Module: Research Methods and Professional Practice

Objectives:

Assess the professional, legal, social, cultural, and ethical issues that impact individuals working in the field of computing.

Capable to investigate any research topic, review the pros, cons and gap in the existing research, critique research and data collection methods with systematic literature review

Perform qualitative and quantitative statistical data analysis for any given data

Generate a research proposal relevant to the chosen research area, emphasising its critical components and research strategy.

	Helpful to achieving the objective	Hamper achieving the objective
Internal origin (attributes of the system)	Strengths 1. My prior exposure to research methodology and data analysis greatly facilitated my comprehension of this module. 2. Being a healthcare scientist, I possess a deep understanding of the ethical considerations associated with research involving human participants. 3. I maintained a high level of self-driven enthusiasm and dedicated substantial effort to excel in this module.	Weaknesses/Areas for further development 1. Every unit and task demanded a greater time commitment for me to accomplish satisfactorily. Juggling work, studies, and family responsibilities as a working mother of two young children proved to be a challenging balancing act. 2. The scheduling of the seminars didn't align well with my availability, and the absence of real-time interaction with the tutor and fellow students was a drawback. 3. On certain days, I may experience a lack of energy, which can sometimes impede my progress in meeting my objectives..

External origin (attributes of the environment)	Opportunities	Threats
	1. The course materials and library resources were instrumental in attaining the module's objectives. 2. Interactive collaborative discussions among peers offered avenues for mutual learning and the exchange of varied viewpoints. 3. Guidance and input from the tutor were invaluable in the process of assessing and enhancing areas requiring additional attention.	1. The summative activities were very time-intensive and very limited time available around units 8, 9 and 10 to complete along with mandatory formative activities. The data analysis would be better if done in earlier units in the module 2. While the module provided a solid foundation, it did not cover advanced statistical or data analysis techniques in-depth such as Bayesian analysis and big data analytics 3. The essential reading list for each unit's content placed time limitations to delve deeply into specific areas, such as risk management and data analysis.