College of Engineering Department of Civil Engineering



CE 596 Thesis proposal				
Credit and Contact hours	1 Credit hour			
Required, or Elective	Required			
Course Description	This course is intended for preparing the M.Sc. thesis proposal. The M.Sc. thesis proposal should be related to a contemporary civil engineering topic.			
Prerequisites or Co- requisites	Completion of 50% of M.Sc. coursework.			
Course Learning Outcomes	Students completing this course successfully will be able to:			
	Course Learning Outcomes (CLOs)	Related Student Outcomes (SO)		
	CLO1. Recognize the state of art in related research topics to the field of Civil Engineering to identify the research gaps through detailed literature review. K1	SO1		
	CLO2. Criticize and discuss scientific publications to identify the research gaps in research topics related to the fields of Civil Engineering. S3	SO4		
	CLO3. Define the research problem statement through critical thinking and clearly define the objective of the M.Sc. thesis research proposal in the relevant field of civil engineering. S2	SO3		
	CLO4. Select the appropriate research methodology to implement the research objectives in a timely manner. S2	SO3		
	CLO5. Demonstrate Scientific integrity, ethical responsibility and academic values through the preparation and the presentation of the research proposal. V1	SO6		
	CLO6. Provide a clear research plan in order to manage and implement all tasks involved in the research proposal with a high level of autonomy and responsibility. V2	S07		
Student Outcomes related to this	SO 1 Recognize advanced engineering knowledge, concepts, and techniques to identify, interpret and analyze complex and real-life engineering problems			
	SO 3 Investigate scientific research problems independently or through teamwork using critical thinking, appropriate techniques, advanced tools, and management principles.			
	SO 4 Criticize and discuss scientific research reports /papers related to Civil Engineering issues with a high level of ethics proficiency and communication skills, independently, or as a teamwork.			
Course	SO 6 Demonstrate scientific integrity, ethical responsibility, and academic values in scientific publications, research projects, and thesis work.			
	SO 7 Effectively manage, individually or in groups, specialized tasks and activities in coursework, projects, assignments, and research work with a high level of autonomy and responsibility.			

	List of Topics	Related CLOs
	1. Initiating research proposal	CLO 1,3,4
	2. Developing a working title and planning the research	CLO 2,3
	3. Summarize the results of scientific papers related to the MSc thesis	CLO 2,3
Topics Covered	4. Choice of research paradigm, methodology, and methods of data collection	CLO 1-5
	5. Design of research methodology	CLO 4,5
	6. Generic skills and practices for proposal development	CLO 1,2,4
	7. Writing the dissertation proposal	CLO 5,6
	8. Defend MSc Thesis proposal.	CLO 1,5,6
Textbook(s) and Other Required Material	 Dependent on the chosen special topic(s) Latest Journal papers and conferences on chosen special topics Students are encouraged to search the internet for relevant research materials in reputable journals and scientific websites. 	
Grading System	Submitting and presenting the 1st draft of M.Sc. Thesis Proposal.	15%
	Midterm exam through a presentation to supervisory committee.	30%
	Submitting and presenting the 2nd draft of M.Sc. Thesis Proposal.	15%
	MSc Thesis Proposal Defence through a presentation to the examination committee.	n 40%
Instructors	Appointed Supervisor	
Date of Review	November, 2024	