

ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA
DEPARTMENT OF COMPUTERS SCIENCE & ENGINEERING
LECTURE SCHEDULE

SUBJECT: COMPILER DESIGN

FACULTY: T.KRISHNA KISHORE

No. of Lectures per week: 5+1* (Tutorial)

ACADEMIC YEAR: 2018-19

YEAR & SEM: III - I CSE 'C'

S. No.	Date	Unit No.	Topic to be covered
1	11-06-18	I	Introduction Language Processing
2	12-06-18		Structure of a compiler
3	13-06-18		evaluation of Programming Languages
4	14-06-18		The Science of building a Compiler
5	14-06-18		Applications of Compiler Technology.
6	18-06-18		Programming Language Basics.
7	19-06-18		The role of lexical analysis
8	20-06-18		buffering
9	21-06-18		specification of tokens
10	21-06-18		TUTORIAL
11	22-06-18		Recognitions of tokens
12	25-06-18		lexical analyzer generator lex
13	26-06-18		Revision through Nptel Video/PPT
14	27-06-18		UNIT TEST - I
15	28-06-18	II	Role of a parser
16	28-06-18		TUTORIAL
17	29-06-18		Context free Grammars
18	02-07-18		Writing A grammar
19	03-07-18		Writing A grammar
20	04-07-18		Top down parsing
21	05-07-18		Top down parsing
22	05-07-18		TUTORIAL
23	06-07-18		Top down parsing
24	09-07-18		bottom up parsing
25	10-07-18		bottom up parsing
26	11-07-18		Introduction to Lr Parser
27	12-07-18		Revision through Nptel Video/PPT
28	12-07-18		TUTORIAL
29	13-07-18		UNIT TEST - II
30	16-07-18	III	More Powerful LR parser LR1
31	17-07-18		LR1 parser
32	18-07-18		LALR
33	19-07-18		LALR
34	19-07-18		TUTORIAL
35	20-07-18		Using Ambiguous Grammars
36	23-07-18		Error Recovery in Lr parser
37	24-07-18		Syntax Directed Transactions Definition
38	25-07-18		Evolution order of SDTS
39	26-07-18		Application of SDTS.
40	26-07-18		TUTORIAL
41	27-07-18		Syntax Directed Translation Schemes.
42	30-07-18		Revision through Nptel Video/PPT
43	31-07-18		IV
44	01-08-18	Three Address Code	
45	02-08-18	Three Address Code	
46	02-08-18	TUTORIAL	
47	03-08-18	Types and declarations,	
48	06-08-18	Revision	
49	07-08-18	Revision	

50	08-08-18	IV	Revision
51	09-08-18		Revision
52	09-08-18		Revision
53	10-08-18		Revision
54	13-08-18		Variants of Syntax trees
55	14-08-18		Translation of Expressions
56	16-08-18		Type Checking
57	16-08-18		TUTORIAL
58	17-08-18		Type Checking
59	20-08-18		Control Flow Back patching
60	21-08-18		Control Flow Back patching
61	23-08-18		Revision through Nptel Video/PPT
62	23-08-18		TUTORIAL
63	24-08-18		UNIT TEST - IV
64	27-08-18	V	Runtime Environments,
65	28-08-18		Stack allocation of space
66	29-08-18		stack allocation of space
67	30-08-18		Access to non-local data on the stack
68	30-08-18		TUTORIAL
69	31-08-18		heap management
70	04-09-18		Code generation:Issues, target language
71	05-09-18		Address in the target code
72	06-09-18		Basic blocks & flow graphs
73	06-09-18		TUTORIAL
74	07-09-18		Basic blocks & flow graphs
75	10-09-18		Simple code generation
76	11-09-18		Revision through Nptel Video/PPT
77	12-09-18		UNIT TEST - V
78	17-09-18	VI	Machine independent code optimization
79	18-09-18		The principle sources of Optimization
80	19-09-18		The principle sources of Optimization
81	20-09-18		peep hole Optimization
82	20-09-18		TUTORIAL
83	24-09-18		peep hole Optimization
84	25-09-18		Introduction to Data flow Analysis.
85	26-09-18		Live variable Analysis
86	27-09-18		TUTORIAL
87	27-09-18		Reaching definitions
88	28-09-18		Reaching definitions
89	01-10-18		Revision through Nptel Video/PPT
90	03-10-18		Revision
91	04-10-18		Revision
92	04-10-18		Revision
93	05-10-18		Revision
94	08-10-18		Revision
95	09-10-18		Revision
96	10-10-18		Revision
97	11-10-18		Revision
98	11-10-18		Revision
99	12-10-18		Revision

TEXT BOOKS:

1. Compilers, Principles Techniques and Tools. Alfred V Aho, Monical S. Lam, Ravi Sethi
Jeffery D. Ullman, 2nd edition, Pearson, 2007
2. Compiler Design K. Muneeswaran, OXFORD
3. Principles of compiler design, 2nd edition, Nandhini Prasad, Elsevier.

REFERENCE BOOKS:

1. Compiler Construction, Principles and practice, Kenneth C Loudon, CENGAGE
2. Implementations of Compiler, A New approach to Compilers including the algebraic methods, Yunlinsu ,SPRINGER

FACULTY

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