

ST.ANN'S COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
LECTURE SCHEDULE

Subject: COMPILER DESIGN
Name: M.Lakshmi Bai

Academic Year: 2019-20
Year/Semester: III-I Semester 'C'
No. of Lectures per week: 5+ 1 (Tutorial)

S.No	DATE	UINITS	TOPICS
1	10-Jun-19	I	Introduction Language Processing
2	10-Jun-19		Structure of a compiler
3	11-Jun-19		evaluation of Programming Languages
4	13-Jun-19		The Science of building a Compiler
5	14-Jun-19		application of Compiler Technology.
6	15-Jun-19		Programming Language Basics.
7	17-Jun-19		The role of lexical analysis
8	17-Jun-19		TUTORIAL
9	18-Jun-19		buffering,
10	20-Jun-19		specification of tokens
11	21-Jun-19		Recognitions of tokens
12	22-Jun-19		lexical analyzer generator lex
13	24-Jun-19		TUTORIAL
14	24-Jun-19		Revision
15	25-Jun-19		TEST-I
16	27-Jun-19	II	Role of a parser
17	28-Jun-19		Context free Grammars
18	29-Jun-19		Writing A grammar
19	1-Jul-19		Writing A grammar
20	1-Jul-19		TUTORIAL
21	2-Jul-19		Top down parsing
22	4-Jul-19		Top down parsing
23	5-Jul-19		Top down parsing
24	6-Jul-19		bottom up parsing
25	8-Jul-19		bottom up parsing
26	8-Jul-19		TUTORIAL
27	9-Jul-19		Introduction to Lr Parser.
28	11-Jul-19		Revision
29	12-Jul-19	TEST-II	
30	15-Jul-19	III	More Powerful LR parser LR1,
31	15-Jul-19		TUTORIAL
32	16-Jul-19		LR1 parser
33	18-Jul-19		LALR
34	19-Jul-19		LALR
35	20-Jul-19		Using Ambiguous Grammars
36	22-Jul-19		Error Recovery in Lr parser
37	22-Jul-19		TUTORIAL
38	23-Jul-19		Syntax Directed Transactions Definition
39	25-Jul-19		Evolution order of SDTS
40	26-Jul-19		Application of SDTS.

41	27-Jul-19		Syntax Directed Translation Schemes.
42	29-Jul-19		Revision
43	29-Jul-19		TUTORIAL
44	30-Jul-19	IV	Intermediate code
45	1-Aug-19		Intermediate code
46	2-Aug-19		Three Address Code
47	3-Aug-19	Mid 1	Revision
48	5-Aug-19		Revision
49	5-Aug-19		Mid 1
50	6-Aug-19		Mid 1
51	8-Aug-19		Mid 1
52	9-Aug-19		Mid 1
53	10-Aug-19		Mid 1
54	13-Aug-19	IV	Three Address Code
55	16-Aug-19		Types and declarations,
56	17-Aug-19		Variants of Syntax trees
57	19-Aug-19		Translation of Expressions
58	19-Aug-19		TUTORIAL
59	20-Aug-19		Type Checking
60	22-Aug-19		Control Flow Back patching
61	26-Aug-19		Control Flow Back patching
62	26-Aug-19		TUTORIAL
63	27-Aug-19		Revision
64	29-Aug-19		TEST-IV
65	30-Aug-19	V	Runtime Environments,
66	31-Aug-19		Stack allocation of space
67	3-Sep-19		stack allocation of space
68	5-Sep-19		Access to non-local data on the stack
69	6-Sep-19		heap management
70	7-Sep-19		Code generation:Issues, target language
71	9-Sep-19		Address in the target code
72	9-Sep-19		TUTORIAL
73	10-Sep-19		Basic blocks & flow graphs
74	12-Sep-19		Basic blocks & flow graphs
75	13-Sep-19		Simple code generation
76	16-Sep-19		Revision
77	16-Sep-19		TUTORIAL
78	17-Sep-19		
79	19-Sep-19	VI	Machine independent code optimization
80	20-Sep-19		The principle sources of Optimization
81	21-Sep-19		The principle sources of Optimization
82	23-Sep-19		The principle sources of Optimization
83	23-Sep-19		TUTORIAL
84	24-Sep-19		peep hole Optimization
85	26-Sep-19		peep hole Optimization
86	27-Sep-19		Introduction to Data flow Analysis.
87	28-Sep-19		

88	30-Sep-19		Reaching definitions
89	30-Sep-19		TUTORIAL
90	1-Oct-19		Revision
91	3-Oct-19	MID2	Revision
92	4-Oct-19		Revision
93	5-Oct-19		Revision
94	7-Oct-19		mid 2
95	7-Oct-19		mid 2
96	10-Oct-19		mid 2
97	11-Oct-19		mid 2
98	12-Oct-19		mid 2

FACULTY

HEAD OF THE DEPARTMENT'

Text Books:

1. Compilers, Principles Techniques and Tools- Alfred V Aho, Monica S Lam, Ravi Sethi, Jeffrey D.Ullman, 2nd ed, Pearson, 2007. 2. Compiler Design, K. Muneeswaran, Oxford.

Reference Books:

1. Engineering a compiler, 2nd edition, Keith D. Cooper & Linda Torczon, Morgan Kaufman.
2. <http://www.nptel.iitm.ac.in/downloads/106108052/>
3. Principles of compiler design, V. Raghavan, 2nd ed, TMH, 2011.
4. Compiler construction, Principles and Practice, Kenneth C Loudon, CENGAGE.
5. Implementations of Compiler, A new approach to Compilers including the algebraic methods, Yunlinsu, SPRINGER.