



NATIONAL OPEN UNIVERSITY OF NIGERIA  
University Village, Plot 91, Cadastral Zone,  
Nnamdi Azikiwe Expressway, Jabi, Abuja

FACULTY OF SCIENCES  
2023\_1 EXAMINATIONS.

**Course Code:** CIT432  
**Course Title:** Software Engineering – II  
**Credit :** 3 Unit  
**Time Allowed:** 3 Hours  
**Instruction:** Answer Question 1 (25 marks) and any other three questions (15 marks each)

1(a) Describe the term “Software Engineering” and explain the concept of Software Engineering Methodology **(9 marks)**

1b) With the aid of a diagram describe the waterfall model **(8 marks)**

1c) List and explain four (4) attributes of a good software. **(8 marks)**

2(a) Explain the term “Software” **(2 marks)**

2(b) Explain briefly the term “Requirement” **(4 marks)**

2(c) List and explain three (3) Issues of Professional Responsibility **(9 marks)**

3(a) State seven prototyping steps **(7 marks)**

3(b) List four (4) requirements checking in software development **(4 marks)**

3(c) State four benefits of software Re-use **(4 marks)**

4(a) Distinguish Between the following: **(6 marks)**

(i) Verification and Validation Process

(ii) Testing and Debugging

(iii) Inspections and Testing

**(2 marks each)**

4(b) Define the term “Feasibility Study” **(4 marks)**

4(c) List five advantages of Spiral model **(5 marks)**

5(a) List four advantages of Incremental Development **(4 marks)**

5(b) State two (2) advantages and two (2) disadvantages of a prototype. **(6 marks)**

5(c) Describe the concept of software design and its stages **(5 marks)**

6(a) What is Electronic Spreadsheet Applications **(6 marks)**

6(b) Define the CASE tools **(3 marks)**

6(c) List and explain three types of Requirement **(6 marks)**