



**AL-HIKMAH UNIVERSITY, ILORIN**  
**FACULTY OF NATURAL & APPLIED SCIENCES**  
**DEPARTMENT OF COMPUTER SCIENCE**

**Bsc. COMPUTER SCIENCE**

**2019/2020 ACADEMIC SESSION**

**COURSE OUTLINE FOR: SURVEY OF PROGRAMMING LANGUAGES**

**COURSE CODE: CMP332**

**COURSE TITLE: SURVEY OF PROGRAMMING LANGUAGES**

**LECTURE HOURS: MONDAYS 2pm-4pm, TUESDAY 11am-1pm**

**4CREDIT UNITS**

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

<b>LECTURE PERIOD</b>	<b>DATE</b>	<b>TOPIC</b>	<b>COURSE LECTURE</b>
1	Feb. 24, 2020	INTRODUCTION i) Why study programming languages? ii) History of programming languages	Salau-Ibrahim T.T.
2	Feb. 25, 2020	INTRODUCTION iii) Roles of programming Languages	Salau-Ibrahim T.T.
3	Mar. 2, 2020	INTRODUCTION iv) Attributes of a good programming language	Salau-Ibrahim T.T.
4	Mar. 3, 2020	TAXONOMY OF PROGRAMMING LANGUAGES i) Low level language ii) Middle level language iii) High level language	Salau-Ibrahim T.T.
5	Mar. 9, 2020	TAXONOMY OF PROGRAMMING LANGUAGES iv) Very high level language v) Higher level language	Salau-Ibrahim T.T.
6	Mar. 10, 2020	PROGRAMMING LANGUAGE BASIC CONCEPTS (Case study JAVA language) i) Values and types ii) Variables and storage iii) Bindings and scope iv) Procedural Abstractions	Salau-Ibrahim T.T.

		(procedures and parameters)	
7	Mar. 16, 2020	LANGUAGE DESCRIPTION i) Level of description -Grammar and syntax -Semantics -Pragmatics	Salau-Ibrahim T.T.
8	Mar. 17, 2020	LANGUAGE DESCRIPTION ii) Variant of grammar (Regular grammar, BNF grammar, Context-free grammar)	Salau-Ibrahim T.T.
9	Mar. 23, 2020	PROGRAMMING LANGUAGE SYNTAX i) General syntactic criteria	Salau-Ibrahim T.T.
10	Mar. 24, 2020	PROGRAMMING LANGUAGE SYNTAX ii) Syntactic Elements of a Language	Salau-Ibrahim T.T.
11	Mar. 30, 2020	STRUCTURE/ORGANISATION OF COMPILER i) Lexical analysis ii) Syntactic analysis iii) Semantic analysis iv) Generation of intermediate form	Oyelakin A.M
12	Mar. 31, 2020	STRUCTURE/ORGANISATION OF COMPILERS v) Code optimization vi) Code generation vii) Linking and loading	Oyelakin A.M
13	Apr. 6, 2020	Revision and FIRST CAT	Salau-Ibrahim T.T. and Oyelakin A.M
14	Apr. 7, 2020	LANGUAGE PARADIGM i) Imperative programming -Definition -Key concepts -Advantages -Disadvantages -Examples of programming language -Values and types	Oyelakin A.M
15	Apr. 13, 2020	LANGUAGE PARADIGM ii) Concurrent Programming -Definition -Key concepts -Advantages -Disadvantages -Examples of programming language -Values and types	Oyelakin A.M

16	Apr. 14, 2020	PROGRAMMING LANGUAGES-AN OVERVIEW <ul style="list-style-type: none"> <li>- C</li> <li>- Java</li> <li>- Python</li> <li>- VB script (as a light scripting language for building web applications)</li> </ul>	Oyelakin A.M
17	Apr. 20, 2020	BASICS OF GRAMMAR IN LANGUAGE DESIGN <ul style="list-style-type: none"> <li>i) Basic concepts in grammar</li> <li>ii) Understanding Compilation Process</li> <li>iii) Understanding effect of compilation error in programming languages</li> </ul>	Oyelakin A.M
18	Apr. 21, 2020	OPERATORS IN PROGRAMMING LANGUAGES <ul style="list-style-type: none"> <li>i) Understanding Operators in C, Java, Python and VBscript</li> <li>ii) Knowing how to use Arithmetic Operators, Logical Operators, Relational Operators e.t.c in the selected languages</li> <li>iii) Manually compute values using these operators</li> </ul>	Oyelakin A.M
19	Apr. 27, 2020	TYPE CONVERSION IN PROGRAMMING LANGUAGES Type conversion in C with examples Type Conversion in Java with examples	Oyelakin A.M
20	Apr. 28, 2020	LANGUAGE SELECTION, EVALUATION AND DESIGN <ul style="list-style-type: none"> <li>i) Criteria for selection</li> </ul>	Oyelakin A.M
21	May. 4, 2020	LANGUAGE SELECTION, EVALUATION AND DESIGN <ul style="list-style-type: none"> <li>ii) Criteria for evaluation and Language design analysis</li> </ul>	Oyelakin A.M
22	May. 5, 2020	Parameter Passing in Programming Languages	Oyelakin A.M
23	May. 11, 2020	Parameter Passing in Programming Languages with emphasis on C and Java	Salau-Ibrahim T.T and Oyelakin A.M
24	May. 18, 2020	Revision and SECOND CAT	Salau-Ibrahim T.T and Oyelakin A.M
25	May. 19, 2020	REVISION	Oyelakin A.M.

