

ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA
DEPARTMENT OF COMPUTERSCIENCE & ENGINEERING

LECTURE SCHEDULE

SUBJECT: Principles of Programming Languages

ACADEMIC YEAR: 2018-19

NAME: M. Lakshmi Bai

YEAR & SEM/SECTION: II-II 'B'

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

S. NO	DATE	UNIT	TOPICS
1	19-Nov-18	I	Evolution of programming languages
2	20-Nov-18		describing syntax
3	20-Nov-18		Context Free Grammars
4	23-Nov-18		attribute grammars
5	24-Nov-18		describing semantics
6	26-Nov-18		describing semantics
7	27-Nov-18		Lexical analysis
8	27-Nov-18		Parsing recursive – decent
9	28-Nov-18		bottom - up parsing
10	30-Nov-18		bottom - up parsing
11	1-Dec-18		
12	3-Dec-18		Slip Test-1
13	4-Dec-18	II	Names, variables, binding
14	4-Dec-18		Tutorial
15	5-Dec-18		type checking, scope, scope rules,
16	7-Dec-18		primitive data types
17	8-Dec-18		lifetime and garbage collection,
18	10-Dec-18		strings, array types, associative arrays
19	11-Dec-18		Tutorial
20	11-Dec-18		record types, union types
21	12-Dec-18		pointers and references, Arithmetic expressions
22	14-Dec-18		mixed mode assignments
23	15-Dec-18		overloaded operators, type conversions
24	17-Dec-18		relational and boolean expressions, assignment statements
25	18-Dec-18		control structures – selection,
26	18-Dec-18		Tutorial
27	19-Dec-18		iterations, branching, guarded Statements
28	21-Dec-18		Revision
29	22-Dec-18		Slip Test-II
30	26-Dec-18		III
31	28-Dec-18	design issues, local referencing	
32	29-Dec-18	parameter passing, overloaded methods	
33	31-Dec-18	generic methods, design issues for functions	
34	2-Jan-19	semantics of call and return	
35	4-Jan-19	implementing simple subprograms	
36	5-Jan-19	implementing simple subprograms	
37	7-Jan-19	stack and dynamic local variables	
38	8-Jan-19	Tutorial	
39	8-Jan-19	Nested subprograms	
40	9-Jan-19	Dynamic scoping	
41	11-Jan-19	Dynamic scoping	
42	17-Jan-19	Revision (mid-2)	
43	18-Jan-19	Revision (mid-2)	
45	21-Jan-19	Revision (mid-2)	

46	22-Jan-19		Revision (mid-2)	
47	22-Jan-19		Revision (mid-2)	
48	23-Jan-19		Revision (mid-2)	
49	25-Jan-19	IV	Object – orientation	
50	28-Jan-19		design issues for OOP languages	
51	29-Jan-19		Tutorial	
52	29-Jan-19		implementation of object oriented constructs	
53	30-Jan-19		implementation of object oriented constructs	
54	1-Feb-19		Concurrency	
55	2-Feb-19		Semaphores,Monitors	
56	4-Feb-19		message passing	
57	5-Feb-19		Tutorial	
58	5-Feb-19		Threads	
59	6-Feb-19		statement level concurrency	
60	8-Feb-19		exception handling	
61	11-Feb-19		Event handling	
62	12-Feb-19		Revision	
63	12-Feb-19		Tutorial	
64	13-Feb-19		SLIP-TEST-IV	
65	15-Feb-19		V	Introduction to lambda calculus,
66	16-Feb-19			fundamentals of functional programming languages
67	18-Feb-19			fundamentals of functional programming languages
68	19-Feb-19			Tutorial
69	19-Feb-19	Programming with Scheme		
70	20-Feb-19	Programming with Scheme		
71	22-Feb-19	Programming with ML,		
72	23-Feb-19	Programming with ML,		
73	25-Feb-19	Programming with ML,		
74	26-Feb-19	Tutorial		
75	26-Feb-19	Revision		
76	27-Feb-19	SLIP-TEST-V		
77	1-Mar-19	VI		Introduction to logic programming
78	2-Mar-19		logic programming languages	
79	5-Mar-19		Programming with Prolog,	
80	5-Mar-19		Tutorial	
81	6-Mar-19		Programming with Prolog,	
82	8-Mar-19		Programming with Prolog,	
83	11-Mar-19		multi - paradigm languages	
84	12-Mar-19		multi - paradigm languages	
85	12-Mar-19		Revision	
86	13-Mar-19		Revision	
87	15-Mar-19	Revision		
88	16-Mar-19	Revision		
89	18-Mar-19	Revision		
90	19-Mar-19	Revision		
91	19-Mar-19	Revision		
92	20-Mar-19	Revision		
93	23-Mar-19	Revision		
94	25-Mar-19	Revision(mid-2)		
95	26-Mar-19	Revision(mid-2)		
96	26-Mar-19	Revision (mid-2)		

97	27-Mar-19		Revision (mid-2)
98	29-Mar-19		Revision (mid-2)
99	30-Mar-19		Revision (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.

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