

Subject Description Form

Subject Code	CSE591
Subject Title	EV Dissertation
Credit Value	9
Level	5
Pre-requisite	
Objectives	The objective of this subject is to train students to design a research-type work to solve problems in major environmental engineering and management areas.
Intended Learning Outcomes	Upon completion of the thesis, students will be able to: - apply the fundamentals of applied science, mathematics, and statistical methods to formulate effective solutions for complex problems within a specific environmental engineering or management domain; - critically analyse and interpret data for an in-depth study of a particular process or subject area in recognised environmental engineering and management fields; - address the challenges and developments of the profession, such as climate resilience and carbon neutrality, including the application of emerging technologies, environmental modeling, and sustainability frameworks in real practices; - communicate logically and lucidly through data visualization, quantitative analysis, and in academic writing; - present ideas and arguments verbally in formal presentations; - demonstrate critical and creative thinking, alongside an ability to work independently; - recognise the need for, and develop an ability to engage in, life-long learning; - reflect on and review their progress, and seek assistance or guidance as appropriate in order to enhance the quality of their work.
Subject Synopsis/ Indicative Syllabus	The dissertation should be an exposition of a student's own work and ideas. Where others have had an input, this should be clearly identified. Since the subject areas of dissertations are so diverse it is impossible to define a standard approach to content, but included, should be an introduction and definition of objectives, a literature survey, a review of the problem followed by a description of the student's approach to solving the problem, the results or findings, an intellectual analysis of the results or findings, and finally a logical review of the conclusions drawn.

**Teaching/Learning
Methodology**

Dissertation Supervisor Allocation

Students must submit a prioritised list of preferred supervisors through the online platform. When a single applicant selects a supervisor, they will be automatically assigned to that student. However, if multiple students select the same supervisor, the supervisor will conduct meetings with the candidates to determine which student(s) they will supervise.

Dissertation Proposal

Students should discuss with their supervisors to devise a dissertation title and prepare an initial proposal for approval by the programme leader. A dissertation proposal should consist of the following: Objectives; Content, which includes innovative features, challenge, academic value and applicability; Methodology; References; Scheduled programme of work; Description of facilities and justification; Starting date; Expected completion date.

Dissertation Supervision and Progress

Students are expected to pursue “unaided” investigations relevant to the chosen topic. The supervisor only acts as a mentor to provide guidance and advice to the student throughout the research period. Although such guidance is available to the student, it is stressed that the ultimate responsibility for the direction and content of the dissertation lies with the student.

Progress Report

Students are expected to submit a progress report to the Programme Leader via their academic supervisor at least once every semester to ensure smooth progress of the dissertation.

Students should inform their academic supervisor(s) immediately when difficulties arise.

Submission of Dissertation before Assessment

Under normal circumstances, with the agreement of the supervisors, students may prepare for assessment after satisfactory progress by the deadline set by the department.

Assessment

After submission of the dissertation, the academic supervisor shall make arrangements with the assistance of the department on a mutually convenient time and place for an oral exam at which the other assessors will be present.

The assessment panel will consist of two categories of members, namely: the supervisors (Academic, professional and co-supervisor if relevant) and a moderator appointed by the programme leader to provide quality control.

	In case the supervisors and the moderator have a very different view on the assessment, the programme leader concerned will make the final decision. <u>Academic Integrity</u> In case of proven academic dishonesty, it would result in a disqualification of the dissertation, and disciplinary actions will be taken by the Department or the Student Discipline Committee, in accordance with the relevant sections of the Student Handbook. Acts of academic dishonesty include but are not limited to cheating, plagiarism, unauthorised collaboration or help, fabrication and falsification of results, and aiding academic dishonesty.																																																																				
Assessment Methods in Alignment with Intended Learning Outcomes	<table><tr><th rowspan="2">Specific assessment methods/tasks</th><th rowspan="2">% weighting</th><th colspan="8">Intended subject learning outcomes to be assessed</th></tr><tr><th>a</th><th>b</th><th>c</th><th>d</th><th>e</th><th>f</th><th>g</th><th>h</th></tr><tr><td>Project Proposal</td><td>0%</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Progress</td><td>20%</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>Report</td><td>50%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td></tr><tr><td>Oral Presentation</td><td>30%</td><td>✓</td><td>✓</td><td>✓</td><td></td><td>✓</td><td></td><td></td><td></td></tr><tr><td>Total</td><td>100%</td><td colspan="8"></td></tr></table>	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed								a	b	c	d	e	f	g	h	Project Proposal	0%									Progress	20%	✓	✓	✓			✓	✓	✓	Report	50%	✓	✓	✓	✓					Oral Presentation	30%	✓	✓	✓		✓				Total	100%								
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