

Course Title	Graduation Project	Coordinator			
Course Code	519-CE-3	Credit Hrs.	3	Contact Hrs.	3
Prerequisites	Department approval (Completion of 126 Credit Hours).	Level/Year		9-10/5	
Couse Objective: Students must be prepared for engineering practice through the curriculum culminating in a major design experience based on the knowledge and skills required in earlier course work and incorporating engineering standards and realistic constraints that take into account considerations such as: economic; environmental; safety; manufacturability; ethical; and social aspects. The objectives of this course where student can: <ul style="list-style-type: none">• Select and plan an engineering project involving analysis and design tasks• Perform a literature survey• Formulate, as a team, civil engineering design• Perform the relevant calculations, analysis, and implement his design.• Understand economic, environmental issues related to technology.• Evaluate the impact of engineering on societal issues.• Communicate technical information in writing.• Communicate in oral and critically evaluate technical information					
Teaching Method: Independent study/research, group discussion, meetings are scheduled with the supervisor for the particular project. Each students' group will meet together weekly, keeping detailed minutes of the meetings.					
Course Learning Outcome: <ul style="list-style-type: none">• Ability to perform a literature survey• Ability to formulate design an engineering project, by setting objectives that are appropriate for the project purpose and scope and that take into account the following aspects: economic; environmental; manufacturability; ethical; safety; social; and political.• Ability to plan an engineering project involving multiple tasks and contributors.• Ability to identify, formulate and solve an engineering problem.• Ability to work effectively on a team to complete the project.• Ability to implement, evaluate, and document a project design.• Ability to communicate technical information in writing.• Ability to communicate technical information in oral presentations.• Recognize the need for a lifelong learning.• Ability to use modern tools in engineering solving problems					
Topic Covered		1. Literature survey 2. Engineering design 3. Proposals 4. Project planning, budgeting, and management 5. Professionalism, ethics 6. Technical reports 7. Oral presentations			
Text Book (s): <ul style="list-style-type: none">• Varies with the particular project.					

Reference Materials:	
<ul style="list-style-type: none"> Varies with the particular project. 	
Mode of Evaluation:	
Student progress and project product:(Assessed by the supervisor(s)):	25
Log book (Assessed by the supervisor (s))	5
Professional Conduct includes (Assessed by the supervisor(s)): <ul style="list-style-type: none"> Cooperation with the project group Alignment with the code of ethics Attendance in discussion sessions with supervisor 	20
Project Report	20
Presentation and defense (assessed by at least two panel members and the supervisor(s))	30
Total	100
Course Ground Rules	
The following department rules will be applied: <ul style="list-style-type: none"> The deadline for submitting a hard copy of the project report is one week before the presentation. If student does not submit the report on time, a 25% of the report grade will be deducted for every day delay. If no report is submitted 24 hours before the presentation, a grade F will be given to the whole project. Other additional rules by the supervisor 	