"Evaluating the Impact of Modern Educational Technologies on Student Learning Experiences in Higher Education in Qatar"

1. Which of the methods described in this week's reading would suit your purpose?

The most suitable approach for my research project is a mixed methods approach, as it enables a balanced investigation of both numerical impact and personal experiences.

The quantitative method will help assess measurable trends such as levels of student engagement or satisfaction using statistical tools.

The qualitative method is critical to understand deeper insights, such as faculty and student perceptions, challenges, and contextual concerns specific to Qatar.

In my outline, I referenced a thematic and critical analysis approach, which aligns well with qualitative methods, while also recognizing the value of structured survey data typical of quantitative research.

2. Which data collection methods would you consider using?

Given the mixed-methods design, I plan to use a combination of the following data collection methods:

Questionnaires: To collect large-scale data on students' usage of and attitudes toward modern educational technologies (e.g., LMS, AI-powered tools, flipped classrooms).

Semi-structured Interviews: With faculty members and students to explore experiences, challenges, and institutional practices related to tech adoption.

Document Analysis: Including institutional reports or national strategy documents (e.g., Qatar National Vision 2030), and case studies from local universities such as QU, HBKU, and NU-Q.

This combination ensures a comprehensive view from both macro (policy/institutional) and micro (student/faculty) perspectives.

3. Which required skills will you need to have or develop for the chosen project?

To effectively conduct this project, I will need the following skills:

Quantitative analysis skills: Using tools like Excel or SPSS to perform descriptive and inferential statistical analysis.

Qualitative analysis skills: Conducting and coding interviews thematically, ensuring clarity and consistency in interpretation.

Familiarity with theoretical models: Specifically the Technology Acceptance Model (TAM) and TPACK framework, to interpret how users adopt or struggle with technology in educational contexts.

Data visualization: Skills in creating accessible and impactful visuals using tools such as Power BI or Canva to present findings.

Academic writing and synthesis: To clearly articulate findings, integrate scholarly sources, and prepare a coherent final report and proposal.