



Malad Kandivli Education Society's

NAGINDAS KHANDWALA COLLEGE (Autonomous)

Reaccredited by NAAC with 'A' Grade (3rd Cycle) | ISO 9001:2015 Certified

PROGRAMME NAME: Bachelor of Science in Information Technology (B. Sc. IT)

PROGRAMME CODE: USIT

PROGRAMME OUTCOME-

This programme of B Sc IT is structured to provide graduates with practical skills required in software development and testing field. The main objectives of B Sc IT are:

- To provide intensive theoretical & practical knowledge
- To provide an integrated perspective of IT functioning along with a good amount of exposure to real life cases / technical knowhow.
- To train students with knowledge in the field of logical thinking, problem solving, software engineering and programming.
- To develop students' programming skills to become employable or to start their own entrepreneurial journey.

SEMESTER: I

COURSE NAME: COMMUNICATION SKILLS.

COURSE OUTCOME-

To develop effective listening skills in students so as to enable them to comprehend instructions and become a critical listener, effective oral skills so as to enable students to speak confidently interpersonally as well as in large groups, effective writing skills so as to enable students to write in clear, concise, persuasive and audience centered manner and to demonstrate effective use of communication technology

COURSE NAME –DISCRETE MATHEMATICS

COURSE OUTCOME-

This course is used to apply the rules of inference and methods of proof including direct and indirect proof forms, proof by contradiction, and mathematical induction. And Students will be able to work with sequences and recursion.

COURSE NAME -INTRODUCTION TO PROGRAMMING

COURSE OUTCOME-

To enhance the logical thinking, To develop problem solving skills, introduce the basic programming concepts

COURSE NAME – FUNDAMENTALS OF COMPUTERS AND ELECTRONICS

COURSE OUTCOME-

This course will initiate learners to deal with conversion between different number system. Learners will be able to minimize the given logical expression and create circuits. Learners will also be able to code using Assembly language.

COURSE NAME –OPERATING SYSTEMS

COURSE OUTCOME-

Analyse the structure of OS and basic architectural components involved in OS design, design the applications to run in parallel either using process or thread models of different OS, the various device and resource management techniques for timesharing and distributed

systems, Understand the Mutual exclusion, Deadlock detection and agreement protocols of Distributed operating system, Conceptualize the components involved in designing a contemporary OS

COURSE NAME – WEB PROGRAMMING-I

COURSE OUTCOME-

Apply a structured approach to identifying needs, interests, and functionality of a website, Design dynamic websites that meet specified needs and interests, select appropriate HTML, CSS, and JavaScript code from public repositories of open-source and free scripts that enhances the experience of site visitors, modify existing HTML, CSS, and JavaScript code to extend and alter its functionality, and to correct errors and cases of poor practice.

SEMESTER: II

COURSE NAME: PROGRAMMING AND APPLICATION DEVELOPMENT IN PYTHON

COURSE OUTCOME-

Understanding of UI Applications using Python Tkinter, to acquire knowledge of Database Connection with Python Application, Understanding File Operations and developing Web Applications and Network Connectivity Applications

COURSE NAME: OBJECT ORIENTED PROGRAMMING

COURSE OUTCOME-

The students will learn take a problem and develop the structures to represent objects and the algorithms to perform operations, apply standards and principles to write truly readable code, test a program and, if necessary, find mistakes in the program and correct them, learn the fundamentals of input and output using the java.io library, design a class that serves as a program module or package, understand and demonstrate the concepts of object-oriented design, polymorphism, information hiding, and inheritance

COURSE NAME: DATABASE MANAGEMENT SYSTEMS I

COURSE OUTCOME-

Understanding techniques for building robust business application

COURSE NAME: WEB PROGRAMMING II

COURSE OUTCOME-

At the end of this course the successful student will be able to apply a structured approach to identifying needs, interests, and functionality of a website, design dynamic websites that meet specified needs and interests,select appropriate HTML, CSS, and JavaScript code from public repositories of open-source and free scripts that enhances the experience of site visitors, modify existing HTML, CSS, and JavaScript code to extend and alter its functionality, and to correct errors and cases of poor practice.

COURSE NAME: DISCRETE MATHEMATICS II

COURSE OUTCOME-

Students completing this course will be able to find a mathematical solution to the problems and will be able to link the mathematical concepts with application in the computing domain.

COURSE NAME: IT platforms, Tools and Practices

COURSE OUTCOME-

Students completing this course will be able to follow the industry standards and practices in coding and their employability will be increased.

