

R2-EE411: RUBRIC FOR EVALUATING PROGRAM OUTCOME 2

"An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors"

Performance Indicator	Exemplary 4	Satisfactory 3	Developing 2	Unsatisfactory 1
Define the problem and constraints	Fully defines the project; fully aware of its stated requirements and constraints.	Provides a good definition to the project; knows its stated requirements and constraints.	Provides a fair definition to the project; partially aware of its stated requirements and constraints.	Provides a vague or no definition to the project; vague understanding of its stated requirements and constraints.
Select of the best design alternative that satisfy the constraints	Engineering design process is very clear/correct.	Engineering design process is reasonably clear/correct.	Engineering design process is not that clear/correct.	Engineering design process is vague/incorrect.
Produce a prototype/model that meets the design requirements	Produces an excellent prototype; all stated design requirements and constraints are fully met; able to propose alternative system designs.	Produces a reasonable prototype; stated design requirements and constraints are almost/mostly met.	Produces a fair prototype; stated design requirements and constraints are only partially met.	Failed to produce a prototype; stated design requirements and constraints are not met.

Notes:

- 1) This rubric, R2-EE411, is to be used for program outcome (2) assessment for EE411.
- 2) Evaluation of students' performance using this rubric is to be reported using the corresponding excel file **R2-EE411-Section (xx)-yyy-DIRECT.xls**.
- 3) Before sending the filled excel file, please rename it using the following naming codes: **xx** = section number and **yyy** = current semester code. Example: **R2-EE411 Section (01)-201-DIRECT.xls**.
- 4) Evaluation of students' performance using this rubric is based on the final design project.