C LEARNING E CONTENT MODULE

SYLLABUS

FOR

B. SC. ELECTRONICS, S-V

PREPARED BY

BOS, GONDWANA UNIVERSITY, GADCHIROLI

Unit-I

Types of Programming languages, Characteristics of higher level language, Compiler and Interpreter, Importance of C.

Constants, Variables and data Types: Character Set, C tokens, Keywords and Identifiers, Constants, Variables, Data types, Declaration of Variables, Defining symbolic constants.

Concepts of algorithm and flowchart, problem solving examples using algorithm and flowchart.

Unit-II

Operators and Expressions:

Arithmetic, Relational, Logical, Assignment, Increment and Decrement, Conditional, Bitwise and special operators.

Arithmetic Expression, Evaluation of Expression, Precedence of Operators and Associatively, Library Functions, I/O Statements.

Unit-III

Managing Input and Output Operations: Reading a character, writing a character, formatted input, formatted output.

Decision making and branching: Decision making with IF statement, Simple if statement, the if - else statement, Nesting of if - else statements, The else - if ladder, the switch statement, the turnery (? :) Operator, the goto statement.

Unit-IV

Decision making and Looping:

The while statement, the do-while statement, the for statement, nesting in loop, Jumps in loops, break and continue.

Ref. Books:

1. ANSI C- Programming By Balagurusamy
2. Let us C By Kanetkar
3. C and C++ Kanetkar
4. Programming in "C" and "C++" by, Mahapatra
5. Programming in "C" by Rajaraman.

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