جامعة الحسين التقنية
Al Hussein Technical University

ASSIGNMENT BRIEF

HTU Course No: 030202190   **HTU Course Name:** Managing a Successful Computing Project

BTEC UNIT No: H/618/7407   **BTEC UNIT Name:** Planning a Computing Project

Version: 1

1 Assignment Brief

Student Name/ID Number/Section	
HTU Course Number and Title	30202190 - Managing a Successful Computing Project
Academic Year	2022/2023 Fall
Assignment Author	Nayef Abu-Ageel Lina Hammad Dania Alsaid Malik Louzi
Course Tutor	Nayef Abu-Ageel Lina Hammad Dania Alsaid Malik Louzi
Assignment Title	The environmental impact of digital transformation
Assignment Ref No	No. 1
Issue Date	06/11/2022
Formative Assessment dates	Every week until 12/1/2023
Submission Date	**Quiz**: 1/12/2022 **Report**: 1/12/2022
IV Name & Date	Safaa Hriez & Heba Alawneh 10/11/2022
Submission Format	

Report:
- Technical report (.docx)
- Logbooks (.docx)
- Declaration Form (.pdf)

Presentation:
- Weekly or biweekly presentations to describes your project.

Quiz:
- The quiz will be on Campus on 1/12/2022 (Thursday)

Reports Guidelines:
Your submissions should be in the form of a soft copy via the eLearning school system. The report should be:
a. Written in professional style format
b. **Include a cover page:** Tour name, Assignment Title, Organization name, date
c. Your work must be supported with references using the Harvard reference system.

Unit Learning Outcomes

LO1 Conduct small-scale research, information gathering and data collection to generate knowledge on an identified subject.

LO2 Explore the features and business requirements of organisations in an identified sector.

Assignment Brief and Guidance

Scenario

The amount of data created and stored globally is expected to reach 175 Zettabytes by 2025, a six-fold increase from 2018. This will demand additional hardware and power consumption, which; in turn, will increase the environmental impact of the digital sector and there is already increasing attention on the environmental footprint of ICT equipment and services as they become more widespread in all aspects of human life.

It is the responsibility of everyone to take action in addressing the challenges of climate change, as professionals we must also seek ways that the digital sector can play its part. While digital technologies are one of the sectors that has achieved greater efficiency; achieving about 100 times more computation power from the same amount of energy per decade, it remains unsustainable. The sector must continue to seek ways in which it can continue to support and drive innovation, while addressing the global climate emergency for a greener and fairer future.

In this imagined scenario, an organization such as a company, non-profit entity, or governmental unit wants to address the environmental footprint associated with its equipment and digital services. As one way to meet this goal, the selected organization has decided to explore different solutions to help reduce the environmental footprint of the organization's ICT equipment and services. In one meeting, some stakeholders were interested in solutions that enable the organization to reduce its environmental footprint. The stakeholders then agreed to conduct small research to investigate the potential of refurbishing, repairing and reusing the organization's digital devices rather than replacing them. As Project Manager your responsibility is to:

Prepare a Technical Report that provides a detailed insight into the potential of refurbishing, repairing and reusing digital devices rather than replacing them for the selected organization. The report should have four main parts: an introduction, a research study, organizational study, proposal, and you should submit logbooks.

- **Technical Report – Introduction**
    - Write an introduction about the concept of digital transformation and its impact on the environment in all aspects. This should include a review of a minimum of five relevant resources such as articles, books, and other sources. This part provides an overview of literature published on the topic.
    - Investigate what kind of devices can be reutilized or what kind of technology can be used or installed in old devices to enable their reuse.

- **Technical Report – Research Study**
  - Carry out small-scale research by applying qualitative and quantitative research methods (e.g. online surveys) to generate relevant primary data for reducing the environmental footprint of the selected organization (i.e., the identified theme). You need to consider the sampling techniques and methods that you plan to use. The survey should have a minimum of 10 participants.
  - Analyse data and information from primary and secondary sources to generate knowledge on an identified theme using appropriate tools and techniques.
  - Assess and interpret the research findings to evaluate how the research theme supports the business requirements of the selected organization. This point depends on the Organizational Study below.

  Technical Report – Organizational Study
  - Investigate the features and the operational areas of the selected organization and how they support the organization's purpose. Examples of business functions include human resources, research and development, sales, marketing, purchasing, production and quality, finance, public relations, customer service, IT, administration. Address at least three of these business functions.
  - Discuss the role of stakeholders (internal and external) and their impact on the success of the selected organization. Internal stakeholders include management, employees, and shareholders. External stakeholders include suppliers, customers, government agencies, and communities.
  - Assess the challenges to the success of the organization business, which include:
    - Legislation and industry standards relevant to the organization.
    - Change management, including planned changes such as expansion, diversification, changes in legislation, and system upgrades.
    - Communication of need for change to stakeholders.
    - Management of stakeholders before during and after change such as training, target setting, and support
    - Method of implementation of change (project).
  - List the organization requirements (e.g. new devices, hire more people, cost, time, scope, quality, …)

- **Technical Report - Proposal**
  Use the provided Proposal Template to prepare a Project Proposal to present your work and solution to your manager. The Proposal should include: (1) main stakeholders, their roles in the selected organization, and their impact on the success of organization's business. (2) project overview showing the project's summary, objectives, business justification, technology, risks, scope, timeline, and milestones. Make sure that the solution supports the organization's strategic objectives and business requirements.

- **Logbook**
  Submit a logbook with every section. Use the logbook template.

Assessment Criteria		
Pass	**Merit**	**Distinction**
LO1 Conduct small-scale research, information gathering and data collection to generate knowledge on an identified subject.		**D1** Interpret findings to generate knowledge on how the research theme supports business requirements in the identified sector.
P1 Demonstrate qualitative and quantitative research methods to generate relevant primary data for an identified theme. **P2** Examine secondary sources to collect relevant secondary data and information for an identified theme.	**M1** Analyse data and information from primary and secondary sources to generate knowledge on an identified theme.	
LO2 Explore the features and business requirements of organizations in an identified sector.		
P3 Discuss the features and operational areas of a businesses in an identified sector. **P4** Discuss the role of stakeholders and their impact on the success of a business.	**M2** Analyse the challenges to the success of a business in an identified sector.	

STUDENT ASSESSMENT SUBMISSION AND DECLARATION

When submitting evidence for assessment, each student must sign a declaration confirming that the work is their own.

Student name:	Assessor name:	
Issue date: 6/11/2022	**Submission date:** 1/12/2022	**Submitted on:**
Program: Computing		
HTU Course Name: Managing a Successful Computing Project	**HTU Course Code:** 30202190	
BTEC Course Name: Planning a Computing Project	**BTEC UNIT:** H/618/7407	
Assignment number and title: The environmental impact of digital transformation, Assignment number 1		

Plagiarism

Plagiarism is a particular form of cheating. Plagiarism must be avoided at all costs and students who break the rules, however innocently, may be penalized. It is your responsibility to ensure that you understand correct referencing practices. As a university level student, you are expected to use appropriate references throughout and keep carefully detailed notes of all your sources of materials for material you have used in your work, including any material downloaded from the Internet. Please consult the relevant unit lecturer or your course tutor if you need any further advice.

Student declaration

I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice.

Student signature: **Date:**