

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

Subject: COMPILER DESIGN

Academic Year: 2019-20

Name: T. KRISHNA KISHORE

Year/Semester: III-I Semester 'A'

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

S.No	DATE	UINITS	TOPICS
1	10-Jun-19	I	Introduction Language Processing
2	11-Jun-19		Structure of a compiler
3	12-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, buffering
8	18-Jun-19		specification of tokens
9	19-Jun-19		Recognitions of tokens
10	20-Jun-19		lexical analyzer generator lex
11	21-Jun-19		Revision through NPTEL VIDEO / PPT
12	22-Jun-19		TUTORIAL
13	24-Jun-19		CLASS TEST-I
14	25-Jun-19	II	Role of a parser
15	26-Jun-19		Context free Grammars
16	27-Jun-19		Writing A grammar
17	28-Jun-19		Writing A grammar
18	29-Jun-19		TUTORIAL
19	01-Jul-19		Top down parsing
20	02-Jul-19		Top down parsing
21	03-Jul-19		bottom up parsing
22	04-Jul-19		bottom up parsing
23	05-Jul-19		Introduction to Lr Parser
24	06-Jul-19		TUTORIAL
25	08-Jul-19		Introduction to Lr Parser
26	09-Jul-19		Revision through NPTEL VIDEO / PPT
27	10-Jul-19		CLASS TEST-II
28	11-Jul-19	III	More Powerful LR parser LR1
29	12-Jul-19		LR1 parser
30	15-Jul-19		LALR
31	16-Jul-19		LALR
32	17-Jul-19		Using Ambiguous Grammars
33	18-Jul-19		Error Recovery in Lr parser
34	19-Jul-19		Syntax Directed Transactions Definition
35	20-Jul-19		TUTORIAL
36	22-Jul-19		Evolution order of SDTS
37	23-Jul-19		Application of SDTS.
38	24-Jul-19	Syntax Directed Translation Schemes.	
39	25-Jul-19	Revision through NPTEL VIDEO / PPT	
40	26-Jul-19	IV	Intermediate code
41	27-Jul-19		TUTORIAL
42	29-Jul-19		Intermediate code
43	30-Jul-19		Three Address Code
44	31-Jul-19		Types and declarations,
45	1-Aug-19		Variants of Syntax trees
46	2-Aug-19		Translation of Expressions
47	3-Aug-19		TUTORIAL

48	5-Aug-19	MID-I	Revision
49	6-Aug-19		Revision
50	7-Aug-19		Revision
51	8-Aug-19		Revision
52	9-Aug-19		Revision
53	10-Aug-19		Revision
54	13-Aug-19	IV	Type Checking
55	14-Aug-19		Type Checking
56	16-Aug-19		Control Flow Back patching
57	17-Aug-19		TUTORIAL
58	19-Aug-19		Control Flow Back patching
59	20-Aug-19		Revision through NPTEL VIDEO / PPT
60	21-Aug-19		CLASS TEST-III
61	22-Aug-19	V	Runtime Environments
62	26-Aug-19		stack allocation of space
63	27-Aug-19		Access to non-local data on the stack
64	28-Aug-19		heap management
65	29-Aug-19		Code generation: Issues
66	30-Aug-19		target language
67	31-Aug-19		TUTORIAL
68	3-Sep-19		Address in the target code
69	4-Sep-19		Basic blocks flow graphs
70	5-Sep-19		Basic blocks & flow graphs
71	6-Sep-19		Simple code generation
72	7-Sep-19		TUTORIAL
73	9-Sep-19		Simple code generation
74	11-Sep-19		Revision through NPTEL VIDEO / PPT
75	12-Sep-19		CLASS TEST-IV
76	13-Sep-19	VI	Machine independent code optimization
77	16-Sep-19		Machine independent code optimization
78	17-Sep-19		The principle sources of Optimization
79	18-Sep-19		peep hole Optimization
80	19-Sep-19		peep hole Optimization
81	20-Sep-19		Introduction to Data flow Analysis.
82	21-Sep-19		TUTORIAL
83	23-Sep-19		Date flow Analysis.
84	24-Sep-19		Live variable Analysis
85	25-Sep-19		Reaching definitions
86	26-Sep-19		Reaching definitions
87	27-Sep-19	Revision through NPTEL VIDEO / PPT	
88	28-Sep-19		Revision
89	30-Sep-19		Revision
90	1-Oct-19		Revision
91	3-Oct-19		Revision
92	4-Oct-19		Revision
93	5-Oct-19		Revision
94	7-Oct-19	MID-II	Revision
95	9-Oct-19		Revision
96	10-Oct-19		Revision
97	11-Oct-19		Revision
98	12-Oct-19		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 Incharge

Head of the Department

SACET CSE