

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.

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

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

System Programming Techmax

David Kirk



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Table of Contents System Programming Techmax

1. Understanding the eBook System Programming Techmax
 - The Rise of Digital Reading System Programming Techmax
 - Advantages of eBooks Over Traditional Books
2. Identifying System Programming Techmax
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an System Programming Techmax
 - User-Friendly Interface
4. Exploring eBook Recommendations from System Programming Techmax
 - Personalized Recommendations
 - System Programming Techmax User Reviews and Ratings
 - System Programming Techmax and Bestseller Lists
5. Accessing System Programming Techmax Free and Paid eBooks
 - System Programming Techmax Public Domain eBooks
 - System Programming Techmax eBook Subscription Services
 - System Programming Techmax Budget-Friendly Options

6. Navigating System Programming Techmax eBook Formats
 - ePub, PDF, MOBI, and More
 - System Programming Techmax Compatibility with Devices
 - System Programming Techmax Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of System Programming Techmax
 - Highlighting and Note-Taking System Programming Techmax
 - Interactive Elements System Programming Techmax
8. Staying Engaged with System Programming Techmax
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers System Programming Techmax
9. Balancing eBooks and Physical Books System Programming Techmax
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection System Programming Techmax
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine System Programming Techmax
 - Setting Reading Goals System Programming Techmax
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of System Programming Techmax
 - Fact-Checking eBook Content of System Programming Techmax
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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