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	2019/2020
Title of the Project	Performance Analysis of ArcGIS in Stream Flow Forecasting of Göksu River
Project Description	
In this study, Considering that water resources are not evenly distributed around the world, management of water and its effective usage is very important. Determining the morphological characteristics of the basins is important to measure the river flows regularly in order to ensure the sustainability of water resources. For this purpose, current measurements on site take a lot of time. Therefore, river flows are estimated by practical measurements. Due to the determination of a flow-level relation for each AGI and the flow-level relations may change over time, error can be seen in the flow estimates. For this, alternative estimation methods are needed. In this study, the Deep Learning model was created and the performance of the model was analyzed on the current data obtained from Akdere AGI, Aşağıçöplü village, D21A183 on the Göksu River	
Project Justification	
Novelty	
New aspects	The students will be ready for understanding about water management system. In this project, the student will be able to deal with how to analyze the flow measurement stations upon ground water resources. The methods and techniques, which are necessary to analyze and forecasting the current situation related with the temperature changing on earth will be introduced during this project.
Complexity	
Challenging problem and issues	The main challenge in this project could be indicated as how to make the student motivate for team working and research about the subject and collect all the data each week. The students should improve their skills to know how to collect all information from required areas and how to use it for study.
Related electrical-electronics science fields and subfields	Water resources management, Water Supply, Hydraulic
Tools	Meteorological data related with flow measurement station. Necessary to take information from hydraulic state works and directorate of meteorology
Risk involved	
Potential problems and alternative solutions	The availability of meteorological data Alternatively, by the lack of data from meteorology directorate, all necessary information will be taken from Hydraulics State Works.
Minimum work required	Sufficient knowledge and skills related water resources management and its applications. Therefore, to accept the student in this project he or she should be passed or still continue in: Hydraulic, Water resources management. Apart from this it is very important to take technical elective course or courses. 1-3 Students can be accept for this graduation project