

ELEC 3300 Project Grading Rubric

Project Demonstration: Max 32 marks

Project Presentation: Max 8 marks

Acknowledgment - This rubric is adopted and modified from the INQUIRY AND ANALYSIS VALUE RUBRIC by Association of American Colleges and Universities. Number in bracket shows the corresponding marks for that level of performance. **Students may ask to modify their codes during the project demonstration in need.**

	Capstone	Milestones		Benchmark	Below Benchmark
	4	3	2	1	0
Project Complexity	The whole project consists of a complex hardware and software design. Careful hardware design and software design algorithm is being shown. (12)	Hardware consists of various kind of interface before going to the processor, with software controlling the other interfaces. (9)	Project hardware includes extra hardware/software components and other features of the processor. (6)	Project hardware is a mix of analogue and digital signals, software part used majority lab-covered features of the processor. (3)	The processor directly controls all the aspects of the hardware, simple controls are used in the software. (0)
Design Justification	System is designed with clear and correct justification. Students show the appropriate use of analog, digital signals and methodology. (10)	System is designed with appropriate use of analog, digital signals, and correct methodology. (6)	System is designed only according to the LAB material. Little justification and demonstration the use of I/O in the design. (4)	Little understanding of the project. System is designed with weak justification and demonstration of LAB knowledge or methodology. (2)	No understanding of the project. System is designed without any justification of LAB knowledge nor methodology. (0)
Project Originality	Application of labs together with extra circuits or software extended to creative design. (6)	Extended integration of lab materials with extra circuits or software. (4)	Project is an application of all the labs done before. (2)	Project is an application of three or more of the lab experiments. (1)	Project is an application of less than three lab experiments. (0)
Completeness	The project can run smoothly without major error. (4)	The project can run with specified inputs. It encounters error with input that is not specified. (3)	The project can run smoothly, however, it encounters errors on specified input. (2)	The project can run, however, it encounters errors on specified input. (1)	The project cannot run, however, can show partial functionality with forced input with either hardware or software. (0)
Oral Presentation with PowerPoint	Presentation referenced to information or analysis that significantly supports the project work. (8)	Project presentation is clear and consistent with the supporting material. (6)	Project functions are described clearly with explanation of special features.	Fair description of project, still understandable, but is not often repeated and is not memorable. (2)	Project function can only be deduced, it is not explicitly stated in the presentation. (0)