

TE251 PRODUCT DEVELOPMENT GROUP ASSIGNMENT 2 MARKING RUBRIC (Project/Prototype/Model) – Semester 2 2014

NAME: \_\_\_\_\_ ID NO.: \_\_\_\_\_

FACET OF RESEARCH	ELEMENT	EXCELLENT(4)	PROFICIENT(3)	AVERAGE(2)	POOR(1)
<i>A. Students embark on inquiry and so determine a need for knowledge / understanding</i>	<b>DESIGN</b>	Product is strongly design based Shows definite relationship to project design	Some evidence of design presented	A few evidence of design presented	Product has no design basis No relationship between design and product
<i>B. Students find / generate needed informational data using appropriate methodology</i>	<b>RESEARCH</b>	Product is strongly research based Shows definite relationship to research findings	Some evidence of research presented	A few evidence of research presented	Product has no research basis No relationship between research finding and product
<i>C. Students critically evaluate informational data and the process to find / generate this information / data</i>	<b>CREATIVITY</b>	Completely new idea Not a copy of another product Innovative	Creative use of a unique product	Creative use for an existing product	Obvious copy of another's idea, lacks innovation
	<b>ACCURACY</b>	All details are included in its correct location and at its correct scale according to the design. Process.	Some details are constructed to the correct size and cause only minor mistakes to the rest of the design	A Number of details are not constructed to the correct size and cause some mistakes to the rest of the design.	There is a significant number of scaling errors or misplaced details. These mistakes may cause the rest of the construction to be off to some extent
<i>D. Students organise information collected / generated</i>	<b>APPARENT EFFORT</b>	Student/Group design was difficult and finished the product with a great amount of effort, skills and problem solving.	Student/Group put forth a good amount of effort and skills but the product still looks like it could have a little more time spent on it.	Student/Group put forth a good amount of effort but the product still looks like it could have a little more time spent on it.	There was no effort apparent in putting together the product. It was constructed in the least amount of time with easy construction practices
	<b>TEAM DYNAMICS</b>	Great organization and planning with full participation and technical contributions from all members. Utilizes technical strengths of each team member to full advantage leading to productive interaction.	Adequate organization and planning with contributions from all members of the team. Some leadership, planning and interaction is evident.	Minimal organization and planning with limited contributions of most team members. Significant deficiencies in leadership, cooperation and/or interaction. End result may suffer to some degree	Little or no distribution of work efforts and responsibilities. Little or no ability to work together in a professional and productive manner adversely affecting end result
<i>E. Students synthesize and analyse and apply new knowledge</i>	<b>QUALITY OF CONSTRUCTION/ MANUFACTURE</b>	High degree of Skillful Construction/Manufacture is clearly & neatly made with appropriate tools/equipment. The edges and corners fit together nicely and there is no excess parts overhanging the edges.	Excellent Construction/Manufacture is made with appropriate tools/equipment. The edges and corners fit together. Less excess parts overhanging.	Construction/Manufacture is jagged. There are few areas where some smudges of parts and over application of adhesives & joints	Lack of skill demonstrated through construction and as a result the parts choppy and crooked.
	<b>COMPLETENESS</b>	All necessary detail are contained within the product	There are some (3- 5) details missing from the product	There are some (3- 5) details missing from the product	There are many details missing from the product (+5)
<i>F. Students communicate knowledge and the processes used to generate it, with an awareness of ethical social and cultural issues</i>	<b>OVERALL APPEARANCE</b>	The product is very well put together. The amount of effort put into making the model/prototype is clearly apparent.	There are a few manufacturing/Construction gaps in the model/prototype. Some effort apparent	A number of manufacturing/Construction gaps in the model/prototype. A few effort apparent	The model/prototype is poorly built and falls apart. Most edges & joints do not fit tightly together
	<b>OVERALL PD IMPRESSION</b>	Exceptional skills and processes incorporate in final product.	Some skills and processes incorporate in final product	Acceptable skills and processes incorporated in final product	Low level skills and processes incorporated in final product.
<b>TOTAL</b>					

Total score: ...../40..... 20% = ..... Markers Initial: TTR.