|  |  |  |
| --- | --- | --- |
| Logo Here | **My School**  Cambridge TEC (Certificate/Diploma) in IT  **Unit 17 - The Internet of Everything** | Student Name:­­­­ **Grade Awarded by:**  **Date Awarded: \_\_\_\_\_\_\_\_\_\_** Grade: PASS/MERIT/DISTINCTION |

##### Unit XX - Assignment Checklist - DD-MM-2014

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TASKS & LEVEL** | **ACTIVITIES** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **STUDENT** | **STAFF** |
| **LO1 - Understand what is meant by the Internet of Everything (IoE)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1.1 – Task 01 | Define the Internet and the Web, showing explained diagrammatic examples of how they work. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| P1.2 - Task 02 | Describe using examples of how the Internet means different things to different people. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Physical objects | | | | | | Experiential interactions | | | | | | | | | | | Aids to people | | | | | | | Aids to society/community | | | | | | | | | | | | Machines | | | | | |
| P1.3 - Task 03 | Using one example from each heading, describe how the IOE is used in business and society. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Sensors & Connectivity | | | | | | Home appliances | | | | | | | | | | | | Community | | | | | | | | | Business | | | | | | | | | The Environment | | | | | |
| P1.4 - Task 04 | Using the headings describe what it means to be IOT connected | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Positive and Negative Impact | | | | | | Cost Savings | | | | | | | | | | | | Increased productivity | | | | | | | | | New sources of revenue | | | | | | | | | Enhanced citizen experiences | | | | | |
| P2.1 - Task 05 | Describe how taking people into consideration on the 4 Pillars can affect the current and future development of the IoE, how the evolution of technology in these has changed and give an explanation of how these innovations can transform businesses. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Students | Members of society | | | | | | | | | Connecting people in relevant ways | | | | | | | | | Devices | | | | | | | Social Networks | | | | | Wearables | | | | | | | | | Health | |
| D1.1 - Task 06 | Describe the positive impacts and the potential negative impacts of IoE innovations on customers and staff of your selected business. These should be evaluated, using examples to illustrate the points being made. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Students | Members of society | | | | | | | | | Connecting people in relevant ways | | | | | | | | | Devices | | | | | | | Social Networks | | | | | Wearables | | | | | | | | | Health | |
| M1.1 - Task 07 | Analyse, in terms of People, the positive impacts on how the different speeds of advancement for individuals, within society and on the environment can have a more global impact. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Students | | Members of society | | | | | | | | | Connecting people in relevant ways | | | | | | | | | Devices | | | | | Social Networks | | | | | | | Wearables | | | | | | | | | Health |
| D1.2 – Task 08 | Describe the positive and negative impacts of the innovations to your selected business. These should be evaluated, using examples to illustrate the points being made. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Students | | Members of society | | | | | | | | | Connecting people in relevant ways | | | | | | | | | Devices | | | | | Social Networks | | | | | | | Wearables | | | | | | | | | Health |
| P2.4 - Task 09 | Using 3 examples from device, one business, one personal, one environmental, describe how data taken from the device can be turned into usable information, how the evolution of technology in these has changed and give an explanation of how these innovations can transform businesses.. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| P2.5 - Task 10 | Describe the 5 stages of Data construction using the same 3 examples from Task 08. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| M1.2 – Task 11 | Analyse the global impacts that the IoE has on individuals, society and the environment when it comes to the use of manipulation and sharing of global data. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| P2.6 – Task 12 | Using your previous examples, describe how Things in the 4 pillars of IoE have an influence on the data created, analysed and transmitted and how they have impacted on businesses. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| M1.3 – Task 13 | Analyse the global impacts that the IoE has on individuals, society and the environment in terms of advancing connective technological innovations when it comes to the use of manipulation and sharing of global data. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| D1.3 – Task 14 | Describe the positive and negative impacts of the incorporating devices such as Smart Vehicles, Phones and Computer Equipment into your selected business. These should be evaluated, using examples to illustrate the points being made. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| M1.4 – Task 15 | Analyse how increased connectivity, the IoE, and digital globalization will have an impact on individuals, society and the environment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| P2.7 - Task 16 | Using your previous examples, describe how the Process in the 4 pillars of IoE have an influence on the data created, analysed, transmitted and used and how they have impacted on businesses.. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| P2.8 - Task 17 | Using your previous examples, describe how the Processing storage and location are important in the 4 pillars of IoE and how storage processing and location has an influence on the data created, analysed, transmitted and used and how they have impacted on businesses. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| P2.9 - Task 18 | Using your previous examples, describe how the method of connectivity are important in the 4 pillars of IoE and how this connectivity method limits the amount or manner of information stored or collected and how they have impacted on businesses. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| M1.4 – Task 19 | Analyse the global impacts that the IoE has on individuals, society and the environment in terms of advancing connective technological innovations when it comes to the use of manipulation and sharing of global data. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| D1.4 – Task 20 | Describe the positive and negative impacts of enforcing modern transfer of information methods to replace manual methods of information gathering. These should be evaluated, using examples to illustrate the points being made. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| P2.10 - Task 21 | Using your previous examples, describe how the different choices of networked connection methods can limits the amount or manner of information stored or collected or used and how they have impacted on businesses. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Manageable | | | | | | | Intelligent | | | | | | | | | Secure | | | | | | | | | | | | | Scalability | | | | | | | | | Congestion | | | |
