



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**)