

HASAN KALYONCU UNIVERSITY Civil Engineering Department

CE 499 Project Proposal Form

E-mail

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Part I. Project Proposer

Name Lastname

Asst. Prof. Dr. Volkan KALPAKCI

Part II. Project Information		
Starting Term	2 0 2 0 / 2 0 2 1	
Title of the Project	Design of a Cantilever Pile Retaining Wall	
Project Description		
	cantilever pile retaining wall. During design process studet will use related softwares ne-strain analyses for design. Cost analysis will also be made.	
Project Justification		
Novelty		
New aspects	Student will learn to perform finite element analysis in geotechnical engineering.	
Complexity		
Challenging problem and issues	The project is a deep excavation supporting a school wall. So, displacement should be limited which is a challenging issue for a cantilever wall.	
Related civil engineering science fields and	Geotechnical	

Risk involved

subfields

Tools

Potential problems and	In case of a problem softwares may be altered.
alternative solutions	

Hand calculations, excel sheets, AutoCAD, Plaxis

Minimum work required To construct a fully working finite element model, to determine the dimensions of the pile, cost analysis, prepare a report and a presentation.