College of Engineering



Department of Civil Engineering

Department of C	Livii Engineering		
	CE 598 Research Project		
Credit and Contact hours	1/1 (Lectures), 0 (Tutorials), 0 (Laboratory)		
Required, or Elective	Mandatory for a MSCE degree (course-based)		
Course Description	Research project provides students with the opportunity to understand the research process, and to participate in it by analysing, presenting and writing up their research results.		
	The research project course should encompass a replication of in latest recent journal papers. The research project can take the experimental work and/or theoretical analysis related to the research final course report should be presented. And a final presentate work is to be delivered to an examination committee.	e form of earch subject.	
Prerequisites or Co-requisites	N/A		
Course Learning	Students completing this course successfully will be able to		
Outcomes	Course Learning Outcomes	Related Program Outcomes	
	CLO1: Acquire new knowledge about selected research project in the relevant field	K1	
	CLO2: Be able to model and/or simulate and/or perform theoretical and experimental studies related to the system under study and demonstrate the ability to identify problem issues critically, independently and creatively.	K1	
	CLO3: Enhance their capacity to collect and analyse data and other information and demonstrate specialized methodological knowledge in the main field of study	S1	
	CLO4: Investigate real-life engineering problems using modern engineering tools in a research project	S2	
	CLO5: Enhanced their skills in criticizing and discussing the results of other team research project	C1	
	CLO6: Analyze the performance of civil engineering systems.	C1	

	CLO7: Project report and presentation to Examination committee.	C1	
Student Outcomes related to this Course	K1 . Recognize advanced engineering knowledge, concepts and techniques to identify, interpret and analyze complex and real-life engineering problems.		
	S1 . Provide solution for complex and real-life engineering problems through critical thinking and using modern engineering tools and identify its impact on social and ethical issues.		
	rough a team ced tools,		
	C1 Criticize and discuss scientific research reports /papers related Engineering issues with high level of ethics and proficiency independently, or as a team work.		
Topics Covered	List of Topics	Related CLOs	
	State the general topic and give some background	CLO1	
	Provide a review of the literature related to the topic	CLO1	
	Find the problem statements of the research topic	CLO2	
	Identifying the research gaps of the selected topics	CLO2	
	Identifying and outline the research methodology	CLO3	
	Comparative analysis discussion	CLO4	
	Discuss the theoretical and test Results	CLO5	
	Writing conclusion and recommendation	CLO6	
	final report evaluation	CLO7	
	Final Presentation	CLO7	
Textbook(s) and Other Required Material	Online scientific resources and dependent on the chosen spec	ial topic(s)	
Grading System	Pass and Fail system		
Instructors	All faculty involved in teaching and supervise graduate students		
Date of Review	March, 2021		