

PROGRAMMING LABORATORY

Course code: COME2102

Credit: 02

School: NAHPI

Instructor: Engr Tangu Achilis Shey Dor

Course outline

Unit number	TOPIC
1	Overview of Programming: Definitions (programming, programming languages), Translators. Programming paradigms: Imperative Programming paradigm (Procedural Programming paradigm, Object Oriented Programming, Functional Programming paradigm), Declarative Programming paradigm Programming constructs: Sequence, Selection, Iteration
2	Algorithms and problem-solving: Introduction, steps involved in problem solving, algorithms (pseudo code and flowchart)
3	Introduction to C programming: variables, data types, control constructs, arrays, strings, and functions (including recursive functions) Program development: editing, compiling, testing, and debugging.
4	Introduction to Object oriented programming with C++