OENG1115, Assessment item 2: Innovation and technology management report (individual assessment)

Weighting of final grade: 50%

Related course learning outcomes: 3

Due date: 4th October 2020 at 11.55pm

Assessment description:

Based on the project concept you select from the Course project options, you will submit a report on your work integrating and applying key operational aspects of managing innovation and technology to an engineering project**.** Word count target: 2500 to 3000 words

Assessment detail:

Based on one of the Course projects you will prepare a detailed report for managing innovation and technology to deliver a specific and defendable operational outcome. You will:

- Briefly research and outline a specific technology or an innovation that would benefit the project and the objective behind implementing it

    o *Tip: pick one technology or one innovation only. This this does not need to be 'new to the world' or your personal new idea but rather something that is not normally used in that project area*
- Outline a succinct business case and risks underpinning why the project managers should consider proceeding with your approach

    o *Tip: consider using the Business Canvas and Heilmeier Catechism to help with this*
- Outline a detailed strategy based on sound theoretical reasoning for sourcing / developing the technology or innovation and its integration / commercialization. You will also consider its longer-term management post integration as relevant to the project.

    o *Tip: Consider the whole life cycle from the inspiration for the new technology or innovation through to how you will implement it and manage it longer term*
- Consider implications of intellectual property and its management if applicable.

    o *Tip: Even if you do not view the management of intellectual property as important in your circumstance still note the reasons for why you feel so)*
- Consider organisational culture and key internal and external stakeholders

    o *Tip: who do you need to influence to ensure your new technology or innovation can be successfully implemented)*

Remember to include:

- Front cover including your project choice, your name and student number
- Detailed references to support your approach
- Word count number (excluding images, tables, graphs and captions and references thereof)

Assessment Rubric:

Criterion	Fail (NN)	Pass (PA)	Credit (CR)	Distinction (DI)	High Distinction (HD)
Insight (25%)	No or limited interpretation, analysis or scholarly input	Minimal interpretation, analysis, and depth of thinking than what was presented in lectures	Some interpretation, analysis and depth of thinking over and above lecture materials and readings	Significant interpretation, analysis and depth of thinking. Useful conclusions and approaches	Exceeds expectations in terms of interpretation, analysis and depth of thinking, novel and insightful conclusions and approaches
Content (50%)	Nil or minimal attainment of requirement, off topic, Report is not coherent	Meets minimal requirements for content, on topic but gaps, basic input of information. Broadly report is coherent	Meets requirements for content. Report is coherent	Meets requirements for content, some original content. Report is coherent	Exceeds requirements, significant original content throughout and thorough understanding demonstrated. Report is coherent
Structure and language (10%)	Layout and logic is confusing, language is poor, spelling and grammar mistakes	Structure is sufficient to express content, ideas may be presented in a disorganised manner. Some grammar and spelling issues	Content is generally organised logically; generally, language is appropriately crafted to reflect intent	Structure is sound and supports logical exposition. Easy and interesting to read and digest	Outstanding presentation of materials that supports all requirements. Interesting and insightful language
Evidence & Referencing (15%)	No evidence to support content, copied materials with no citations, weblinks only	Minimal referencing and support provided, inconsistent citation style, mainly weblinks	Most points are supported by evidence with citation generally appropriate and consistent	Excellent integration of evidence into the work, often primary sources used, citations and referencing appropriate and consistent	Outstanding integration of significant research efforts to support arguments. Primary sources used appropriately and consistently

Recommended Referencing Style:

Harvard (Author-Date) style

The Harvard referencing style is another popular style using the author-date system for in-text citations.

In-text citation:

It consists mainly of the authors' last name and the year of publication (and page numbers if it is directly quoted) in round brackets placed within the text. If there is no discernable author, the title and date are used.

Reference list:

The reference list should be ordered alphabetically by the last name of the first author of each work. References with no author are ordered alphabetically by the first significant word of the title.

Use only the initials of the authors' given names. No full stop and space between the initials. Last name comes first.

Here is an example that cites a book with one author using Harvard style.

In-text citation	Reference list
.....(Neville 2010) or Neville (2010, p. 25) stated that.....	Neville, C 2010, *The complete guide to referencing and avoiding plagiarism*, Open University Press, New York.