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

TEAM NO/NAME TEAM MEMBERS						
Description			Comments			Grade
2000		REPORT/PROJE		s)		
Grammar / Technical Writing Skills (2 Points)	Competent Comments(s):	Moderate		Incompetent		
Statement of Purpose (1 Point x 2 = 2 Points)	Purpose(s) are presented: Comments(s):	Yes		No		
	Project is clearly defined: Comments(s):	Yes		No		
General Project Format (1 Point x 5 = 5 Points)	Contents:	Available		Not Available		
	List of Tables:	Available		Not Available		
	List of Figures:	Available		Not Available		
	Format of Tables and Figures: List of Appendix:	Suitable Available		Not Suitable Not Available		
Literature Review (2 Points)	Competent Competent	Moderate		Incompetent		
Conclusion and Discussion (2 Points)	'Conclusion' part is included ar	nd the results are o	discussed:	Yes □ No		
References (1 Point x 2 = 2 Points)	References are properly cited i Comments(s): References are presented com Comments(s):	·	per format in '	Yes □ No References' part: Yes	□ No □	
				SUB-TOTA	AL (REPORT/PROJECT)

	DESIGN (50 Points)	
Legal Issues (3 Points)	Related legislation is investigated and evaluated: Competent	
Project Area (3 Points)	Characteristics (geographic, meteorological, geologic, etc.) of the investigated project area are investigated in detailed: Competent Moderate Incompetent Comments(s):	
Wastewater Treatment Plant (WWTP) Process (2 Points x 3 = 6 Points)	WWTP process alternatives (minimum 3) are defined and their flow schemes are presented: Yes No Comments(s): Basic process calculations of the proposed alternatives are done, compared and presented in a table: Yes No Comments(s): Approximate general layout of the most appropriate alternative is presented: Yes No Comments(s):	
Conceptual Design (Preliminary-Investigation) (2 Points)	Concentual (preliminary) design report is presented:	
(2.5)	Final general layout and the piping plan of the WWTP are presented: Yes No Comments(s): Appropriate equipment are selected for the WWTP: Yes No	
Feasibility Report /	Comments(s): Architectural drawings of each WWTP unit are presented: Comments(s):	
Draft Project (6 Points x 6 = 36 Points)	Final hydraulic profile of the WWTP is presented: Comments(s): No	
	Piping and Instrumentation Diagram (P&ID) of the WWTP is presented: Yes No Comments(s): "Application of advanced principles and practice": Novelty, and if applicable innovativeness, is realized in at least one of the following aspects: Treatment process / technology /design / project management, etc. Yes No	
	Comments(s): SUB-TOTAL (DESIGN)	

		NMENTAL MANAGE		,					
Risk Assessment		•	ors are predicte	d, and a risk plan is deve	eloped:				
(3 Points)	Competent	Moderate		Incompetent					
Uncertainty	Uncertainties for syster	n design are specified:							
(3 Points)	Competent	Moderate		Incompetent					
Sustainability Sustainability with respect to economic, social, and environmental aspects is considered:									
(3 Points)	Competent	Moderate		Incompetent					
Life-Cycle Assessment	1	steps for the WWTP ar	e considered a	nd relevant necessary ev	aluation is carried out:				
(3 Points)	Competent	Moderate		Incompetent					
Environmental Impacts	Environmental benefits	/ hazards to the projec	ct area and the l	ocal community are fored	casted:				
(3 Points)	Competent	Moderate		Incompetent					
	•			(ENVIRONMENTAL MA	NAGEMENT ISSUES)				
				NALYSIS (20 Points)		T			
	Gantt chart for the requ	ired assignments is pr							
Work-Duty Schedule (1 Point x 2 = 2 Points)	Yes		No						
(1 Point x 2 = 2 Points)	Duty of each team men Yes	iber is defined:	No						
		tions are done includin		, price bill of quantity and	d tender:				
	Yes		No quarrity						
	Initial investment costs (construction/equipments/fittings/control/automation, etc.):								
	Availab		Not Available						
	Operation costs (energy	y, chemicals, staff, ma	intenance and r	epairing, etc.):					
Cost Analysis	Availab		Not Available						
(3 Points x 6 = 18 Points)	Total investment cost calculations are presented:								
	Yes		No						
	Unit cost (TL/m³; TL/ca	oita) calculations are p	resented:						
	Yes		No						
	Wastewater tariff propo	sal is prepared:							
	Yes		No TOTAL (LOCOT ANIAL VOICE				
			SUB-TOTAL (F	PROJECT SCHEDULE a					
					TOTAL	1			