WEEK 2 SELF STUDY ON computer support maintenance CIT620

YEAR1 SEMENTER2

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1. **Scenario Analysis (150 words IT Research )**

In an advanced IT research project, a postgraduate student must write a scholarly paper on mitigating phishing attacks in corporate networks. The assignment requires analysing resent phishing trends, evaluating existing countermeasures, and proposing a multi-layered defense framework. The student needs to conduct a thorough literature review. Synthesize empirical data, and provide evidence data, and provide evidence-based recommendations for industry practitioners. Academic conventions such as a formal tone, structured sections (introduction, methodology, findings, discussion, and conclusion), precise IEEE citations and a clear thesis are mandatory. The challenge is maintaining coherence, clarity, and conciseness while integrating complex technical concepts to meet conference – ready standards.

1. **Principle Research ( 100- word summary of “clarity”)**

Clarity in academic writing means communicating complex ideas unambiguously so readers understand technical concepts, methodologies, and findings without confusion. It involves using precise language, defining jargon and structuring sentences logically. For IT research, and clarity ensures that explanations of protocols or algorithms are straightforward, enabling practitioners to apply them effectively. Techniques include avoiding vague terms, employing active voice, and providing concrete examples. A clear paper on network security outlines steps and benefits explicitly, enhancing readability and implementation.

1. **Tool Practice ( 100 words reflection on Zotero)**

I used Zotero to manage references for an IT Security report, I imported IEEE articles via the browser extension, organized them into folders, and generated IEEE- style citations automatically manual formatting errs and streamlined collaborative bibliography sharing. I also edited citation fields for accuracy, ensuring compliance with academic standard. The experience highlighted Zotero’s efficiency in handling large reference lists for technical papers, improving my overall workflow and citation management.

1. **Writing Diagram ( 100words explanation of a Canva process diagram)**

The Canva diagram illustrates the five – stage writing process: Plan (outline objectives &structure), **Research** (gather& annotate sources), **Draft** (write initial manuscript), **Revise** (refine arguments & clarity), Proofread (check grammar, citations, formatting). Arrows show iterative feedback loops, indicating that writing is non-linear and requires repeated refinement. This process ensures technical accuracy, coherence, polished, evidence, and polished, evidence – based documents suitable for scholarly IT publications.

1. **Hardware diagram ( 100 words explanation of a motherboard diagram in Canva**)

The Canva diagram depicts a motherboard layout showing key components: CPU Socket, RAM Slots, PCle slots, Storage connectors (SATA, M.2), and the chipset. Lines illustrate electrical pathways linking the CPU to RAM, GPU, and storage devices, highlighting data flow and power distribution. The diagram explains how components interact to enable system operations, emphasizing the motherboard’s role as the central communication hub. Understanding this layout aids in troubleshooting hardware issues like connectivity or upgrade planning (e.g., adding RAM or SSD).