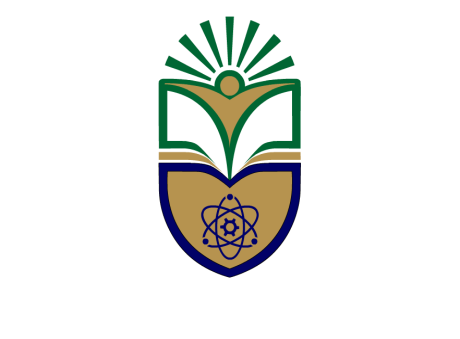
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**THE TECHNICAL UNIVERSITY OF KENYA**

**FACULTY OF SOCIAL AND TECHNOLOGY STUDIES**

**SCHOOL OF INFORMATION AND COMMUNICATION STUDIES**

**DEPARTMENT OF INFORMATION AND KNOWLEDGE MANAGEMENT**

**AIIQ3123:**

**HUMAN COMPUTER INTERACTION**

**ODAO MOUREEN NABWIRE**

**AIIM/00768/2022**

**1. Describe any FIVE advantages of Graphical User Interface GUI over other forms of HCI.**

Ease of use: Graphical user interface are easy to learn and navigate by beginners. They are visually oriented and consistent.

Multitasking: They enable multitasking by allowing users to open and navigate through multiple windows or applications at the same time.

Accessibility: Contains special features like screen readers, magnifiers, and voice commands can make them accessible to users with different abilities.

**User-Friendliness**: Graphical User Interfaces are intuitive and contains a lot of visual that makes them easy for users, regardless of their technical expertise, to interact with software applications.

**Consistency**: Graphical user interface offers a consistent look and feel across different applications, creating a unified experience that improves user satisfaction.

**2.Describe any TWO emerging HCI styles.** **(6 marks)**

**Artificial Intelligence (AI). integration** of AL into HCI to create adaptive and personalized user experiences. These technologies can learn from user behavior and preferences to provide more relevant and efficient interactions

**Augmented Reality (AR) and Virtual Reality (VR)**: AR and VR are creating immersive experiences by blending digital content with the real world or creating entirely virtual environments. These technologies are being used in gaming and education

**3.Explain any FOUR Rules of user interface design. (4 marks)**

Consistency when deigning one should ensure that your design is consistent across different sections of the application.

**Feedback** it is important for a designer to provide feedback to users about their actions to confirm their successful completion or correct errors

**Accessibility** one needs to **e**nsure the design is easily and readily accessible to all users, including those with disabilities.

Documentation is important as it provides easily accessible help and documentation to assist users in understanding and navigating the interface

**4.Explain how you can achieve ‘usability’ in HCI design for any FIVE categories of users. (10 marks)**

For beginners provide feedback to help them understand the consequences of their interactions.

**For the elderly provide readability** features like using large fonts and high-contrast color schemes to enhance readability

For people with disabilities improve usability by adding a**ccessibility features** like Implementing screen readers, voice controls, and keyboard navigation to accommodate various disabilities.

For children incorporate **interactive elements** like games or quizzes to make learning fun and visual appeal like colors, engaging graphics and animations to capture interest

Let advanced users customize their workspace to suit their preferences and workflows.