

نيجيرياجامعةالحكمة،إلورن،

AL-HIKMAH UNIVERSITY, ILORIN, NIGERIA

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....a tradition of learning for wisdom and morality

FACULTY OF NATURAL AND APPLIED SIENCES DEPARTMENT OF COMPUTER SCIENCE

BSc Computer Science 2023/2024 Session COURSE OUTLINE

COURSE CODE: CMP403

COURSE TITLE: Software Engineering

CREDIT UNITS: 4

LECTURE DAY(S): Thursdays; 2pm - 4pm, Fridays; 9am - 10am

LECTURE	TOPIC	COURSE
PERIOD		LECTURER(S)
Week 1	Introduction to Software Engineering	R.D. AZEEZ
	✓ Definitions of Software, Engineering	
	✓ IEEE definition	
	✓ Software Ethics	
Week 2	Historical perspective and Evolution	R.D. AZEEZ
	✓ Software engineering principles	
	✓ Software Crisis	
	➤ Code-and-Fix	
	✓ The Need for Software Engineering	
	✓ Importance of software engineering	
Week 3	Characteristics of a Good software	R.D. AZEEZ
	✓ Operational	
	✓ Transitional	
	✓ Maintainable	
Week 4	Software Engineering Vs Computer Science	R.D. AZEEZ
	Software engineering types	
	✓ Heterogeneity	
	✓ Business and Social change	
	✓ Security and Trust	
	✓ Scale	
	Types of Application and Software products	
	✓ Generic	
	✓ Customized	
Week 5	Types of Systems	R.D. AZEEZ
	✓ Embedded	
	✓ Support Environment	
	✓ Information System	
	✓ Sensor-based Data Collection System	

	Software Development Cycle an introduction	
Week 6	Overview of Waterfall model/method Types ✓ Classical/Traditional ✓ Iterative	R.D. AZEEZ
Week 7	Continuous Assessment	
Week 8	Software Requirement Specification ✓ Gathering and analyzing software requirements ✓ Use case modelling and requirement validation Software Design	R.D. AZEEZ
Week 9	Software Design ✓ Understanding the SRS for design ✓ User-Friendly Interface ✓ Software –User Interaction ✓ Learning Experience Enhancement Structural and Behavioral Design	R.D. AZEEZ
Week 10	Coding, Testing and Maintenance Project Management	R.D. AZEEZ
Week 11	Continuous Assessment	
Week 12	Revision	
Week 13	Revision	
Week 14	Examination Period	
Week 15	Examination Period	