**LESSON-PLAN (Session 2021-22) Even Semester**

**Name of Professor**: Dr. Naveeta Adlakha

**Subject: Advance Programming in C**

**Class: BCA I**

**Subject/Paper: BCA 121**

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| **Sr. No.** | **Days** | **Topics to be covered** | **Remarks if any** |
|  | **01-04-2022to 15-04-2022** | UNIT – I Strings in ‘C’: Introduction, Declaration and initialization of string, String I/O, Array of strings, String manipulation functions: String length, copy, compare, concatenate, search for a substring. |  |
|  | **16-04-2022-30-04-2022** | Structure and Union: Introduction, Features of structures, Declaration and initialization of structures, Structure within structure, Array of structures, Structure and functions. Union: Introduction, Union of structures. Typedef, Enumerations.  **Assignment I** |  |
|  | **01-05-2022to 15-05-2022** | UNIT – II Pointers: Introduction, Pointer variables, Pointer operators, Pointer assignment, Pointer conversions, Pointer arithmetic, Pointer comparison, Pointers and arrays, |  |
|  | **16-05-2022-31-05-2022** | Pointers and functions, Pointers and strings, Pointer to pointer, dynamic allocation using pointers.  **Class Test I** |  |
|  | **01-06-2022to 15-06-2022** | UNIT – III Files: Introduction, File types, File operations, File I/O, Structure Read and write in a file,  **Assignment II** |  |
|  | **16-06-2022-30-06-2022** | Errors in file handling, Random-access I/O in files. **UNIT – IV**: Preprocessor: Introduction, #define, macros, macro versus functions, |  |
|  | **01-07-2022to 16-07-2022** | #include, Conditional compilation directives, undefining a macro. Command line arguments: defining and using command line arguments.  **Class Test II** |  |

\*Vacation as per university calendar

\*Assignments and unit test will be taken as per schedule.