COE 485 Senior Design Project

Final Report Assessment Table

Course Learning Outcomes	Outcome Indicators and Details	Weight	Score (1-5) 5=Highest	Comments
O1. Ability to apply knowledge of mathematics, science, and engineering	• Developing solutions that utilize fundamental scientific and engineering concepts.	5%		
O2. Ability to design and conduct experiments, as well as to analyze and interpret data	• Design and conduct experiments (including simulation and/or emulation) to explore the design space • Collect, analyze and interpret data	2%		
O3. Ability to design a system, component, or process to meet desired needs	• System design from high level specifications • Detailed design of the required components • Implementation of a prototype	4%		
O4. Ability to identify, formulate, and solve engineering problems	• Defining formal specifications from the problem statement. • Examination of different approaches.	5%		
O5. Understanding of professional and ethical responsibility	• Presentation of original work and proper referencing of existing art. • Meeting deadlines and proper planning.	1%		
O6. Ability to communicate effectively	• Ability to clearly document the work • Effectively communicate the project details orally	3%		
O7. The broad education necessary to understand the impact of engineering solutions in a global and societal context	• Understanding the impact of his solution to the society such as: healthcare, e-commerce…etc.	1%		

O8. A recognition of the need for, and an ability to engage in life-long learning	• Providing solutions that were not taught in core courses	2%		
O9. Knowledge of contemporary issues	• Understating the impact of contemporary issues on his design	1%		
O10. Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	• Demonstrate the use of engineering software/hardware tools	2%		
O11. Ability to function as an effective team member.	• Demonstrate team work skills in project planning, division of work, team leadership, etc.	4%		