

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 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's, system program and system programming, Introduction to various system programs such as Assembler, Macroprocessor, Loader, Linker, Compiler, Interpreter, Device Drivers, Operating system, 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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Official Gazette of the United States Patent and Trademark Office ,1998 **IC Master** ,2001 **Scientific and Technical Aerospace Reports** ,1987-10 **Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,1976 *Sustainable Development in AI, Blockchain, and E-Governance Applications* Kumar, Rajeev,Abdul Hamid, Abu Bakar,Binti Ya'akub, Dato' Dr Noor Inayah Binti,Sharan, Hari Om,Kumar, Sandeep,2024-02-09 In the age of immediate technical expansion our world faces a multifaceted challenge ensuring the sustainability of our digital transformation Governments and organizations have wholeheartedly embraced innovative technologies such as artificial intelligence blockchain and e governance but in doing so they have encountered a complex web of issues These range from cybersecurity concerns in an increasingly digitalized world to the need for intelligent systems capable of managing automation infrastructure and interconnected environments Sustainable Development in AI Blockchain and E Governance Applications offers a forward thinking approach that harnesses the synergy between intelligent systems machine learning deep learning and blockchain methods It explores data driven decision making automation infrastructure autonomous transportation and the creation of connected buildings all aimed at crafting a sustainable digital future By delving into topics like machine learning for smart parking disease classification through neural networks and the Internet of Things IoT for smarter cities this book equips academic scholars with the tools they need to navigate the complex terrain of technology and governance Academic scholars and researchers in technology governance and sustainability will find this book to be an indispensable resource It caters to those seeking a comprehensive understanding of current and future trends in the integration of intelligent systems with cybersecurity applications Intelligent Links 2 , **System Programming** Jin-Jwei Chen,2023 Ward's Business Directory of U.S. Private and Public Companies ,2004 **Architecture Schools in North America** ,1982 **Million Dollar Directory** Dun and Bradstreet, inc,2005 **Who's who in the West** Marquis Who's Who, LLC,1980-12 **D and B Million Dollar Directory** ,2011 *An Introduction to System Programming - Based on the PDP 11* Derrick Morris,1983 *Systems programming* John J. Donovan,1972 Systems Programmer's Problem Solver William S. Mosteller,1981 The Systems Programming Series , A Course in Systems Programming Lars-Erik Thorelli,Andrzej Ciepielewski,1980 **Tools for System Programming** Paul Robert Holley,1975 *Structured Programming* Richard C. Linger,Harlan D. Mills,Bernard I. Witt,1979 Precision programming Elements of logical expression Elements of program expression Structured programs Reading structured programs The correctness of structured programs Writing structured programs *ABCs of Z/OS System Programming* Paul Rogers,Alvaro Salla,2010

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