

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

**LECTURE SCHEDULE**

**SUBJECT: Principles of Programming Languages**

**ACADEMIC YEAR: 2017-18**

**NAME: M. Lakshmi Bai**

**YEAR & SEM/SECTION: III-I 'C'**

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

S. NO	DATE	UNITS	TOPICS
1	12-6-17	I	Evolution of programming languages
2	14-6-17		describing syntax
3	15-6-17		Context Free Grammars
4	16-6-17		attribute grammars
5	17-6-17		describing semantics
6	19-6-17		<b>Tutorial</b>
7	21-6-17		Lexical analysis
8	22-6-17		Parsing recursive – decent
9	23-6-17		bottom - up parsing
10	24-6-17		<b>REVISION UNIT-I USING NPTEL VIDEO/PPT</b>
11	26-6-17		<b>SLIP-Test-I</b>
12	28-6-17		<b>Tutorial</b>
13	29-6-17	II	Names, variables, binding
14	30-6-17		type checking, scope, scope rules,
15	01-7-17		lifetime and garbage collection,
16	3-7-17		primitive data types
17	5-7-17		<b>Tutorial</b>
18	6-7-17		strings, array types, associative arrays
19	7-7-17		record types, union types
20	10-7-17		pointers and references, Arithmetic expressions
21	12-7-17		<b>Tutorial</b>
22	13-7-17		overloaded operators, type conversions
23	14-7-17		relational and boolean expressions, assignment statements
24	15-7-17		mixed mode assignments,
26	17-7-17		control structures – selection,
27	19-7-17		<b>Tutorial</b>
28	20-7-17		iterations, branching, guarded Statements
29	21-7-17		<b>SLIP-Test-II</b>
30	22-7-17		<b>REVISION UNIT-II USING NPTEL VIDEO/PPT</b>
31	24-7-17		III
32	2-7-17	<b>Tutorial</b>	
33	27-7-17	design issues, local referencing	
34	28-7-17	parameter passing, overloaded methods	
35	29-7-17	generic methods, design issues for functions	
36	31-8-17	semantics of call and return	
37	2-8-17	<b>Tutorial</b>	
38	3-8-17	implementing simple subprograms	
39	4-8-17	stack and dynamic local variables	
40	5-8-17	nested subprograms, dynamic scoping	
41	8-8-17	<b>revision unit-iii using npTEL video/ppt</b>	
42	9-8-17	revision of previous question papers	
43	10-8-17	revision of previous question papers	
44	11-8-17	revision of previous question papers	
45	12-8-17	revision of previous question papers	

46	16-8-17	IV	Object – orientation	
47	17-8-17		Object – orientation	
48	18-8-17		design issues for OOP languages	
49	19-8-17		design issues for OOP languages	
50	21-8-17		implementation of object oriented constructs	
51	23-8-17		<b>Tutorial</b>	
52	24-8-17		Concurrency	
53	29-8-17		Semaphores,Monitors	
54	30-8-17		<b>Tutorial</b>	
55	31-8-17		message passing,	
56	1-9-17		Threads	
57	4-9-17		statement level concurrency	
58	6-9-17		<b>Tutorial</b>	
59	7-9-17		exception handling,event handling	
60	8-9-17		<b>REVISION UNIT-IV USING NPTEL VIDEO/PPT</b>	
61	9-9-17		<b>SLIP-TEST-III</b>	
62	11-9-17		V	Introduction to lambda calculus,
63	13-9-17			<b>Tutorial</b>
64	14-9-17			fundamentals of functional programming languages
65	15-9-17	fundamentals of functional programming languages		
66	16-9-17	Introduction to lambda calculus		
67	18-9-17	Programming with Scheme		
68	20-9-17	<b>Tutorial</b>		
69	21-9-17	Programming with Scheme,		
70	22-9-17	Programming with ML		
71	23-9-17	<b>REVISION UNIT-V USING NPTEL VIDEO/PPT</b>		
72	26-9-17	<b>SLIP-TEST-IV</b>		
73	27-9-17	VI	logic programming languages	
74	2-10-17		logic programming languages	
75	4-10-17		<b>Tutorial</b>	
76	5-10-17		Introduction to logic and logic programming,	
77	6-10-17		Programming with Prolog, multi - paradigm languages	
78	7-10-17		<b>revision unit-vi using npTEL video/ppt</b>	
79	10-10-17		revision of previous question papers	
80	11-10-17		revision of previous question papers	
81	12-10-17		revision of previous question papers	
82	13-10-17		revision of previous question papers	
83	14-10-17		revision of previous question papers	

**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**