

St Ann's College of Engineering and Technology
Department of Computer Science and Engineering

Lecture Schedule

Subject : Principles of Programming Languages

Year II CSE B-II SEM

Name of the Faculty: Dr.D.N.V.Syam Kumar

Academic Year:2017-18

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

S.NO	DATE	UNIT	TOPIC
1	20-Nov-2017	I	Introduction
2	22-Nov-2017		Evolution of programming languages
3	23-Nov-2017		describing syntax
4	24-Nov-2017		Context Free Grammars
5	25-Nov-2017		attribute grammars
6	27-Nov-2017		describing semantics
7	29-Nov-2017		Lexical analysis
8	30-Nov-2017		Parsing recursive – decent
9	2-Dec-2017		bottom - up parsing
10	4-Dec-2017		bottom - up parsing
11	6-Dec-2017		Tutorial
12	7-Dec-2017		SLIP-Test-I
13	8-Dec-2017	II	OT-1, Names, variables, binding
14	11-Dec-2017		type checking, scope, scope rules,
15	13-Dec-2017		Tutorial
16	14-Dec-2017		lifetime and garbage collection ,primitive data types
17	15-Dec-2017		strings, array types, associative arrays
18	16-Dec-2017		record types, union types
19	18-Dec-2017		pointers and references, Arithmetic expressions
20	20-Dec-2017		Tutorial
21	21-Dec-2017		overloaded operators, type conversions
22	22-Dec-2017		relational and boolean expressions, assignment statements
23	23-Dec-2017		mixed mode assignments,control structures – selection
24	27-Dec-2017		Tutorial
25	28-Dec-2017		iterations, branching
26	29-Dec-2017		guarded Statements
27	30-Dec-2017		SLIP-Test-II
28	1-Jan-2018	III	OT-2,Subprograms,
29	3-Jan-2018		Tutorial
30	4-Jan-2018		design issues, local referencing
31	5-Jan-2018		parameter passing, overloaded methods
32	6-Jan-2018		generic methods, design issues for functions
33	8-Jan-2018		semantics of call and return,implementing simple subprograms
34	10-Jan-2018		Tutorial
35	11-Jan-2018		stack and dynamic local variables
36	12-Jan-2018		nested subprograms,dynamic scoping
37	18-Jan-2018		Tutorial
38	19-Jan-2018	MID-I	revision of previous question papers
39	20-Jan-2018		revision of previous question papers
40	21-Jan-2018		revision of previous question papers
41	23-Jan-2018		revision of previous question papers
42	24-Jan-2018	IV	Object – orientation
43	25-Jan-2018		design issues for OOP languages
44	27-Jan-2018		implementation of object oriented constructs
45	29-Jan-2018		Concurrency
46	31-Jan-2018		Tutorial
47	1-Feb-2018		Semaphores,Monitors,message passing
48	2-Feb-2018		Threads
49	3-Feb-2018		statement level concurrency

50	5-Feb-2018		exception handling
51	7-Feb-2018		Tutorial
52	8-Feb-2018		event handling
53	9-Feb-2018		SLIP-TEST-III
54	10-Feb-2018	V	OT-3,Introduction to lambda calculus
55	14-Feb-2018		Tutorial
56	15-Feb-2018		fundamentals of functional programming languages
57	16-Feb-2018		Programming with Scheme
58	17-Feb-2018		Programming with Scheme,
59	19-Feb-2018		Programming with ML
60	21-Feb-2018		Tutorial
61	22-Feb-2018		REVISION
62	23-Feb-2018		SLIP-TEST-IV
63	24-Feb-2018		VI
64	26-Feb-2018	logic programming languages	
65	28-Feb-2018	Tutorial	
66	1-Mar-2018	Introduction to logic and logic programming,	
67	3-Mar-2018	Programming with Prolog	
68	5-Mar-2018	multi - paradigm languages	
69	7-Mar-2018	Tutorial	
70	8-Mar-2018	REVISION	REVISION
71	9-Mar-2018		REVISION
72	12-Mar-2018		REVISION
73	14-Mar-2018		REVISION
74	15-Mar-2018		REVISION
75	16-Mar-2018		REVISION
76	17-Mar-2018		REVISION
77	19-Mar-2018		MID-II
78	21-Mar-2018	Tutorial	
79	22-Mar-2018	revision of previous question papers	
80	23-Mar-2018	revision of previous question papers	
81	24-Mar-2018	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

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