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| **S. No.** | **Month** | **Contents** |
| 1 | April | 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. 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. |
| 2 | May | Files: Introduction, File types, File operations, File I/O, Structure Read and write in a file,Errors in file handling, Random-access I/O in Files.Command line arguments: defining and using command line arguments.  **REVISION OF SYLLABUS COVERED YET AND ASSIGNMENT 1** |
| 3 | June | Preprocessor: Introduction, #define, macros, macro versus functions, #include, Conditional compilation directives, undefining a macro. Pointers: Introduction, Pointer variables, Pointer operators, Pointer assignment, Pointer conversions, Pointer arithmetic  **REVISION OF SYLLABUS COVERED YET AND ASSIGNMENT 2 AND SESSIONAL** |
| 4 | July | Pointer comparison, Pointers and arrays, Pointers and  functions, Pointers and strings, Pointer to pointer, dynamic allocation using pointers. **Discussion on short questions based on covered chapter Revision of Syllabus** |

**Lesson Plan (Session- 2021-22)**  
**B. C. A. – I, Sem. – II**

**Advanced Programming in C**

**Mr. Naresh, Assistant Professor (Computer Sc.)**

**S U S Govt. College Matak Majri, Indri (Karnal)**