

RBG: RUBRIC FOR EVALUATING PROGRAM OUTCOME B
"DESIGN AND CONDUCT ELECTRICAL ENGINEERING EXPERIMENTS, AS WELL AS TO ANALYZE AND INTERPRET DATA"

Performance Indicator	Exemplary 4	Satisfactory 3	Developing 2	Unsatisfactory 1
Ability to conduct experiment	Quite able to conduct the entire experiment with negligible help from the lab instructor.	Able to conduct experiment with some help from the lab instructor.	Able to conduct experiment with a lot of help from the lab instructor.	Unable to conduct experiment on his own; lab instructor provides help in almost every step of the experiment.
Data collection and presentation	Collects data very accurately; very systematically; presents data very clearly using appropriate graphics; figure captions and units are always included.	Collects data accurately most of the time; systematically most of the time; presents data clearly using appropriate graphics; figure captions and units are included most of the time.	Some of the data collected is inaccurate; somewhat systematic in data collection; data presentation is not that clear; figure captions and units are not always included.	Much of the data collected is inaccurate; not at all systematic in data collection; presents data in a very obscure manner.
Data analysis and interpretation	Always analyzes and interprets data correctly and precisely; always draws correct and useful conclusions; always compares theory against experiment and calculates related error.	Analyzes and interprets data correctly most of the time; most of the conclusion are correct and useful; compares theory against experimental data and calculates related error most of the time.	Analyzes and interprets data correctly occasionally; some conclusion are incorrect; occasionally compares theory against experimental data and calculates related error.	Analyzes and interprets data incorrectly most of the time; many conclusions are incorrect; most of the time never attempts to compare theory against experiment data.
Subject Knowledge	Fully understands the experiment, including its purpose and results; able to discuss experimental protocols in a clear and precise manner.	Has very good understanding of the experiment, its purpose and results; able to discuss experimental protocols in a reasonably clear manner.	Has some understanding of the experiment, its purpose and results; almost able to discuss experimental protocols in a clear manner.	Has poor understanding of the experiment, its purpose and results; unable to discuss experimental protocols.

Notes:

- 1) This rubric, RBG, is to be used for program outcome (b) assessment in any EE lab with the exception of EE 390 lab.
- 2) Evaluation of students' performance using this rubric is to be reported using the corresponding excel file **RBG-EEXXX Lab-Section (yyy)-zzz.xls**.
- 3) Before sending the filled excel file, please rename it using the following naming codes: **XXX** = core course number, **yyy** = lab section number and **zzz** = current semester code. Example: **RBG-EE201 Lab-Section (051)-081.xls**.