# Syllabus

| Course Code | Course Name | Credit |
|---|---|---|
| CSC602 | System Programming and Compiler Construction | 4 |

## Course Objectives :

1. To understand the role and functioning of various system programs over application program.
2. To understand basic concepts and data pinning of assemblers, Macro processor and role of static and dynamic loaders and linkers.
3. To understand the need to follow the syntax in writing an application program and to learn the how the analysis phase of compiler is designed to understand the programmer's requirements without ambiguity.
4. To synthesize the analysis phase outcomes to produce the object code that is efficient in terms of space and execution time.

## Course Outcomes : On successful completion of course learner will be able to:

1. Identify the relevance of different system programs.
2. Describe the various stati structures and pasises of assembler design.
3. Identify the need for different features and designing of macros.
4. Distinguish different loaders and linkers and their contribution in developing efficient user application.
5. Construct different parsers for given context free grammar.
6. Justify the need synthesis phase to produce object code optimised in terms of high execution speed and less memory usage

**Prerequisite :** Data Structures, Theoretical computer science, Operating system, Computer Organization and Architecture, Microprocessor

| Module No. | Unit No. | Topics | Hrs |
|---|---|---|---|
| 1 | Introduction to System Software | Concept of System Software, Goals of system software & system program and system programming software. Introduction to various system programs such as Assembler, Macroprocessor, Loader, Linker, Compiler, Interpreter, Device Drivers, Operating system, Editors, Debuggers. <br> (Refer chapter 1) | 3 |
| 2 | Assemblers | Elements of Assembly Language programming, Assembly scheme, pass structure of assembler, Assembler Design: Two pass assembler Design and single pass Assembler Design for Hypothetical / X86 family processor, data structures used. <br> (Refer chapter 2) | 10 |

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**Ensheng Dong**

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