



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_2 EXAMINATIONS

Course Code: CIT432

Course Title: Software Engineering II

Time: 2½ Hours

Credit: 3Units

Instruction: Attempt 4 questions. Question1 is Compulsory and any other three (3) Questions

- 1a. Discuss two advantages and two disadvantages of the interview method of data (5marks)
- 1b. List and explain some of the key areas where software is increasingly playing a pivotal role. (5marks)
- 1c. Define computer software and explain its role in a computer system. (5 marks)
- 1d. What is software engineering and why is it important? (10 marks)

- 2a. Explain the key features and advancements of third-generation languages (3GL) compared to earlier generations. (5marks)
- 2b. Describe the fifth generation of languages (5GL) and their applications in artificial intelligence. (10 marks)

- 3a. What is firmware and how is it different from software stored in random access memory (RAM)? (5marks)
- 3b. Explain the purpose of system software and list its main components. (10marks)

- 4a. What are the differences between application software and system software? Provide examples of each. (5marks)
- 4b. Describe the Waterfall model and its phases. (10 marks)

- 5a. List and explain any three strengths of the Waterfall Model. (6marks)
- 5b. List and explain the steps involved in the Prototyping Model. (9marks)

- 6a. Explain the Waterfall Model of software development. (5marks)
- 6b. List and briefly describe any five software development models other than the Waterfall model. (10 marks)