mathematics, civil engineering construction technology, engineering mechanics and strength of materials, site surveying, management of health and safety, geology and soil mechanics, computer aided design, structural analysis and modelling, fluid mechanics and hydraulics, hydrology and structural design in the wider business, built environment and civil engineering sectors. To provide opportunities for the appreciation and understanding of the significant factors constraining the effective management and development of the built environment and major infrastructure, e.g. physical, legal, economic, sustainable and technological factors. To provide opportunities for collaborative and individual student-centred study on project tasks that simulate real working practices in order to develop analytical, critical and problem solving skills such that they can define, investigate and analyse problems, form judgements, make decisions and demonstrate the acquisition of such qualities. To provide the framework within which students can achieve the level of attainment, appropriate to their abilities in the context of the programme of study. To prepare students for the transition from Higher Education to employment within a professional context; and develop those transferable, specialist and employability skills that all stakeholders could reasonably expect of students who successfully complete a Higher Diploma in Civil Engineering. To encourage students to engage with the development of employability skills.

Learning Outcomes

Code	Description
PLO1	Operate in situations of varying complexity and predictability requiring the application of a wide range of techniques and information sources.
PLO2	Select appropriate techniques/criteria for evaluation and discriminate between the relative relevance and significance of data/evidence collected.
PLO3	Identify external expectations and adapt own performance accordingly.
PLO4	Undertake complex and non-routine performance tasks.
PLO5	Analyse performance of self and others and suggest improvements.

Code	Description
PLO6	Interact effectively within a team, giving and receiving information and ideas and modifying responses where appropriate.
PLO7	Recognise and ameliorate situations likely to lead to conflict.
PLO8	Be aware of personal responsibility and professional codes of conduct.
PLO9	Assess own capabilities using justifiable criteria set by self and others taking the wider needs of the context into account.
PLO10	Use feedback to adapt own actions to reach a desired aim and review impact.
PLO11	Adapt interpersonal and communication skills to a range of situations, audiences and degrees of complexity.
PLO12	Act with limited supervision and direction within defined guidelines, accepting responsibility for achieving personal and/or group outcomes and/or outputs.
PLO13	Have detailed knowledge of well-established theories and concepts.
PLO14	Demonstrate an awareness of different ideas, contexts and frameworks and recognise those areas where the knowledge base is most/least secure.
PLO15	Identify, analyse and communicate principles and concepts, recognising competing perspectives.
PLO16	Undertake research to provide new information and/or explore new or existing data to identify patterns and relationships.
PLO17	Use appropriate theoretical models to judge the significance of the data collected, recognising the limitations of the enquiry.
PLO18	Collect and synthesise information to inform a choice of solutions to problems in unfamiliar contexts.
PLO19	Analyse a range of information, comparing alternative methods and techniques.

Programme Structure

Programme Structure Description

This programme will be studied on a part time basis. The schedule for the delivery of the modules will be determined by ICBT Campus and communicated to LJMU prior to students commencing on each stage of the programme.

Structure - 240 credit points	
Level 4 - 120 credit points	
Level 4 Core - 120 credit points	CORE
[MODULE] 4500ICBTCE Engineering Maths for Engineers Approved 2022.01 - 15 credit points	
[MODULE] 4501ICBTCE Learning Skills Approved 2022.01 - 15 credit points	
[MODULE] 4502ICBTCE Civil Engineering Construction Technology Approved 2022.01 - 15 credit points	
[MODULE] 4503ICBTCE Engineering Mechanics and Strength of Materials Approved 2022.01 - 15 credit points	
[MODULE] 4504ICBTCE Site Surveying Approved 2022.01 - 15 credit points	
[MODULE] 4505ICBTCE Management and Health - Safety Practice in Construction Approved 2022.01 - 15 credit points	
[MODULE] 4506ICBTCE Geology and Soil Mechanics Approved 2022.01 - 15 credit points	
[MODULE] 4507ICBTCE Computer Aided Design for Civil Engineering Approved 2022.01 - 15 credit points	
Level 5 - 120 credit points	
Level 5 Core - 120 credit points	CORE
[MODULE] 5500ICBTCE Structural Analysis and Modelling Approved 2022.01 - 15 credit points	
[MODULE] 5501ICBTCE Fluid Mechanics and Hydraulics for Civil Engineering Approved 2022.01 - 15 credit points	
[MODULE] 5502ICBTCE Advanced Construction Technology Approved 2022.01 - 15 credit points	
[MODULE] 5503ICBTCE Advanced Mathematics Approved 2022.01 - 15 credit points	
[MODULE] 5504ICBTCE Civil Engineering Hydrology and Environmental Science Approved 2022.01 - 15 credit points	
[MODULE] 5507ICBTCE Civil Engineering Structural Design Approved 2022.01 - 15 credit points	
[MODULE] 5510ICBTCE Multidisciplinary Project Approved 2022.01 - 15 credit points	
[MODULE] 5511ICBTCE Individual Student Project Approved 2022.01 - 15 credit points	

Module specifications may be accessed at https://proformas.ljmu.ac.uk/Default.aspx

Teaching, Learning and Assessment

Lectures, tutorials, problem solving sessions, seminars, workshops, computer sessions, participation in projects. Examinations, assignments, preparation of reports, essays, technological reports, oral presentations, workshops, peer review, computer-based exercises.

Opportunities for work related learning

As this is a part time programme, students will be apply knowledge attained in their employment to their academic studies.

Entry Requirements

Type	Description
Alternative qualifications considered	Completion of 13 years of formal education in Sri Lanka (or equivalent) and have studied A levels in subjects that include Maths, a Science or Technology.Ordinary level qualifications plus the successful completion of a NARIC approved Foundation programme in a construction subject.A programme of study that is equivalent to a UK level 3 qualification.
Other international requirements	English Language requirements: Students are required to have a minimum English language level of Sri Lankan General Certificate of Education (Ordinary Level) English Grade C or above, or a pass in the ICBT Academic English Studies course or recognised equivalent, such as the below: • GCSE/O-Level in English from a UK awarding body grade C • IGCSE English as a First Language grade C • IGCSE English as a Second Language grade C • Internet based TOEFL with an overall score of 72 (UG), 79 (PG) including 17 in Listening, 20 in Writing, 18 in Reading and 18 in Speaking • Pearson Test of English (PTE) • International Baccalaureate (Standard Level Grade 5/Higher Level grade 4 in English) • Cambridge Advanced English Grade C (minimum of “weak” in all four components (listening, reading, speaking and writing). Mature entry: In exceptional circumstances, candidates with non-standard qualifications, may qualify for entry to the course on the basis of considerable work experience in the automotive engineering industry.

Extra Entry Requirements