



AL-HIKMAH UNIVERSITY, ILORIN
FACULTY OF NATURAL & APPLIED SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
Bsc. COMPUTER SCIENCE
2019/2020 ACADEMIC SESSION

COURSE OUTLINE FOR: OBJECT ORIENTED PROGRAMMING

COURSE CODE: CMP302

COURSE TITLE: OBJECT ORIENTED PROGRAMMING

LECTURE HOURS: MONDAYS 10am-1pm

3 CREDIT UNITS

STUDENTS SHOULD NOTE THAT EACH LECTURE PERIOD SHALL FEATURE A 10-15 MINUTES OF PRE-LECTURE OR POST-LECTURE CAT (Continuous Assessment Test)

LECTURE PERIOD	DATE	TOPIC	COURSE LECTURE
1	Feb. 24, 2020	BASIC CONCEPTS OF OBJECT-ORIENTED PROGRAMMING (OOP) i) Definition ii) Why OOP? iii) Benefits of OOP	Salau-Ibrahim T.T.
2	Mar. 2, 2020	BASIC CONCEPTS OF OBJECT-ORIENTED PROGRAMMING (OOP) i) OOP Principles -Inheritance -Abstraction -Polymorphism -Encapsulation ii) Benefits of OOP principles	Salau-Ibrahim T.T.
3	Mar. 9, 2020	INTRODUCTION TO CLASSES AND OBJECTS i) Definition of class and Object ii) Characteristics iii) Types of classes iv) Basic Structure of OO class v) Class Members (variables and methods)	Salau-Ibrahim T.T.

		vi) Class Members declaration Syntax vii) Variable declaration syntax	
4	Mar. 16, 2020	TYPES OF METHODS i) Accessors (getters) ii) Mutators (setters) iii) Service methods iv) constructors TYPES OF VARIABLES i) Local Variable ii) Instance Variable iii) Static variables	Salau-Ibrahim T.T.
	Mar. 23, 2020	CONSTRUCTORS AND DESTRUCTORS i) Definition ii) Types iii) Constructors versus methods	
5	Mar. 30, 2020	FIRST CAT	
6	Apr. 6, 2020	OBJECT INSTANTIATION i) How to instantiate object in OOP ii) Creating executable class	Salau-Ibrahim T.T.
7	Apr. 13, 2020	POLYMORPHISM AND ABSTRACTION i) Types of polymorphism ii) Abstract classes versus concrete classes iii) Examples	Salau-Ibrahim T.T.
8	Apr. 20, 2020	POLYMORPHISM AND ABSTRACTION iv) Abstract methods v) Interfaces vi) Examples	Salau-Ibrahim T.T.
9	Apr. 27, 2020	INHERITANCE AND COMPOSITION vii) Superclass and subclass viii) Protected members ix) Examples	Salau-Ibrahim T.T.
10	May. 4, 2020	INHERITANCE AND COMPOSITION i) Composition ii) Examples	Salau-Ibrahim T.T.
11	May. 11, 2020	SECOND CAT	Salau-Ibrahim T.T.
12	May. 18, 2020	REVISION	Salau-Ibrahim T.T.