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 developing 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 infor structures and passes 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 grammars.
6. Justify the need synthesis phase to produce object code optimized 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.	Topic	Hrs
1		Introduction to System Software	3
		Concept of System Software, Goals of system software, system program and system programming, Introduction to various system programs such as Assembler, Macroprocessor, Loader, Linker, Compiler, Interpreter, Device Drivers, Operating system, Editors, Debuggers. **(Refer chapter 1)**	
2		Assemblers	10
		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. **(Refer chapter 2)**	

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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** ,   *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   **System Programming** Jin-Jwei Chen,2023   **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   **MVS Systems Programming** David Elder-Vass,2000   **Expert Systems Programming** Ken Pedersen,1989-05-08 How to prototype and develop an expert system This practical guide to the tools and techniques used to build expert systems shows you how to choose the best method for the job at hand saving you weeks of fact finding and experimental work Provides dozens of examples that can be applied to popular rule based systems Discusses user interface design reviewing and system testing multi valued information procedural control and much more Contains an appendix of sample knowledge bases   **An Introduction to System Programming - Based on the PDP 11** Derrick Morris,1983   **Structured System Programming** Jim Welsh,R. M. McKeag,1980 The purpose of this book is to demonstrate the

application of structure programming to the construction of system programs in particular compilers and operating systems

    Logical Programming with System/360 Don H. Stabley,1970 A comprehensive treatment of System 360 and third generation programming concepts   **Systems programming** John J. Donovan,1972   *Systems Programmer's Problem Solver* William S. Mosteller,1981

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