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| **S. No.** | **Month** | **Contents** |
| 1 | April | Inheritance: Rules of Derivations – Private, Protected and Public Derivations. Different Forms of Inheritance – Single, Multiple, Multilevel, Hierarchical and Multipath Inheritance Roles of Constructors and Destructors in Inheritance, Genericity in C++: Templates in C++, Function templates. |
| 2 | May | Class templates in C++, Exception Handling in C++: try, throw and catch, Files I/O in C++: Class Hierarchy for Files I/O, Text versus Binary Files, Opening and Closing Files, File Pointers, Operation on files.  **REVISION OF SYLLABUS COVERED YET AND ASSIGNMENT 1** |
| 3 | June | Dynamic Polymorphism: Function Overriding, Virtual Function and its Need, Pure Virtual Function, Abstract Class, Virtual Derivation, Virtual Destructor.  **REVISION OF SYLLABUS COVERED YET AND ASSIGNMENT 2 AND SESSIONAL** |
| 4 | July | Type Conversion: Basic Type Conversion, Conversion between objects and basic types, Conversion between objects of different classes.  **Discussion on short questions based on covered chapter Revision of Syllabus** |

**Lesson Plan (Session- 2021-22)**  
**B. C. A. – II, Sem. – 4TH**

**Advanced PROGRAMMING USING C++**

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

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