| D1.5 – Task 22 | Describe the positive and negative impacts of securing a network information system for your business in terms of education, training, cost, scalability, relieving congestion and incorporating an intelligent system. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Manageable | | | | | | | Intelligent | | | | | | | | | Secure | | | | | | | | | | | | | Scalability | | | | | | | | | Congestion | | | |
| P2.11 - Task 23 | Using your previous examples, describe how the different information security and data protection can have an impact on the type of raw data gathered and the measures needed to secure that data and how they have impacted on businesses. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Ownership of personal information | | | | Unauthorised access and misuse of personal information | | | | | | | | | | Facilitating attacks on other systems | | | | | | | | Facilitating attacks on other systems | | | | | | | | | | | More challenging to secure than a home network | | | | | | | | |
| D1.6 – Task 24 | Describe the positive and negative impacts of a data protection breach for your business in terms of reputation, enforced upgrade, securing customer care and rebuilding customer confidence in the company. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Ownership of personal information | | | | Unauthorised access and misuse of personal information | | | | | | | | | | Facilitating attacks on other systems | | | | | | | | | Facilitating attacks on other systems | | | | | | | | | | More challenging to secure than a home network | | | | | | | | |
| M1.6 - Task 25 | Using newspaper examples, describe how the different information security and data protection can have an impact globally on the type of raw data gathered and the measures needed to secure that data and how they have impacted on global businesses. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| **LO2 - Be able to repurpose technologies to extend the scope of the IoE** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P3.1 – Task 01 | Outline potential development related to Body and Health that could extend the scope of the IoE, outlining the current application and identifying how it could be developed in a different context. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Sensors, e.g. wearable thermometer | | | | | | | | Social safety wearables | | | | | | Wi-Fi mattress cover | | | | | | | | | | | | | | Bluetooth stethoscope | | | | | | | | | | | Biometric patch | | |
| Running analytics | | | | | | | | Bluetooth weather sensor | | | | | | Bluetooth maps for visually impaired | | | | | | | | | | | | | | | | | | | | | | | | | Bluetooth sunglasses | | |
| P3.2 – Task 02 | Outline potential development related to Home and Garden that could extend the scope of the IoE, outlining the current application and identifying how it could be developed in a different context. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Smart locks | | | Bluetooth flower pots | | | | | | | | | Global location devices | | | | | | | | | Bluetooth measurement jars | | | | | | | | | Smart Lights | | | | | | | Wireless water shutoff | | | | |
| Smart Air Conditioner | | | Bluetooth tape measure | | | | | | | | | Solar powered window blinds | | | | | | | | | Wi-Fi gas and carbon monoxide detectors | | | | | | | | | Smart battery | | | | | | | Wi-Fi shopping lists | | | | |
| P3.3 – Task 03 | Outline potential development related to City and Neighbourhood that could extend the scope of the IoE, outlining the current application and identifying how it could be developed in a different context. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| Real-time air traffic | | | | | Bicycle Barometer | | | | | | | | | | Taxi locator | | | | | | | Smart urban furniture | | | | | | | | | | | | | Connected car safety devices | | | | | | |
| Smart Signage | | | | | City dashboard | | | | | | | | | | Intelligent Street Lights | | | | | | | Surveillance systems | | | | | | | | | | | | | Wearable air quality sensor | | | | | | |
| P3.4 – Task 04 | Outline potential development related to Industry that could extend the scope of the IoE, outlining the current application and identifying how it could be developed in a different context. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| smart paving capturing kinetic energy | | | | | | | | | wireless pest monitoring | | | | | | wireless calving alert sensors | | | | | | | smart glasses for warehouses | | | | | | | | | | | | | workforce driving monitors | | | | | | |
| industrial smart helmet | | | | | | | | | smart noise sensors | | | | | | smart bottle labels | | | | | | | intelligent packaging | | | | | | | | | | | | | smart luggage/cargo | | | | | | |
| **real-time remote excavation** | | | | | | | | | | | | | | | connected e-paper displays | | | | | | | | | | | | | Wi-Fi cold storage monitoring | | | | | | | | | | | | | |
| P3.5 – Task 05 | Outline potential development related to the Environment that could extend the scope of the IoE, outlining the current application and identifying how it could be developed in a different context. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| environmental monitoring | | | | | wildlife tracking | | | | | | | | flood detection network | | | | | | | | | illegal deforestation monitoring | | | | | | | | | | | | landslide detection systems | | | | | | | |
| M2.1 - Task 06 | Carry out a feasibility study from the template provided, detailing the purpose and need for one of the development products. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| **LO3 - Be able to present concept ideas for repurposed developments** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P4.1 – Task 01 | Create a Business proposal for the chosen development project covering the stages of the teaching content. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| D2.1 – Task 02 | Propose within the presentation, a range of product success criteria based on viability and effectiveness. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| P5.1 – Task 03 | Create a feedback document that will allow you to gain feedback from the business representatives. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| P5.2 - Task 04 | Pitch your proposal to an interested target group, and gain constructive product and verbal and written pitch feedback from each member of the group. Have this videoed by your tutor and a witness statement filled in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| M3.1 – Task 05 | Using the feedback, create a report which explain the comments made, stating whether you agree with the comments, and how each comment made could benefit the product and pitch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| M3.2 – Task 06 | Based on the assessed written and verbal peer feedback, revise the business proposal reflecting the stakeholder feedback. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| M3.3 – Task 07 | Based on Task 04 - Part 6 of the Proposal, be specific about whether the stakeholders agreed on your assessment of the Stakeholder considerations, comment on the specific comments on these. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| D2.2 – Task 08 | Evaluate the Success Criteria, confirming the sustainability of the development project, demonstrating with a good indication on how to be able to measure the project’s success. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| D2.3 – Task 09 | Evaluate how the measurable Success Criteria of the development project, can determine the success of the venture. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |