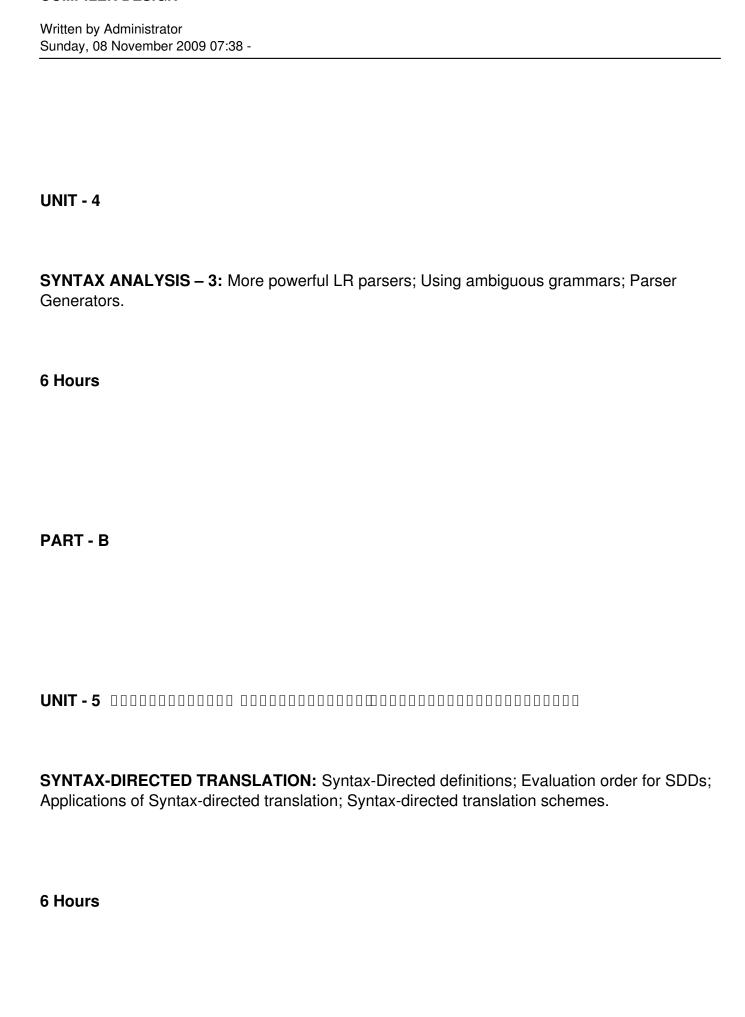
Written by Administrator Sunday, 08 November 2009 07:38 -
Subject Code
□   6CS63/06IS662□ □ □
IA Marks
25
No. of Lecture Hrs./ Week
04
Exam Hours

Written by Administrator

Sunday, 08 November 2009 07:38 -
03
Total No. of Lecture Hrs.
52
Exam Marks
100
PART - A

Written by Administrator Sunday, 08 November 2009 07:38 -
UNIT - 1
<b>INTRODUCTION, LEXICAL ANALYSIS:</b> Language processors; The structure of a Compilers; The evolution of programming languages; The science of building a compiler; Applications of Compiler technology; Programming language basics; Lexical analysis: The Role of Lexical Analyzer; Input Buffering; Specifications of Tokens; Recognition of Tokens.
8 Hours
UNIT - 2
SYNTAX ANALYSIS – 1: Introduction; Context-free Grammars; Writing a Grammar; Top-down Parsing.
6 Hours
UNIT - 3
SYNTAX ANALYSIS – 2: Bottom-up Parsing; Introduction to LR Parsing: Simple LR.
6 Hours



Written by Administrator Sunday, 08 November 2009 07:38 -**UNIT - 6 INTERMEDIATE CODE GENERATION:** Variants of syntax trees; Three-address code; Types and declarations; Translation of expressions; Type checking; Control flow; Back patching; Switch statements; Intermediate code for procedures. 8 hours **UNIT - 7** RUN-TIME ENVIRONMENTS: DDDD Storage Organization; Stack allocation of space; Access to non-local data on the stack; Heap management; Introduction to garbage collection. 6 Hours **UNIT - 8** 

Written by Administrator Sunday, 08 November 2009 07:38 -  6 Hours  TEXT BOOK:  1. Compilers- Principles, Techniques and Tools – Alfred V Aho, Monica S. Lam, Ravi Sethi, Jeffrey D Ullman – 2 Edition, Addison-Wesley, 2007.
TEXT BOOK:  1. Compilers- Principles, Techniques and Tools – Alfred V Aho, Monica S. Lam, Ravi Sethi, Jeffrey D Ullman – 2 Edition, Addison-Wesley, 2007.
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Sethi, Jeffrey D Ullman – 2 Edition, Addison-Wesley, 2007.
Sethi, Jeffrey D Ullman – 2 Edition, Addison-Wesley, 2007.
REFERENCE BOOKS:
1. <b>Crafting a Compiler with C</b> – Charles N. Fischer, Richard J. leBlanc, Jr., Pearson Education, 1991.
2. <b>Modern Compiler Implementation in C</b> – Andrew W Apple Cambridge University Press, 1997.

3. **Compiler Construction Principles & Practice** – Kenneth C Louden – Thomson Education, 1997.

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