

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

LECTURE SCHEDULE

SUBJECT: Principles of Programming Languages

ACADEMIC YEAR: 2019-20

NAME: M. Lakshmi Bai

YEAR & SEM/SECTION: II-I 'A'

No. of Lectures per week : 4+1* (Tutorial)

S. NO	DATE	UNITS	TOPICS
1	18/11/2019	I	Evolution of programming languages
2	19/11/2019		describing syntax
3	20/11/2019		Context Free Grammars
4	21/11/2019		attribute grammars
5	22/11/2019		Tutorial
6	23/11/2019		describing semantics
7	25/11/2019		Lexical analysis
8	26/11/2019		Parsing recursive – decent
9	27/11/2019		bottom - up parsing
10	28/11/2019		Revision
11	29/11/2019		Tutorial
12	30/11/2019		SLIP-Test-I
13	02/12/2019	II	Names, variables, binding
14	03/12/2019		type checking, scope, scope rules,
15	04/12/2019		lifetime and garbage collection,
16	05/12/2019		primitive data types
17	06/12/2019		Tutorial
18	07/12/2019		strings, array types, associative arrays
19	09/12/2019		record types, union types
20	10/12/2019		pointers and references, Arithmetic expressions
21	11/12/2019		overloaded operators, type conversions
22	12/12/2019		relational and boolean expressions, assignment statements
23	13/12/2019		Tutorial
24	14/12/2019		mixed mode assignments,
25	16/12/2019		control structures – selection,
26	17/12/2019		iterations, branching,
27	18/12/2019		guarded Statements
28	19/12/2019		Revision
29	20/12/2019		Tutorial
30	21/12/2019	Unit Test-2	
31	23/12/2019	III	Subprograms,
32	26/12/2019		design issues, local referencing
33	27/12/2019		Tutorial
34	28/12/2019		parameter passing, overloaded methods
35	30/12/2019		generic methods, design issues for functions
36	31/12/2019		semantics of call and return
37	01/01/2020		implementing simple subprograms
38	02/01/2020		stack and dynamic local variables, nested subprograms, dynamic scoping
39	03/01/2020		Tutorial
40	04/01/2020		Revision
41	06/01/2020	MID & Revision	Revision
42	07/01/2020		Revision
43	08/01/2020		Revision

44	09/01/2020		Revision
45	10/01/2020		Tutorial
46	13/01/2020		MID-1
47	18/01/2020		MID-1
48	20/01/2020		MID-1
49	21/01/2020		MID-1
50	22/01/2020		MID-1
51	23/01/2020		MID-1
52	24/01/2020	IV	Object – orientation
53	25/01/2020		Object – orientation
54	27/01/2020		design issues for OOP languages
55	28/01/2020		implementation of object oriented constructs
56	29/01/2020		Concurrency
57	30/01/2020		Semaphores,Monitors
58	31/01/2020		Tutorial
59	01/02/2020		message passing,
60	03/02/2020		Threads
61	04/02/2020		statement level concurrency
62	05/02/2020		exception handling,event handling
63	06/02/2020		Revision
64	07/02/2020		Tutorial
65	10/02/2020		Unit Test 4
66	11/02/2020		V
67	12/02/2020	fundamentals of functional programming languages	
68	13/02/2020	Introduction to lambda calculus	
69	14/02/2020	Tutorial	
70	15/02/2020	Programming with Scheme	
71	17/02/2020	Programming with Scheme	
72	18/02/2020	Programming with ML,	
73	19/02/2020	Programming with ML,	
74	20/02/2020	Revision	
75	21/02/2020	Tutorial	
76	22/02/2020	Unit Test 5	
77	25/02/2020	VI	Introduction to logic and logic programming,
78	26/02/2020		logic programming languages
79	27/02/2020		logic programming languages
80	28/02/2020		Tutorial
81	29/02/2020		Programming with Prolog,
82	02/03/2020		Programming with Prolog,
83	03/03/2020		Programming with Prolog,
84	04/03/2020		multi - paradigm languages
85	05/03/2020		multi - paradigm languages
86	06/03/2020		Tutorial
87	07/03/2020		multi - paradigm languages
88	10/03/2020	Mid & Revision	Revision
89	11/03/2020		Revision
90	12/03/2020		Revision
91	13/03/2020		Revision
92	16/03/2020		Revision
93	17/03/2020		Revision
94	18/03/2020		Revision

95	19/03/2020		Revision
96	20/03/2020		Revision
97	21/03/2020		Revision
98	23/03/2020		MID-2
99	24/03/2020		MID-2
100	26/03/2020		MID-2
101	27/03/2020		MID-2
102	28/03/2020		MID-2
103	30/03/2020		MID-2

TEXT BOOKS:

1. Robert W. Sebesta, "Concepts of Programming Languages", Tenth Edition, Addison Wesley, 2012.
2. Programming Languages, Principles & Paradigms, 2ed, Allen B Tucker, Robert E Noonan, TMH

REFERENCES:

1. R. Kent Dybvig, "The Scheme programming language", Fourth Edition, MIT Press, 2009.
2. Jeffrey D. Ullman, "Elements of ML programming", Second Edition, Prentice Hall, 1998.
3. W. F. Clocksin and C. S. Mellish, "Programming in Prolog: Using the ISO Standard", Fifth Edition, Springer, 2003.

FACULTY MEMBER

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