

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

Lecture Schedule

Subject : PRINCIPLES OF PROGRAMMING LANGUAGES Year II CSE- C-II SEM
 Name of the Faculty: Dr.D.N.V.Syam Kumar Academic Year:2018-19
 No of Classes per week: 5+1*(Tutorial)

| S.NO | DATE | UNIT | TOPIC |
|------|------------|------|--|
| 1 | 19-11-2018 | I | Introduction |
| 2 | 20-11-2018 | | Evolution of programming languages |
| 3 | 22-11-2018 | | Evolution of programming languages |
| 4 | 23-11-2018 | | describing syntax |
| 5 | 23-11-2018 | | context free grammars |
| 6 | 24-11-2018 | | attribute grammars |
| 7 | 26-11-2018 | | describing semantics |
| 8 | 27-11-2018 | | lexical analysis |
| 9 | 29-11-2018 | | parsing |
| 10 | 29-11-2018 | | Tutorial |
| 11 | 30-11-2018 | | recursive - decent bottom - up parsing |
| 12 | 1-12-2018 | | recursive - decent bottom - up parsing |
| 13 | 3-12-2018 | | UNIT TEST-I |
| 14 | 4-12-2018 | II | Names, variables |
| 15 | 6-12-2018 | | binding, type checking |
| 16 | 7-12-2018 | | scope, scope rules |
| 17 | 7-12-2018 | | Tutorial |
| 18 | 8-12-2018 | | lifetime and garbage collection |
| 19 | 10-12-2018 | | primitive data types |
| 20 | 11-12-2018 | | strings, array types |
| 21 | 13-12-2018 | | associative arrays, record types |

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| 22 | 14-12-2018 | | union types, pointers and references, |
| 23 | 14-12-2018 | | Tutorial |
| 24 | 15-12-2018 | | Arithmetic expressions |
| 25 | 17-12-2018 | | overloaded operators, type conversions |
| 26 | 18-12-2018 | | relational and Boolean expressions, assignment statements |
| 27 | 20-12-2018 | | mixed mode assignments, control structures – selection, |
| 28 | 21-12-2018 | | iterations, branching, guarded Statements |
| 29 | 21-12-2018 | | Tutorial |
| 30 | 22-12-2018 | | UNIT TEST-II |
| 31 | 27-12-2018 | | Subprograms, design issues, |
| 32 | 28-12-2018 | | local referencing, parameter passing |
| 33 | 28-12-2018 | III | Tutorial |
| 34 | 29-12-2018 | | overloaded methods |
| 35 | 31-12-2018 | | generic methods |
| 36 | 3-01-2019 | | design issues for functions |
| 37 | 4-01-2019 | | semantics of call and return |
| 38 | 4-01-2019 | | Tutorial |
| 39 | 5-01-2019 | MID-I | implementing simple subprograms |
| 40 | 7-01-2019 | | stack and dynamic local variables |
| 41 | 8-01-2019 | | nested subprograms |
| 42 | 10-01-2019 | | blocks, dynamic scoping |
| 43 | 11-01-2019 | | REVISION |
| 44 | 11-01-2019 | IV | Tutorial |
| 45 | 17-01-2019 | | MID-I EXAM |
| 46 | 18-01-2019 | | MID-I EXAM |

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| 47 | 18-01-2019 | | Tutorial |
| 48 | 19-01-2019 | | MID-I EXAM |
| 49 | 21-01-2019 | | MID-I EXAM |
| 50 | 22-01-2019 | | MID-I EXAM |
| 51 | 24-01-2019 | | Object – orientation |
| 52 | 25-01-2019 | | design issues for OOP languages |
| 53 | 25-01-2019 | | Tutorial |
| 54 | 28-01-2019 | | implementation of object oriented constructs |
| 55 | 29-01-2019 | | implementation of object oriented constructs |
| 56 | 31-01-2019 | | concurrency |
| 57 | 1-02-2019 | | semaphores |
| 58 | 1-02-2019 | | Tutorial |
| 59 | 2-02-2019 | | Monitors, message passing |
| 60 | 4-02-2019 | | threads, statement level concurrency |
| 61 | 5-02-2019 | | threads, statement level concurrency |
| 62 | 7-02-2019 | | exception handling |
| 63 | 8-02-2019 | | exception handling |
| 64 | 8-02-2019 | | Tutorial |
| 65 | 11-02-2019 | | event handling |
| 66 | 12-02-2019 | | UNIT TEST-IV |
| 67 | 14-02-2019 | | Introduction to lambda calculus |
| 68 | 15-02-2019 | | Introduction to lambda calculus |
| 69 | 15-02-2019 | v | Tutorial |
| 70 | 16-02-2019 | | fundamentals of functional programming languages |
| 71 | 18-02-2019 | | fundamentals of functional programming languages |

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| 72 | 19-02-2019 | | fundamentals of functional programming languages |
| 73 | 21-02-2019 | | Programming with Scheme |
| 74 | 22-02-2019 | | Programming with ML |
| 75 | 22-02-2019 | | Tutorial |
| 76 | 23-02-2019 | | Programming with ML |
| 77 | 25-02-2019 | | UNIT TEST-V |
| 78 | 26-02-2019 | | Introduction to logic and logic programming |
| 79 | 28-02-2019 | | Introduction to logic and logic programming |
| 80 | 1-03-2019 | | Programming with Prolog |
| 81 | 1-03-2019 | | Tutorial |
| 82 | 2-03-2019 | | Programming with Prolog |
| 83 | 5-03-2019 | | Programming with Prolog |
| 84 | 7-03-2019 | | multi - paradigm languages |
| 85 | 8-03-2019 | | multi - paradigm languages |
| 86 | 8-03-2019 | | Tutorial |
| 87 | 11-03-2019 | | OLD QP REVISION |
| 88 | 12-03-2019 | | OLD QP REVISION |
| 89 | 14-03-2019 | | OLD QP REVISION |
| 90 | 15-03-2019 | | OLD QP REVISION |
| 91 | 15-03-2019 | | Tutorial |
| 92 | 16-03-2019 | | OLD QP REVISION |
| 93 | 18-03-2019 | | OLD QP REVISION |
| 94 | 19-03-2019 | | OLD QP REVISION |
| 95 | 22-03-2019 | | OLD QP REVISION |
| 96 | 22-03-2019 | | Tutorial |

VI
REVISION
MID-II

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| 97 | 23-03-2019 | OLD QP REVISION |
| 98 | 25-03-2019 | MID-II EXAM |
| 99 | 26-03-2019 | MID-II EXAM |
| 100 | 28-03-2019 | MID-II EXAM |
| 101 | 29-03-2019 | MID-II EXAM |
| 102 | 29-03-2019 | Tutorial |
| 103 | 30-03-2019 | MID-II EXAM |

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