



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI-ABUJA
FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
SEPTEMBER, 2020_1 EXAMINATIONS

COURSE CODE: CIT 811

COURSE TITLE: USER INTERFACE DESIGN AND ERGONOMICS

CREDIT: 3 UNITS

TIME ALLOWED: 2 ½ HOURS

INSTRUCTIONS: ANSWER QUESTION ONE(1) AND ANY FOUR(4) OTHERS

1(a) Describe the ways ergonomics is used to achieve efficiency in interface design **(3 marks)**

1(b) Differentiate between Usability Testing and Usability Engineering **(4 marks)**

1(c) Mention six types of user interfaces **(3 marks)**

1(d) Explain the objectives of HCI **(4 marks)**

1(e) What does Interaction Style mean? **(2 marks)**

1(f) Enumerate the structural and interactive objects in a user interface design **(4 marks)**

1(g) Most theories explain emotional response to affective UI design. Give examples of the theories **(2 marks)**

2(a) Describe five types of user interfaces. **(10 marks)**

2(b) Explain what you understand by Interaction Design **(2 marks)**

3(a) Briefly describe the main constituents of a loop of interaction? **(8 marks)**

3(b) Write short note on user centered design **(4 marks)**

4(a) What is user interface design? **(4marks)**

4(b) Describe any three aspects of ergonomics **(6 marks)**

4(c) What is Ergonomics **(2 marks)**

5(a) Briefly explain three essentials of interface design **(6 marks)**

5(b) Give three study fields of application of ergonomics. **(3 marks)**

5(c) Differentiate between Structural and Interaction elements in GUI design **(2 marks)**

6(a) Highlight seven components for good user interface design. **(7 marks)**

6(b) Categorically describe the two main aspects of interaction design **(5 marks)**