Unit 3 - Week 1 | Design and Innovation

Assignment 1

1. What is the significance of design in the context of innovation?
2. Discuss the role of user experience in product design.
3. Explain the concept of user-centered design.
4. Analyze the importance of prototyping in the design process.
5. Identify the benefits of involving stakeholders in the design phase.
6. What role does technology play in modern design practices?
7. Evaluate the impact of sustainability on design innovations.
8. Discuss the principles of minimalism in product design.
9. Explore the influence of cultural factors on design trends.
10. How can design thinking be applied to solve real-world problems?

11. What are the key components of an effective design brief?
12. Identify the stages of the design process and their respective challenges.
13. Discuss the ethical considerations in design.
14. How do different design disciplines collaborate to create a holistic product?
15. Explain the concept of design for disassembly.
16. Analyze the role of product lifecycle management in sustainable design.
17. How do designers incorporate user feedback into their design iterations?
18. Evaluate the impact of emerging technologies on design innovation.
19. Discuss the importance of emotional appeal in design.
20. How do designers balance aesthetic appeal with functional requirements?