SEMESTER: III

COURSE NAME: PYTHON PROGRAMMING

COURSE OUTCOME-

To acquire knowledge of writing basic use of Python Datatypes and Statements, understanding of UI Applications using Python's TKinter, knowledge of Database Connection with Python Application, understanding File Operations.

COURSE NAME: DATA STRUCTURES

COURSE OUTCOME-

Students will gain knowledge for different data structure and algorithm complexities.

COURSE NAME: COMPUTER NETWORKS

COURSE OUTCOME-

Learner will be able to understand data communication and networking concepts thoroughly and will be acquainted with knowledge about common equipment, standard hardware and software requirements and communication protocols which are important for them to proceed with industrial requirements

COURSE NAME: DATABASE MANAGEMENT SYSTEM

COURSE OUTCOME-

Understanding techniques for building robust business application.

COURSE NAME: APPLIED MATHEMATICS

COURSE OUTCOME-

Students will be able to apply the knowledge in diverse computing domains

SEMESTER: IV

COURSE NAME: CORE JAVA

COURSE OUTCOME-

The student will be able to understanding fundamentals of Java, knowledge about packages and implementing Multithreading concept in Java, understanding and implementing networking and I/O using Java, knowledge and implementation of GUI components and database connectivity.

COURSE NAME: INTRODUCTION TO EMBEDDED SYSTEM

COURSE OUTCOME-

Foster ability to understand the internal architecture and interfacing of different peripheral devices with Microcontrollers, to write the programs for microcontroller, to understand the role of embedded systems in industry, to understand the design concept of embedded systems

COURSE NAME: COMPUTER ORIENTED STATISTICAL TECHNIQUES

COURSE OUTCOME-

Students completing this course will be able to do the data analysis and testing of hypothesis

COURSE NAME: SOFTWARE ENGINEERING

COURSE OUTCOME-

Ability to gather and specify requirements of the software projects, to analyse software requirements with existing tools, to understand and apply the basic project management practices in real life projects.

COURSE NAME: COMPUTER GRAPHICS AND ANIMATION

COURSE OUTCOME-

Student will be able to understand basic knowledge of transformation and image processing.

SEMESTER: V

COURSE NAME: SOFTWARE PROJECT MANAGEMENT

COURSE OUTCOME-

Student will be able to design basic modules of a project

COURSE NAME –INTERNET OF THINGS

COURSE OUTCOME-

Students will be able to work on Hardware circuits and also to create a mini-project based on IoT

COURSE NAME -ADVANCED WEB PROGRAMMING

COURSE OUTCOME-

The students will be able to learn partial refreshes of web pages using ajax

COURSE NAME – ARTIFICIAL INTELLIGENCE

COURSE OUTCOME-

Demonstrate knowledge of the building blocks of AI as presented in terms of intelligent agents, analyse and formalize the problem as a state space, graph, design heuristics and select amongst different search or game-based techniques to solve them, to develop intelligent algorithms for constraint satisfaction problems and also design intelligent systems for Game Playing

COURSE NAME – ENTERPRISE JAVA

COURSE OUTCOME-

Understanding of GUI components using Java EE architecture, knowledge of servlets, JSP, EJB, Hibernate and their implementation, basic understanding of JavaBean, Web services.

SEMESTER: VI

COURSE NAME: SOFTWARE QUALITY ASSURANCE

COURSE OUTCOME-

Student will be able to develop test cases and test a project

COURSE NAME: SECURITY IN COMPUTING

COURSE OUTCOME-

At the end of the course, the students have firm understanding on basic terminology and concepts related to network and system level security, basics of computers and networking including Internet Protocol, routing, Domain Name Service, and network devices

PROGRAMME NAME: Bachelor of Science in Information Technology (B. Sc. IT)
PROGRAMME CODE: USIT

COURSE NAME - BUSINESS INTELLIGENCE

COURSE OUTCOME-

Students will be able to apply the acquired knowledge in diverse business and computing domains.

COURSE NAME – PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS

COURSE OUTCOME-

At the completion of the course, students will have a basic, practical understanding of GIS concepts, techniques and real-world applications, know how GIS is utilized in the larger context of business needs and IT strategies, have an ability to perform basic GIS analysis of concepts, have demonstrated a practical application using basic GIS tools.

COURSE NAME – IT SERVICE MANAGEMENT

COURSE OUTCOME-

Students will understand ITIL Framework and its components



PRINCIPAL.

NAGINDAS KHANDWALA COLLEGE OF COMMERCE
ARTS & MANAGEMENT STUDIES AND SHANTABEN
NAGINDAS KHANDWALA COLLEGE OF SCIENCE
MALAD (W), MUMBAI-400 064.