



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE

2021_2 EXAMINATIONS

COURSE CODE : CIT 811
COURSE TITLE : USER INTERFACE DESIGN AND ERGONOMICS
CREDIT UNIT : 3
TIME ALLOWED : 2 ½ HOURS
INSTRUCTION : ANSWER QUESTIONS 1(ONE) AND ANY OTHER FOUR (4)

- 1a) Give two (2) references to the term “User Interface” *(2 marks)*
b) Using the automobile as an example, explain the significance of the User Interface. *(4 marks)*
c) Explain the statement “designing a good user interface is an iterative process” *(4 marks)*
d) Give two definitions of the graphical user interface *(4 marks)*
e) Briefly explain four (4) kinds of windows in the structural element section of GUI *(4 marks)*
f) Differentiate between the jobs of a professional practitioner and a researcher in HCI *(4 marks)*

- 2 a) What is a mode in User Interface? *(2 marks)*
b) Give a suitable explanation of any three (3) fields in ergonomics *(6 marks)*
c) What does the term “Understanding users” refer to? *(2 marks)*
d) Explain the reduced clutter principle *(2 marks)*

- 3a) Explain the kind of training involved in software design? *(4 marks)*
b) What is the relationship between ergonomics and efficiency? *(2 marks)*
c) Justify the purpose of User Centered Design? *(6 marks)*

4. a) Differentiate between structural elements and interactive elements as understood in GUI *(4 marks)*
b) In a sequential order, extrapolate the steps involved in interaction design? *(6 marks)*
c) Explain the concept of heuristic evaluation *(2 marks)*

5. a) How does HCI draw supporting knowledge from both humans and computer systems? *(4 marks)*
b) Justify how double buffering addresses the flickering problem? *(5 marks)*
c) What is participatory design? *(3 marks)*

- 6a) What is the goal of User Interface Design? (*2 marks*)
- b) Explain Ergonomics with regards to the design of products and services (*4 marks*)
- c) Interpret any three usability evaluation methods (*6 marks*)

