NM INSTITUTE OF ENGINEERING & TECHNOLOGY

APPROVED BY AICTE, NEW DELHI, AFFILIATED TO BPUT, ODISHA
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
PROGRAMMING FOR PROBLEM SOLVING USING C

SUBJECT CODE: RPL2B201   **SEMESTER: 2nd**

Course Outcomes	
Students will be able to:	
CO1	Understand the concept of the C programming language
CO2	Develop algorithms to solve simple to complex problems using C
CO3	Develop the programs array in C
CO4	Explain about structure
CO5	Develop file handling programs
CO6	Develop insertion and searching technique

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
OBJECT ORIENTED PROGRAMMING USING JAVA
SUBJECT CODE: ROP3B201   SEMESTER: 3rd

Course Outcomes	
Students will be able to:	
CO1	Describe translators and data type
CO2	Describe basic control statements
CO3	Explain the correlation between object and class
CO4	Determine inheritance and wrapper classes to achieve code reusability
CO5	Perform web applications using applets and collection framework
CO6	Design and create GUI based event driven programs using swing

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Education for a World Stage
Estd. 2004

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
DATA STRUCTURE LAB

SUBJECT CODE: RCS3C202 **SEMESTER: 3RD**

Course Outcomes	
Students will be able to:	
CO1	Apply the concept of data structure to implement the primitive operations of linear data structure
CO2	Evaluate infix, prefix and postfix expressions using linear data structure
CO3	Demonstrate types of linked list using dynamic memory allocation
CO4	Implement various sorting techniques using relevant data structure
CO5	Perform basic operations on nonlinear data structure on tree traversal techniques
CO6	Implement various searching techniques using relevant data structure

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
DESIGN AND ANALYSIS OF ALGORITHMS LAB

SUBJECT CODE: RCS4C202 **SEMESTER: 4TH**

Course Outcome:	
Students will be able to	
CO1	Analyze how to divide large complex problem (analysis)
CO2	Construct the BFS, DFS graphs and connected components with backtracking
CO3	Construct and develop algorithms using backtracking (synthesis)
CO4	Apply different designing methods development of algorithms using greedy method
CO5	Apply the dynamic programming method on the graphs for getting optimal path
CO6	Apply Branch and Bound method on the problems (application)

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
COMPUTER ORGANISATION ARCHITECTURE LAB

SUBJECT CODE: RCS4C203   **SEMESTER: 4TH**

Course Outcome:	
Students will be able to	
CO1	Explain the hardware components that make computer hardware
CO2	Develop installation, configuration and upgrading of microcomputer hardware and software
CO3	Analyze different types of byte addressing instruction using 8085 simulator
CO4	Design of digital circuits (H/A, F/A, Decoder & Encoder) in VHDL using active VHDL
CO5	Design and implement program for IEEE-754 floating point representation addressing modes, instruction set
CO6	Design and implement to perform signed bit multiplication using Booth's algorithm

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
PYTHON PROGRAMMING LAB

SUBJECT CODE: RCS4C201   **SEMESTER: 4TH**

Course Outcome:	
Students will be able to	
CO1	Examine Python syntax and semantics and be fluent in the use of Python flow control and functions
CO2	Demonstrate proficiency in handling Strings and File Systems
CO3	Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and use Regular Expressions
CO4	Interpret the concepts of Object-Oriented Programming as used in Python
CO5	Implement exemplary applications related to Network Programming, Web Services and Databases in Python
CO6	Create a project using Python

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
DATABASE MANAGEMENT SYSTEM LAB

SUBJECT CODE: RRCS5C202   **SEMESTER: 5TH**

Course Outcome:	
Students will be able to	
CO1	Illustrate the basic DDL command
CO2	Illustrate the DCL and DML command
CO3	Demonstrate SQL queries using SQL operators
CO4	Explain the concept of relational algebra
CO5	Implement various queries using date and group functions and elaborate nested queries
CO6	Develop solutions using database concepts for real time requirements

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

FORMAL LANGUAGES & AUTOMATA THEORY LAB
SUBJECT CODE: RCS5C201   **SEMESTER: 5TH**

Course Outcome:	
Students will be able to	
CO1	Understand the abstract model of finite automation/ automaton
CO2	Implement the conversions of finite automaton
CO3	Design the abstract model of Push Down Automaton
CO4	Evaluate the parsing algorithm for some specific context free grammars
CO5	Analyze abstract model of turing machine and the power to recognize the language
CO6	Explain the application of machine models

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

OPERATING SYSTEM LAB

SEMESTER: 5TH   **SUBJECT CODE: RCS5C203**

Course Outcome:	
Students will be able to	
CO1:	Understand the various UNIX commands
CO2:	Implement various page replacement algorithms
CO3:	Explain the process of system calls
CO4:	Apply the various shell programming
CO5:	Implement various disk scheduling algorithms
CO6	Implement various CPU scheduling algorithms

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COMPILER DESIGN LAB

SEMESTER: 6TH   **SUBJECT CODE: RCS6C202**

Course Outcome:	
Students will be able to	
CO1	Understand the working of lex and Yacc compiler for debugging programs.
CO2	Understand and define the role of lexical analyzer, use of regular expression and transition diagrams
CO3	Understand and use Context free grammar, and parse tree construction
CO4	Earn & use the new tools and technologies used for designing a compiler
CO5	Develop program for solving parser problems
CO6	Learn how to write programs that execute faster

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

SOFTWARE ENGINEERING

SEMESTER: 6TH   **SUBJECT CODE: RCS6C201**

Course Outcome:	
Students will be able to	
CO1	Identify strong fundamental knowledge in science, mathematics, fundamentals of computer science, software engineering and multidisciplinary engineering to begin in practice as a software engineer. [Level -1 Knowledge]
CO2	Design applicable solutions in one or more application domains using software engineering approaches. [Level -1Synthesis]
CO3	Create quality software products and demonstrating effective and modern working strategies. [Level -5Synthesis]
CO4	Apply new software models, techniques and technologies to bring out innovative and novelistic solutions for the growth of the society [Level -3Application]
CO5	Develop an awareness of the role and responsibilities of the professional software engineer; [Level -5 Synthesis]
CO6	List skills to think about problems and their solutions using appropriate methods of analysis and design; [Level -1 Knowledge]