

**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 'A'**

**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	23-Nov-17		attribute grammars
5	24-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	30-Nov-17		<b>SLIP-Test-I</b>
10	4-Dec-17	<b>II</b>	OBT-1, Names, variables, binding
11	5-Dec-17		type checking, scope, scope rules,
12	6-Dec-17		lifetime and garbage collection,
13	<b>7-Dec-17</b>		<b>Tutorial</b>
14	8-Dec-17		primitive data types
15	11-Dec-17		strings, array types, associative arrays
16	12-Dec-17		record types, union types
17	13-Dec-17		pointers and references, Arithmetic expressions
18	<b>14-Dec-17</b>		<b>Tutorial</b>
19	15-Dec-17		overloaded operators, type conversions
20	18-Dec-17		relational and boolean expressions, assignment statements
21	19-Dec-17		mixed mode assignments,
22	20-Dec-17		control structures – selection,
23	<b>21-Dec-17</b>		<b>Tutorial</b>
24	22-Dec-17		iterations, branching, guarded Statements
25	26-Dec-17	<b>Slip Test 2</b>	
26	27-Dec-17	<b>III</b>	OBT-II, Subprograms,
27	<b>28-Dec-17</b>		<b>Tutorial</b>
28	29-Dec-17		design issues, local referencing
29	1-Jan-18		parameter passing, overloaded methods
30	2-Jan-18		generic methods, design issues for functions
31	3-Jan-18		semantics of call and return
32	<b>4-Jan-18</b>		<b>Tutorial</b>
33	5-Jan-18		implementing simple subprograms
34	8-Jan-18		stack and dynamic local variables
35	9-Jan-18	nested subprograms, dynamic scoping	
36	10-Jan-18	<b>IV</b>	Object – orientation
37	<b>11-Jan-18</b>		<b>Tutorial</b>
38	12-Jan-18		design issues for OOP languages
39	17-Jan-18		Revision (Mid 1)
40	<b>18-Jan-18</b>		<b>Tutorial</b>
41	19-Jan-18		Revision (Mid 1)
42	22-Jan-18		Revision (Mid 1)
43	23-Jan-18		Revision (Mid 1)
44	24-Jan-18		implementation of object oriented constructs
45	<b>25-Jan-18</b>		<b>Tutorial</b>
46	29-Jan-18		Concurrency
47	30-Jan-18	Semaphores, Monitors	

48	31-Jan-18		message passing,
49	<b>1-Feb-18</b>		<b>Tutorial</b>
50	2-Feb-18		Threads
51	5-Feb-18		statement level concurrency
52	6-Feb-18		exception handling,event handling
53	7-Feb-18		<b>SLIP-TEST-IV</b>
54	<b>8-Feb-18</b>		<b>Tutorial</b>
55	9-Feb-18	<b>V</b>	OBT-IV, fundamentals of functional programming languages
56	14-Feb-18		Introduction to lambda calculus
57	<b>15-Feb-18</b>		<b>Tutorial</b>
58	16-Feb-18		Programming with Scheme
59	19-Feb-18		Programming with Scheme
60	20-Feb-18		Programming with ML,
61	21-Feb-18		<b>SLIP-TEST-V</b>
62	<b>22-Feb-18</b>		<b>Tutorial</b>
63	23-Feb-18		OBT- V, Introduction to logic and logic programming,
64	26-Feb-18		logic programming languages
65	27-Feb-18		Programming with Prolog,
66	28-Feb-18	<b>VI</b>	Programming with Prolog,
67	<b>1-Mar-18</b>		<b>Tutorial</b>
68	5-Mar-18		multi - paradigm languages
69	6-Mar-18		Revision
70	7-Mar-18		Revision
71	8-Mar-18		Revision
72	9-Mar-18		Revision
73	12-Mar-18		Revision
74	13-Mar-18		Revision
75	14-Mar-18		Revision
76	15-Mar-18		Revision
77	16-Mar-18		Revision
78	19-Mar-18		Revision (mid-2)
79	20-Mar-18		Revision (mid-2)
80	21-Mar-18		Revision (mid-2)
81	22-Mar-18		Revision (mid-2)
82	23-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**

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