CEV492E GRADUATION DESIGN PROJECT (..... FALL/SPRING SEMESTER) RUBRIC FOR GRADUATION DESIGN PROJECT FOR INTEGRATED SOLID WASTE MANAGEMENT

TEAM NO/NAME	•
TEAM MEMBERS	:
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EVALUATER(S):

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TOTAL GRADE:

Description	Comments						Grade			
REPORT/PROJECT (15 Points)										
Grammar / Technical Writing Skills	Competent	Moderate			Incom	npetent				
(2 Points)	Comments(s):									
	Purpose(s) are presented:	Yes			No					
Statement of Purpose	Comments(s):									
(1 Point x 2 = 2 Points)	Project is clearly defined:	Yes			No					
	Comments(s):									
	Contents:	Available		Not Av	vailable					
General Project Format	List of Tables:	Available		Not Av	vailable					
(1 Point x 5 = 5 Points)	List of Figures:	Available		Not Av	vailable					
	Format of Tables and Figures:	Suitable			uitable					
	List of Appendix:	Available		Not Av	vailable					
Literature Review (2 Points)	Competent	Moderate			Incom	npetent				
Conclusion and Discussion (2 Points)	'Conclusion' part is included an	nd the results are di	scussed:	Yes		No				
	References are properly cited i	n the body:		Yes		No				
References	Comments(s):									
(1 Point x 2 = 2 Points)	References are presented completely and in proper format in 'References' part: Yes \Box No \Box									
	Comments(s):									
					รเ	ЈВ-ТОТА	AL (REF	PORT/PR	OJECT)	

DESIGN (50 Points)					
Legal Issues (3 Points)	Related legislation is investigated and evaluated: Competent Moderate Comments(s): Incompetent				
Project Area (3 Points)	Characteristics (geographical, meteorological, geological, etc.) of the investigated project area are investigated in detailed: Competent Moderate Incompetent Comments(s):				
Integrated Solid Waste Management Plant (2 Points x 3 = 6 Points)	Alternatives (min 2 sites) for the integrated solid waste management plant are presented and selection reasons are explained: Yes No Comments(s): No The proposed alternatives are compared and presented in a table: Yes No Yes No Comments(s): No Topographical map (existing situation) of the most appropriate alternative and approximate general layout of the plant are presented: Yes No Comments(s): Yes	-			
Conceptual Design (Preliminary-Investigation) (2 Points)	Conceptual (preliminary) design report is presented: Yes No Comments(s):	-			
Feasibility Report / Draft Project (6 Points x 6 = 36 Points)	Excavation and filling plans of the plant are presented: Yes No Comments(s): Leachate calculations are done and drainage (collection) plan is presented: Yes No Gas amount is calculated and locations of the gas wells at the plant are shown in the drawings : Yes No Yes No Comments(s): Management plan for the biodegradable waste management is given and design of minimization/recovery plant is done: Yes Yes No Comments(s): Management plan for packaging waste is given and MRF capacity is determined: Yes No Comments(s): Management plan for packaging waste is given and MRF capacity is determined: Yes No Comments(s): Management plan for packaging waste is given and MRF capacity is determined: Yes No Comments(s): Yes No No Comments(s): No "Application of advanced principles and practice": Novelty, and if applicable innovativeness, is realized in at least one of the following aspects: Disposal method / technology /design / project management, etc. Yes No	-			
	Comments(s): SUB-TOTAL (DESIGN)				

	ENVIRONMENTAL MANAGEMENT ISSUES (15 Points)						
Risk Assessment	Risk factors are identified, impacts of risk factors are predicted, and a risk pla	an is developed:					
(3 Points)	Competent 🗆 Moderate 🗆 Inco	mpetent 🗆					
Uncertainty	Uncertainties for system design are specified:						
(3 Points)	Competent 🗆 Moderate 🗆 Inco	mpetent					
Sustainability	Sustainability with respect to economic, social, and environmental aspects is considered:						
(3 Points)		mpetent					
Life-Cycle Assessment	Life-cycle assessment steps for the plant are considered and relevant neces						
(3 Points)	•	mpetent					
Environmental Impacts	Environmental benefits / hazards to the project area and the local community						
(3 Points)	Competent 🗆 Moderate 🗆 Inco	mpetent 🗆					
SUB-TOTAL (ENVIRONMENTAL MANAGEMENT ISSUES)							
	PROJECT SCHEDULE (GANTT CHART) and COST ANALYSIS (20	Points)					
Work–Duty Schedule	Gantt chart for the required assignments is presented: Yes						
(1 Point x 2 = 2 Points)	Duty of each team member is defined:						
	Yes No						
	Necessary cost calculations are done including bill of quantity, price bill of qu	antity and tender:					
	Yes No						
	Initial investment costs (construction/equipment/fittings/control/automation, etc.):						
	Available 🛛 Not Available 🗆						
	Operation costs (energy, chemicals, staff, maintenance and repairing, etc.):						
Cost Analysis	Available 🛛 Not Available 🗆						
(3 Points x 6 = 18 Points)	Total investment cost calculations are presented:						
	Yes No						
	Unit cost (TL/ton waste; TL/capita) calculations are presented:						
	Yes No D						
	Waste management tariff proposal is prepared:						
	Yes No						
	SUB-101AL (PROJECT SCH	EDULE and COST ANALYSIS)					
		TOTAL					