

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 'B'

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	17-6-17		attribute grammars	
5	19-6-17		describing semantics	
6	20-6-17		Lexical analysis	
7	21-6-17		Parsing	
8	22-6-17		recursive – decent, bottom - up parsing	
9	23-6-17		SLIP-Test-I	
10	24-6-17		REVISION UNIT-I USING NPTEL VIDEO/PPT	
11	27-6-17	II	Names, variables, binding	
12	28-6-17		type checking, scope, scope rules,	
13	29-6-17		lifetime and garbage collection,	
14	30-6-17		Tutorial	
15	1-7-17		primitive data types	
16	4-7-17		strings, array types, associative arrays	
17	5-7-17		record types, union types	
18	6-7-17		pointers and references, Arithmetic expressions	
19	7-7-17		Tutorial	
20	11-7-17		overloaded operators, type conversions,	
21	12-7-17		relational and boolean expressions, assignment statements	
22	13-7-17		mixed mode assignments,	
23	14-7-17		Tutorial	
24	15-7-17		control structures – selection	
25	18-7-17		iterations, branching, guarded Statements	
26	19-7-17		REVISION UNIT-II USING NPTEL VIDEO/PPT	
27	20-7-17		SLIP-Test-II	
28	21-7-17	Tutorial,		
29	22-7-17	Subprograms		
30	25-7-17	design issues, local referencing		
31	26-7-17	parameter passing, overloaded methods		
32	27-7-17	generic methods, design issues for functions		
33	28-7-17	III	Tutorial	
34	29-7-17		semantics of call and return	
35	1-8-17		implementing simple subprograms	
36	2-8-17		stack and dynamic local variables	
37	3-8-17		nested subprograms, dynamic scoping	
38	4-8-17		Tutorial	
39	5-8-17		REVISION UNIT-III USING NPTEL VIDEO/PPT	
40	8-8-17		REVISION OF PREVIOUS QUESTION PAPERS	
41	9-8-17		REVISION OF PREVIOUS QUESTION PAPERS	
42	10-8-17		REVISION OF PREVIOUS QUESTION PAPERS	
43	11-8-17		REVISION OF PREVIOUS QUESTION PAPERS	
44	12-8-17		REVISION OF PREVIOUS QUESTION PAPERS	

45	16-8-17	IV	Object – orientation	
46	17-8-17		Object – orientation	
47	18-8-17		Tutorial	
48	19-8-17		design issues for OOP languages	
49	22-8-17		design issues for OOP languages	
50	23-8-17		implementation of object oriented constructs	
51	24-8-17		Concurrency	
52	29-8-17		Semaphores	
53	30-8-17		Monitors	
54	31-8-17		message passing,	
55	1-9-17		Tutorial	
56	5-9-17		Threads	
57	6-9-17		statement level concurrency	
58	7-9-17		exception handling,	
59	8-9-17		Tutorial	
60	9-9-17		event handling	
61	12-9-17		REVISION UNIT-IV USING NPTEL VIDEO/PPT	
62	13-9-17		SLIP-TEST-III	
63	14-9-17		V	Introduction to lambda calculus,
64	15-9-17			Tutorial
65	16-9-17			Introduction to lambda calculus
66	19-9-17	fundamentals of functional programming languages		
67	20-9-17	fundamentals of functional programming languages		
68	21-9-17	Programming with Scheme		
69	22-9-17	Tutorial		
70	23-9-17	Programming with Scheme, Programming with ML		
71	26-9-17	REVISION UNIT-V USING NPTEL VIDEO/PPT		
72	27-9-17	SLIP-TEST-IV		
73	3-10-17	VI	logic programming languages	
74	4-10-17		Introduction to logic and logic programming	
75	5-10-17		, Programming with Prolog	
76	6-10-17		Tutorial	
77	7-10-17		multi - paradigm languages	
78	10-10-17		REVISION OF PREVIOUS QUESTION PAPERS	
79	11-10-17		REVISION OF PREVIOUS QUESTION PAPERS	
80	12-10-17		REVISION OF PREVIOUS QUESTION PAPERS	
81	13-10-17	REVISION OF PREVIOUS QUESTION PAPERS		
82	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