

EE114

Course Objectives

Content	Objectives
Integrated development environment	Students will be able to create, compile, debug and run computer programs using an integrated development environment (IDE) in C programming language.
Variables, constants and types	Students will understand various data types of variables and be able to define variables or constants.
Program selection	Students will be able to write C programs using different program selection statements.
Loop	Students will be able to write C programs using different loop statements, and understand structured programming.
Function	Students will understand how to construct programs modularly from small functions, and be able to create new functions.
Array	Students will understand the array data structure and basic sorting and searching techniques, and be able to define and manipulate arrays.
Character and string	Students will be able to understand and apply string and character input/output functions, and various functions handling strings and characters.
Pointer	Students will understand pointers and the relationships among pointers, arrays and strings, and be able to understand the use of pointers to functions.
Structure and union	Students will understand how to define and use structures and unions
Preprocessor	Students will be able to use C preprocessor command to create macros with or without arguments.
File processing	Students will be able to read or write files, and be familiar with sequential access file processing.