**ASSIGNMENT 1 FRONT SHEET**

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| **Qualification** | **BTEC Level 5 HND Diploma in Computing** | | |
| **Unit number and title** | Unit 13: Computing Research Project | | |
| **Submission date** | 00/00/2024 | **Date Received 1st submission** | 00/00/2024 |
| **Re-submission Date** |  | **Date Received 2nd submission** |  |
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| **Class** | IT0502 | **Assessor name** | Nguyen Thanh Trieu |
| **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’s signature** | Tin |

**Grading grid**

|  |  |  |  |  |  |  |  |  |  |
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| P1 | P2 | P3 | P4 | P5 | M1 | M2 | M3 | D1 | D2 |
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| **❒ Summative Feedback: ❒ Resubmission Feedback:** | | |
| **Grade:** | **Assessor Signature:** | **Date:** |
| **Internal Verifier’s Comments:** | | |
| **Signature & Date:** | | |

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1. **INTRODUCTION**
2. **CONTENT**

## **LO1** **Examine appropriate research methodologies and approaches as part of the research process**

1. **(P1)** **Produce a research proposal that clearly defines a research question or hypothesis supported by a literature review.**

#### **1.1. Research Topic**

#### **1.2. Project Type**

#### **1.3. Abstracts**

#### **1.4. Situation**

#### **1.5. Define the main aims and objectives of the project:**

* + 1. **Aims**
    2. **Objectives**

#### **1.6. Project Plan**

1. **(P2)** **Examine appropriate research methods and approaches to primary and secondary research.**

### **2. Research Methods**

#### **2.1. Primary Research**

##### **2.1.1. Types of Primary Research**

##### **2.1.2. Advantages of Primary Research**

##### **2.1.2. Disadvantages of Primary Research**

#### **2.2. Secondary Research**

##### **2.2.1. Here are the steps involved in conducting Secondary Research**

##### **2.2.2. Advantages of Secondary Research**

##### **2.2.3. Disadvantages of Secondary Research**

#### **2.3. Compare Primary Research With Secondary Research**

#### **2.4. Qualitative Research**

##### **2.4.1. Qualitative Research methods**

##### **2.4.2. Qualitative data analysis**

##### **2.4.3. Advantages of Qualitative Research**

##### **2.4.4. Disadvantages of Qualitative Research**

#### **2.5. Quantitative Research**

##### **2.5.1. Quantitative Research methods**

##### **2.5.2. Quantitative data analysis**

##### **2.5.3. Advantages of Quantitative Research**

##### **2.5.4. Disadvantages of Quantitative Research**

#### **2.6. Compare Qualitative With Quantitative**

#### **2.7. Scientific method**

##### **2.7.1. The scientific method in technology and computers**

##### **2.7.2. Steps of the scientific method**

#### **2.8. Research process**

##### **2.8.1. Step**

#### **2.9. Population in Research**

##### **2.9.1. Collecting data from a population**

1. **(M1**) **Evaluate different research approaches and methodology and make justifications for the choice of methods selected based on philosophical/theoretical frameworks.**

## **LO2 Conduct and analyse research relevant for a computing research project**

1. **(P3)** **Conduct primary and secondary research using appropriate methods for a computing research project that consider costs, access and ethical issues.**
2. **(P4)** **Apply appropriate analytical tools, analyse research findings and data.**
3. **(M2)** **Discuss merits, limitations and pitfalls of approaches to data collection and analysis.**

## **LO3 Communicate the outcomes of a research project to identified stakeholders**

1. **(P5) Communicate research outcomes in an appropriate manner for the intended audience.**
2. **(M3)** **Coherently and logically communicate outcomes to the intended audience demonstrating how outcomes meet set research objectives.**
3. **CONCLUSION**
4. **REFERENCES**