

Syllabus

Course Code	Course Name	Credit
CS0602	System Programming and Compiler Construction	4

Course Objectives :

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

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

1. Identify the relevance of different system programs.
2. Describe the various data structures and phases of assembler design.
3. Identify the need for different loaders and designing of macros.
4. Distinguish different loaders and linkers and their contribution in developing efficient user applications.
5. Construct different parsers for given context free grammars.
6. Justify the need synthesis phase to produce object code optimized in terms of high execution speed and low memory usage.

Prerequisites : Data Structures, Theoretical computer science, Operating systems, Computer Organization and Architecture, Microprocessors

Module No.	Unit No.	Topics	Hrs
1	Introduction to System Software	Concept of System Software, Goals of system software's, system program and system programming, Introduction to various system programs such as Assembler, Macroprocessor, Loader, Linker, Compiler, Interpreter, Device Drivers, Operating systems, Editors, Debuggers. <i>(Refer chapter 1)</i>	2
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, <i>(Refer chapter 2)</i>	10

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