Text Books

a) Introduction to Systems Software Dhamdhere, D.M. second Tata Mc-Graw Hill 1996

https://toaz.info/doc-view -Pdf link

b) Systems Programming Donovan J.J. 46/2009 Mc-Graw Hill 1972

c) Principles of compiler Design Aho A.V. and J.D. Ullman second Narosa Publishing House 2002

Lecturewise coverge:

Unit 1

Lecture 1: Overview of System Software: Introduction, Software, Software Hierarchy, Systems Programming

Lecture 2 : Overview of System Software: Machine Structure, Interfaces, Address Space, Computer Languages

Lecture 3 : Overview of System Software: Tools, Life Cycle of a Source Program

Lecture 4: Overview of System Software :Different Views on the Meaning of a Program, System Software Development

Lecture 5 : Overview of System Software: Recent Trends in Software Development, Levels of System Software

Lecture 6: Assemblers: Elements of Assembly Language Programming, Design of the Assembler, Assembler Design Criteria

Lecture 7: Assemblers: Types of Assemblers, Two-Pass Assemblers, One-Pass Assemblers

Lecture 8:Assemblers: Single pass Assembler for Intel x86 , Algorithm of Single Pass Assembler

Lecture 9:Assemblers :Multi-Pass Assemblers, Advanced Assembly Process

Lecture 10: Assemblers: Variants of Assemblers Design of two pass assembler

Lecture 11: Macros: Macro and Macro Processors Introduction, Macro Definition and Call, Macro Expansion

Lecture 12: Macros: Nested Macro Calls, Advanced Macro Facilities, Design Of a Macro Preprocessor

Lecture 13:Macros :Design of a Macro Assembler, Functions of a Macro Processor, Basic Tasks of a Macro Processor

Lecture 14: Macros :Design Issues of Macro Processors, Features, Macro

