

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. BABU RAO

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

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

S. NO	DATE	UNITS	TOPICS
1	13-6-17	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	20-6-17		Lexical analysis
7	21-6-17		Tutorial
8	22-6-17		Parsing recursive –
9	23-6-17		decent, bottom - up parsing
10	24-6-17		REVISION UNIT-I USING NPTEL VIDEO/PPT
11	27-6-17		SLIP-Test-I
12	28-6-17		Tutorial
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	4-7-17		primitive data types
17	5-7-17		Tutorial
18	6-7-17		strings, array types, associative arrays
19	7-7-17		record types, union types
20	11-7-17		pointers and references, Arithmetic expressions
21	12-7-17		Tutorial
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	18-7-17		control structures – selection,
27	19-7-17		Tutorial
28	20-7-17		iterations, branching, guarded Statements
29	21-7-17		SLIP-Test-II
30	22-7-17		REVISION UNIT-II USING NPTEL VIDEO/PPT
31	25-7-17		III
32	26-7-17	Tutorial	
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	1-8-17	semantics of call and return	
37	2-8-17	Tutorial	
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	REVISION UNIT-III USING NPTEL VIDEO/PPT	
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	22-8-17		implementation of object oriented constructs	
51	23-8-17		Tutorial	
52	24-8-17		Concurrency	
53	29-8-17		Semaphores,Monitors	
54	30-8-17		Tutorial	
55	31-8-17		message passing,	
56	1-9-17		Threads	
57	5-9-17		statement level concurrency	
58	6-9-17		Tutorial	
59	7-9-17		exception handling,event handling	
60	8-9-17		REVISION UNIT-IV USING NPTEL VIDEO/PPT	
61	9-9-17		SLIP-TEST-III	
62	12-9-17		V	Introduction to lambda calculus,
63	13-9-17			Tutorial
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	19-9-17	Programming with Scheme		
68	20-9-17	Tutorial		
69	21-9-17	Programming with Scheme,		
70	22-9-17	Programming with ML		
71	23-9-17	REVISION UNIT-V USING NPTEL VIDEO/PPT		
72	26-9-17	SLIP-TEST-IV		
73	27-9-17	VI		logic programming languages
74	3-10-17		logic programming languages	
75	4-10-17		Tutorial	
76	5-10-17		Introduction to logic and logic programming,	
77	6-10-17		Programming with Prolog, multi - paradigm languages	
78	7-10-17		REVISION UNIT-VI USING NPTEL VIDEO/PPT	
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