

SEMESTER <i>Fourth</i>	DEPARTMENT <i>General Engineering</i>	COURSE TITLE <i>Computer IV</i>
COURSE CODE <i>EG405</i>	HOURS 3 UNITS 3	COURSE SPECIFICATIONS <i>Theoretical Content</i>
1. Words and Sentences in C language: <ul style="list-style-type: none"> ➤ Keywords in C. ➤ Rules of forming words in C. ➤ Data variables and data types. ➤ Variables. ➤ Constants. ➤ Comments in C. 		
2. Instructions and Rules for Writing: <ul style="list-style-type: none"> ➤ Types of instructions. ➤ Data manipulation instructions. ➤ Input/ output instructions. 		
3. Flow Control Instructions: <ul style="list-style-type: none"> ➤ IF; IF-ELSE. ➤ Loop control instructions: FOR LOOP; WHILE LOOP; DO WHILE. 		
4. Functions: <ul style="list-style-type: none"> ➤ The use of function. ➤ Components of function. ➤ Variables of functions. ➤ Return values. 		
5. Arrays: <ul style="list-style-type: none"> ➤ Definition of an array. ➤ Array declaration. ➤ Array initialization. ➤ Two dimensional arrays. ➤ Rules of using an array. 		

6. Pointers:

- What is a pointer.
- Declaring a pointer variable.
- Initializing a pointer variable.
- Using a pointer variable.
- Pointers and array.

7. Strings:

- Definition of strings.
- String I/O.
- String manipulation functions.

References: