HASAN KALYONCU UNIVERSITY
Faculty of Engineering
Course Description Form

COURSE: Graduation Project				
CODE: CE499	**SEMESTER:** FALL			
LANGUAGE: ENGLISH	**TYPE:** COMPULSORY			
PRE-REQUISITES:	**THEORY**	**PRACTICAL**	**CREDIT**	**ECTS**
WEEKLY HOURS:	0	8	4	5

CONTENT OF THE COURSE:
The student designs complex systems such as reinforced concrete or steel structure, hydraulic system, geotechnical design based on real data, and makes economic analysis of these designs. After the graduation paper topics in this scope are determined, the student completes the graduation paper by being included in a randomly formed team of 3-5 people. A chairman is chosen for the team. A faculty member supervises the team. Within the scope of the content described above, the students are asked to provide the site plan, the project design stages, the architectural project of the design, the design project, the analysis results, the detailed drawings, the material information, the results of the environmental impact assessment, economic analysis, quantity, item numbers and cost calculations with the current unit price. Graduation project booklet is prepared in accordance with the provided guidelines. In addition, students prepare a presentation CD and attach it to the assignment to be submitted, all team members present their work to the admission committee.

OBJECTIVE OF THE COURSE:
Upon successful completion of the course, students are expected to have the following competencies:
LO1: Analyze the problem, and conducting an effective literature survey and be able to contrast and critique related work. Plan effectively for the various project lifecycle activities, and then develop an efficient solution.
LO2: Be able to work effectively as part of a team with colleagues and advisor.
LO3: Manage one's own learning and development, including time management and organizational skills.
LO4: Appreciate the need for continuing professional development.

WEEKLY SCHEDULE	
Weeks	**Topics**
1-2	**Phase 1: Initiating** • Creating the groups and select the topic(Students must submit the Project Selection Form)

3-4	**Phase 2: Problem definition (Problem Statement)** • Literature Reviews (Historical and theoretical background). • Current / Existing systems. • Proposed scope and enhancement. • Development of Project Objectives.
5-6	**Phase 3:** • Test and analysis • Problem solution
7	**Interim Report are due**
8-12	**Phase 4: Implementation/Test** • The final product will be built. • Testing: making some test to ensure that the final product and its all functionalities have been implemented working properly. • Designing the project poster.
13	**Final Report is due** • Checking the format and similarity
14	**Final Report (last version) is due**

TEXTBOOK:
Students will be guided by the supervisor through some study notes, books, and research articles.
Other appropriate learning resources are possibly related to the nature of the research project.

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**
LO1	3	3	3	3	0	0	0	0	0	1	1
LO2	0	0	0	0	0	3	0	0	0	0	0
LO3	2	2	2	2	2	3	0	0	0	0	0
LO4	1	1	1	1	0	0	0	0	0	0	0
	PO: Program Outcomes | LO: Learning Outcomes Values: 0: None | 1: Low | 2: Medium | 3: High										

INSTRUCTOR(S):	All Instuctors
FORM PREPARATION DATE:	13/9/2019

LEARNING OUTCOMES OF THE COURSE:
LO1: Analyze the problem, and conducting an effective literature survey and be able to contrast and critique related work. Plan effectively for the various project lifecycle activities, and then develop an efficint solution. **LO2**: Be able to work effectively as part of a team with colleagues and advisor. **LO3**: Manage one's own learning and development, including time management and organizational skills. **LO4**: Appreciate the need for continuing professional development.

CONTRIBUTION OF THE COURSE TO VOCATIONAL EDUCATION
Students, learn to design complex processes under real and limited conditions, to work as a team, to project processes related to discipline (planning, writing, research, ethics, presentation), within the scope of the project they receive.