SEMESTER-II

Title of the Paper: Programming in C		
Credit: 4 **Course Outcome:**	At the end of this course, the successful students will be able to: • Use various C statements. • Know structure of C Program. • Write C Program.	**Theory**
Unit –I		
History of C, Structure of a C program, The C character set, Constants, Variables, keywords, Data types, arithmetic instructions, Integer and float conversions, Type conversion, Operators in C, Hierarchy of operators, control instructions, Input-Output statements in C (Formatted and Unformatted), Comment statements.		
Unit –II		
Decision control structures, Logical operators, conditional operator and relational operators, Loop control structures –while, do-while, for loop, Break statement, Continue statement, switch-case control structure, goto statement Bitwise operators,.		
Unit –III		
One dimensional and multidimensional array, declaration, initialization and array Manipulations, sorting (Bubble sort) Strings – Basic Concepts, Library Functions, Definition, function definition and prototyping, types of functions, type of arguments, Recursion, passing arrays to functions, storage class in C-automatic, register, external and static variables.		
Unit –IV		
Pointers Definition, notation, pointers of arrays, array of pointers and functions – call by value and Call by reference, Definition, declaration, accessing structure elements, Array of structure, Pointers and structures,		

Referenced Books:

[1] Brian W. Kernighan, Dennis M. Ritchie , "The C Programming Language", Prentice Hall software series, Second Edition.

[2] S.K. Srivastava and Deepali Srivastava, "C in Depth", BPB Publications.

[3]Suresh Prasad Kannojia, "Programming in C: Learn with Examples: A Practical Approach", LAP LAMBERT Academic Publishing.

Suggested Readings:

[1] Yashavant Kanetkar , "Let us C", BPB publication, 15th edition.

[2] Gottfried, "Programming With C",McGraw Hill.

Weblinks

[1] http://heecontent.upsdc.gov.in/

[2] https://www.unf.edu/~wkloster/2220/ppts/cprogramming_tutorial.pdf

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Title of the Paper: C Programming & MS-Office		
Credit: 4 **Course Outcome:**	At the end of this course, the successful students will be able to: • Use C constructs • Write basic C Programs • Work with MS-Office	**Practical**

List of Exercise based on C Programming & MS-Office:

C Programming:

1. Exercise on different operators used in C Language-Arithmetic/Logical/ Relational/Bit wise/Increment-Decrement/Ternary/ Special operators.
2. Data types/variable implementation.
3. Formatted and unformatted I/O function implementation.
4. Branching Statement-if, if-else, nested if-else, Else if ladder, Switch-case.
5. Looping Statement-while, do while, for.
6. Array implementation-single and multidimensional.
7. Structure & Union implementation.
8. Pointer implementation, types-void pointer.
9. Enum and storage classes implementation.
10. Pre-processor Directive, file handling through various functions.

MS Office:

1. Creating, Opening, Saving a Document. (Shortcut keys)
2. Formatting a document — setting paragraph, headings, font size and colour, line spacing, indentation, alignment of Document.
3. Mail-merge- envelops labels and documents.
4. Protection of document- Adding Password and Digital Signature. Inspecting and managing a document.
5. Table operations in MS Word.
6. Hyperlinking and linking documents internally and externally.
7. Formatting operations in MS-Word.
8. Spread Sheet formatting.
9. Referencing cell in spreadsheet.

Referenced Books:

[1]Suresh Prasad Kannojia, "Programming in C: Learn with Examples: A Practical Approach", LAP LAMBERT Academic Publishing.

[2] S.K. Srivastava and Deepali Srivastava, "C in Depth", BPB Publications.

[3]Cox, "Step by Step office professional 2010", Prentice-Hall of India

Suggested Readings:

[1] Yashavant Kanetkar , "Let us C", BPB publication, 15th edition.

[2] Gottfried, "Programming With C",McGraw Hill.

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