

HASAN KALYONCU UNIVERSITY **Civil Engineering Department**

CE 499 Project Proposal Form

Part I. Project Proposer			
Name Lastname	DIA EDDIN NASSANI	E-mail	diaeddin.nassani@hku.edu.tr
Part II. Project Information			
Starting Term	2 0 1 9 / 2 0 2 0		
Title of the Project	Design of Structures using SAP2000		
Project Description			
In this project, students will study and design a residential concrete building, it consist of 4 floors. During the period of this project, students will use computer aids such as (AutoCad and SAP2000) to draw the idealized model of a selected building as a structural model and will define all types of loads effect on this building such as dead loads, live loads, and wind loads. Then, students will study and design the main structural elements of this building according to building standards. Deesign calculations for sellescted elements such as shear walls, slabs, beams, columns and foundations will be prepared by using suitable methods and procedures with respect to students background in structural analysis, reinforced concrete theory, and reinforced concrete structure elements courses. At the end of this project, students will draw all required structural drawings to introduce the final results of this project.			
Project Justification			
Novelty			
New aspec	In this project, the student will be able to deal with an integrated structural system including the main elements of R. C. Building in case of high-rise concrete tower. The methods and techniques, which are required to connect between the architectural drawings and the flow chart of different types of loads, will be introduced through this project reaching the final structural drawings of selected elements including its cross-section dimensions and reinforcement details.		
Complexity			
Challenging problem a issu	Torrodia improvo nio okino to know now to doo compator aido, and now to concet air required information nom		
Related civil engineeri science fields a subfiel			
Тос	SAP2000		
Risk involved			
Potential problems a alternative solutio	The availability of computer programs. Alternatively, hand methods and Excel sheets will be applied using equations according to building standards such as TS-500, ACI-318		
Minimum work requir	□ Sufficient knowledge and skills related to Structural Analysis, Reinforced Concrete Design methods, and Building Standards. Therefore, to accept a student in this project, he should be passed in: Structural Analysis, Reinforced Concrete Theory and Reinforced Concrete Structure Elements. □ 1-4 Students can be accepted in this project.		