

## Lesson Plan for BCA 2<sup>nd</sup> Sem(Session 2023-24)

Assistant Professor: Dr. Sudesh Lather

### Subject: BCA-106 Programming in C

Month	Week	Description
January	Week 1	History of C, importance of C, structure of C Program, elements of C, C Character set
	Week 2	Identifiers and keywords, data types in C, operators in C, hierarchy of operators
	Week 3	IO statements, arithmetic expression, evaluation of arithmetic expression, type casting and conversion.
	Week 4	Operator Hierarchy and Associativity Conditional statements in C with example programs. <b>Test-1</b>
February	Week 1	Looping statements in C with example programs. Jumps in Loops, break, continue with example prog.
	Week 2	Function definition, prototyping, passing parameters to functions, Recursion. <b>Assignment-1</b>
	Week 3	Algorithm development, development of algorithms for various problems Flowcharting, development of flowcharts for various
	Week 4	problems, development of efficient programs in C. <b>Test-2</b>
March	Week 1	Standard mathematical functions in C, unformatted I/O functions in C
	Week 2	Formatted I/O functions in C
	Week 3	Introduction to user defined functions, Definition of user defined functions, passing parameters to functions, recursion, concept of local and global variables.
	Week 4	HOLI BREAK
April	Week 1	Introduction to arrays 1-D and 2-D, creating programs for searching and sorting, passing arrays to functions
	Week 2	Declaration of pointers, operations on pointers, array of pointers, pointers to arrays.
	Week 3	String handling, declaration and initialization of strings, I/O of strings, String functions, Structures, and unions.Storage classes in C with their scope, lifetime & Storage.
	Week 4	<b>Revision and Test-3</b>