

**CEV492E GRADUATION DESIGN PROJECT (.....-..... FALL/SPRING SEMESTER)
RUBRIC FOR FINAL DESIGN PROJECT**

TEAM NO/NAME : TEAM MEMBERS :	EVALUATER(S): TOTAL GRADE:
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Description	Comments	Grade
REPORT/PROJECT (18 Points)		
Grammar / Technical Writing Skills (2 Points)	Competent <input type="checkbox"/> Moderate <input type="checkbox"/> Incompetent <input type="checkbox"/> Comments(s):	
Statement of Purpose (2 Points)	Purpose(s) are presented: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
	Project is clearly defined: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
	Contents: Available <input type="checkbox"/> Not Available <input type="checkbox"/> List of Tables: Available <input type="checkbox"/> Not Available <input type="checkbox"/> List of Figures: Available <input type="checkbox"/> Not Available <input type="checkbox"/> Format of Tables: Suitable <input type="checkbox"/> Not Suitable <input type="checkbox"/> Format of Figures: Suitable <input type="checkbox"/> Not Suitable <input type="checkbox"/> List of Appendix: Available <input type="checkbox"/> Not Available <input type="checkbox"/>	
General Project Format (6 Points)		
Literature Review (2 Points)	Competent <input type="checkbox"/> Moderate <input type="checkbox"/> Incompetent <input type="checkbox"/> 'Conclusion' part is included and the results are discussed: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Conclusion and Discussion (3 Points)	References are properly cited in the body: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
References (3 Points)	References are presented completely and in proper format in 'References' part: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
SUB-TOTAL (REPORT/PROJECT)		

DESIGN (60 Points)		
Legal Issues (2 Points)	Related legislation is investigated and evaluated: Competent <input type="checkbox"/> Moderate <input type="checkbox"/> Incompetent <input type="checkbox"/> Comments(s):	
Project Area (2 Points)	Characteristics (geographic, meteorologic, geologic, etc.) of the investigated project area are investigated in detailed: Competent <input type="checkbox"/> Moderate <input type="checkbox"/> Incompetent <input type="checkbox"/> Comments(s):	
Wastewater Treatment Plant (WWTP) Process (12 Points)	WWTP process alternatives (minimum 3) are defined and their flow schemes are presented: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
	Basic process calculations of the proposed alternatives are done, compared and presented in a table: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
	Approximate general layout of the most appropriate alternative is presented: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
Conceptual Design (Preliminary-Investigation) (4 Points)	Conceptual (preliminary) design report is presented: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
Feasibility Report / Draft Project (40 Points)	Final general layout and the piping plan of the WWTP are presented: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
	Appropriate equipments are selected for the WWTP: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
	Architectural drawings of each WWTP unit are presented: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
	Final hydraulic profile of the WWTP is presented: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
	P&I diagram of the WWTP is presented: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments(s):	
SUB-TOTAL (DESIGN)		

TIMING (GANT CHART) and COSTING (22 Points)		
Gant Chart (4 Points)	Gant chart for the required assignments is presented: Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Comments(s):	
Gant Chart (4 Points)	Duty of each team member is defined: Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Comments(s):	
Cost Analysis (18 Points)	Necessary cost calculations are done for the file including bill of quantity, price bill of quantity and tender: Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Initial investment costs (construction/equipments/fittings/control/automation, etc.): Available <input type="checkbox"/> Not Available <input type="checkbox"/>	
	Operation costs (energy, chemicals, staff, maintenance and repairing, etc.): Available <input type="checkbox"/> Not Available <input type="checkbox"/>	
	Total investment cost calculations are presented: Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Unit cost (TL/m ³ ; TL/capita) calculations are presented: Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Comments(s):	
Cost Analysis (18 Points)	Wastewater tariff proposal is prepared: Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Comments(s):	
SUB-TOTAL (TIMING (GANT CHART) and COSTING)		
TOTAL		

