

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		
Title of the Project	Water Supply and Sanitation Project: A case study of Selected Province	
Project Description		

In this project, one case study of water supply and sanitation project will be done. Students will do required calculations based on selected province. Following calculations will be done by students.

- A province which has a population of 100000 people.
- Population increases will be calculated based on standards (İller Bankası)
- Water Demand will be calculated based on population increase.
- Water supply and will be founded.
- Water conveying structures like storage, pipes etc. will be designed.
- Based on rainfall data of the province design rainfall and discharge will be calculated.
- Sanitation structures like channel, pipes will be designed.
- Elements which need water will be calculated.
- Basin management will be constructed.

Project Justification Novelty			
Complexity			
Challenging problem and issues	The main challenge in this project could be addressed as how to make the student able to contact between his theoretical background, according to his previous undergraduate courses, and this practical project. The student should improve his skills to know how to collect all required information from separated resources and how to use it for study and design		
Related civil engineering science fields and subfields	Water Resources Engineering, Hydraulics.		
Tools	Designs Standards, Software Programs (If possible).		
Risk involved			

Potential problems and alternative solutions		
Minimum work required	 Sufficient knowledge and skills related Water Resources Engineering, Hydraulic and the Design standards. Therefore, to accept the student in this project he should be passed in introduction to Water Resources Engineering and Hydrulics. 3 Students can be accepted in this project. 	