**Name of the Teacher: Harleen Kaur Class: B.Sc (Hons.) IT – II**

**Paper: BSIT – 306 Nomenclature: Computer Programming With C - I**

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | **Introduction:** History of C, Importance of C, C Character Set, Identifiers & Keywords, data types, Qualifiers, Constants & Variables and their declarations, Symbolic Constants, Comments in C | **Oral Presentation** |
|  | **01-31 Aug 2017** | Expressions & statements, Structure of a C Program, Console I/O (printf, scanf). Escape Sequences.**Operators in C:** Arithmetic, logical, relational & bitwise operators, Assignment and Conditional Operators, Increment and Decrement Operators, operator hierarchy & associativity. sizeof operator, Type conversion and cast operator, Library functions in C. | **Oral Presentation****Group Discussion** |
|  | **01-30 Sept 2017** | Decision Making in C: Decision making with IF statement, IF-ELSE statement, Nested IF statement, ELSE-IF ladder, Programming examples using if Structure.Decision Making in C: switch statement, goto statement. Programming examples using switch and goto Structures. | **Oral Presentation****Power Point Presentation by Students** |
|  | **01-31 Oct 2017** | Looping in C: while, do-while & for loops, break & continue statements, Programming examples using loop Structures. Arrays: 1-D & 2-D arrays, Creating and Processing Arrays, Applications of arrays in searching, sorting | **Oral Presentation** |
|  | **01-13 Nov 2017** | **Arrays:** Merging & matrices. **Character I/O functions: getchar(), getche(), getch(), putchar().** | **Oral Presentation****Group Discussion** |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| **Assignment 1** | **Explain different types of operators in C.** |
| **Assignment 2** | **Distinguish between:**1. **Switch and goto.**
2. **Break and continue.**
3. **While and do-while.**
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| **Class Test** | **Unit 1: Introduction.** **Unit 2: Operators in C.** |