



HASAN KALYONCU UNIVERSITY
Civil Engineering Department
CE 499 Project Proposal Form

Part I. Project Proposer

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Part II. Project Information

Starting Term	2 0 2 0 / 2 0 2 1
Title of the Project	Study and design of reinforced concrete structure
Project Description	
A reinforced concrete residential building consists of three floors will be designed. The student will study and design the main structural elements of this building according to building standards. All design calculations for sellescted elements such as slabs, beams, columns and foundations will be prepared by using suitable methods.	
Project Justification	
Novelty	
New aspects	students will be able to deal with an integrated structural system including the main elements of the structure such as slabs, beams, columns and foundations
Complexity	
Challenging problem and issues	the communication with engineers from different discipline
Related civil engineering science fields and subfields	Structural Analysis, Reinforced Concrete Design, Civil Engineering Drawing, Computer Applications in Civil Engineering, Materials Science, Strength of Materials, Statics.
Tools	SAP2000 + AutoCAD + Hand calculation
Risk involved	
Potential problems and alternative solutions	The availability of computer programs. Alternatively, hand methods will be applied using equations according to building standards such as TS-500, ACI-318.
Minimum work required	<ul style="list-style-type: none">- Sufficient knowledge and skills related Structural Analysis and Reinforced Concrete Design methods and standards. Therefore, to accept the student in this project he should be passed in: Structural Analysis, Reinforced Concrete Theory and Reinforced Concrete Structure Elements.- 2-3 Students can be accepted in this project.