

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

**LECTURE SCHEDULE**

**SUBJECT: Principles of Programming Languages**

**ACADEMIC YEAR: 2017-18**

**NAME: M. Lakshmi Bai**

**YEAR & SEM/SECTION: II-II 'C'**

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

S. NO	DATE	UNITS	TOPICS
1	20-Nov-17	<b>I</b>	Evolution of programming languages
2	21-Nov-17		describing syntax
3	22-Nov-17		Context Free Grammars
4	24-Nov-17		attribute grammars
5	25-Nov-17		describing semantics
6	27-Nov-17		Lexical analysis
7	28-Nov-17		Parsing recursive – decent
8	29-Nov-17		bottom - up parsing
9	2-Dec-17		<b>SLIP-Test-I</b>
10	4-Dec-17	<b>II</b>	OBT-I ,Names, variables, binding
11	<b>5-Dec-17</b>		<b>Tutorial</b>
12	6-Dec-17		type checking, scope, scope rules,
13	8-Dec-17		lifetime and garbage collection,
14	11-Dec-17		primitive data types
15	<b>12-Dec-17</b>		<b>Tutorial</b>
16	13-Dec-17		strings, array types, associative arrays
17	15-Dec-17		record types, union types
18	16-Dec-17		pointers and references, Arithmetic expressions
19	18-Dec-17		overloaded operators, type conversions
20	<b>19-Dec-17</b>		<b>Tutorial</b>
21	20-Dec-17		relational and boolean expressions, assignment statements
22	22-Dec-17		mixed mode assignments,
23	23-Dec-17		control structures – selection,
24	<b>26-Dec-17</b>		<b>Tutorial</b>
25	27-Dec-17		iterations, branching, guarded Statements
26	29-Dec-17	<b>Unit Test 2</b>	
27	30-Dec-17	<b>III</b>	OBT-II, Subprograms,
28	1-Jan-18		design issues, local referencing
29	<b>2-Jan-18</b>		<b>Tutorial</b>
30	3-Jan-18		parameter passing, overloaded methods
31	5-Jan-18		generic methods, design issues for functions
32	6-Jan-18		semantics of call and return
33	8-Jan-18		implementing simple subprograms
34	<b>9-Jan-18</b>		<b>Tutorial</b>
35	10-Jan-18		stack and dynamic local variables
36	12-Jan-18		nested subprograms, dynamic scoping
37	17-Jan-18		Revision (Mid 1)
38	19-Jan-18	Revision (Mid 1)	
39	20-Jan-18	Revision (Mid 1)	
40	22-Jan-18	Revision (Mid 1)	
41	<b>23-Jan-18</b>	<b>Tutorial</b>	
42	24-Jan-18	<b>IV</b>	Object – orientation
43	27-Jan-18		design issues for OOP languages
44	29-Jan-18		implementation of object oriented constructs
45	<b>30-Jan-18</b>		<b>Tutorial</b>
46	31-Jan-18		Concurrency
47	2-Feb-18	Semaphores, Monitors	

48	3-Feb-18		message passing,
49	5-Feb-18		Threads
50	<b>6-Feb-18</b>		<b>Tutorial</b>
51	7-Feb-18		statement level concurrency
52	9-Feb-18		exception handling,event handling
53	10-Feb-18		<b>SLIP-TEST-IV</b>
54	14-Feb-18	<b>V</b>	OBT-IV, Introduction to lambda calculus,
55	16-Feb-18		fundamentals of functional programming languages
56	17-Feb-18		Programming with Scheme
57	19-Feb-18		Programming with Scheme
58	<b>20-Feb-18</b>		<b>Tutorial</b>
59	21-Feb-18		Programming with ML,
60	23-Feb-18		<b>SLIP-TEST-V</b>
61	24-Feb-18	<b>VI</b>	OBT-V, Introduction to logic and logic programming,
62	26-Feb-18		logic programming languages
63	<b>27-Feb-18</b>		<b>Tutorial</b>
64	28-Feb-18		Programming with Prolog,
65	3-Mar-18		Programming with Prolog,
66	5-Mar-18		Multi-Paradigm languages
67	6-Mar-18		Revision
68	7-Mar-18		Revision
69	9-Mar-18		Revision
70	12-Mar-18		Revision
71	13-Mar-18		Revision
72	14-Mar-18		Revision
73	16-Mar-18		Revision
74	17-Mar-18		Revision
75	19-Mar-18		Revision (mid-2)
76	20-Mar-18		Revision (mid-2)
77	21-Mar-18		Revision (mid-2)
78	23-Mar-18		Revision (mid-2)
79	24-Mar-18		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.

**FACULTY MEMBER**

**HEAD OF THE DEPARTMENT**