Nutan Maharashtra Vidya Prasarak Mandal's (NMVPM's)
NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING AND TECHNOLOGY (NMIET)
Under Administrative Support - Pimpri Chinchwad Education Trust (PCET)

ESTD : 1906

Approved by AICTE	Accredited by NAAC	Affiliated to SPPU

Department of Computer Engineering

Report for Event Organized
AY. 2019-20

Date: 12/12/2019

Title of Activity – A Value Added Course of 5 days' by experts on Java Programming.

Objective of Activity: -

1.   To make engineering students aware about the importance and the role of java programming in the development of various applications.
2.   To develop the ability to use java programming features in development of various web, desktop, mobile applications.
3.   To expose students to the right understanding of java features to build projects.

Number of Student/Faculty Involved: - 147
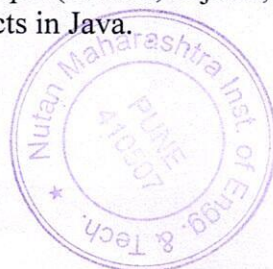
Brief Description of Activity:

Mrs. Madhavi Patil from DYP SOE, Ambi conducted a hands-on Session for Computer Engineering students. Following topics covered during the session:

Introduction to Java:
- Overview of Java programming language.
- Setting up Java development environment (JDK, IDE, etc.).
- Writing and running a basic Java program.
- Variables, Data Types, and Operators:
- Declaring and initializing variables.
- Primitive data types and their uses.
- Arithmetic, assignment, comparison, and logical operators.
- Control Flow and Looping:
- Conditional statements (if, else-if, switch-case).
- Looping constructs (for, while, do-while).
- Break and continue statements.
- Arrays and Strings:
- Declaring and using arrays.
- Array traversal and manipulation.
- String manipulation and common string operations.
- Object-Oriented Programming (OOP) Basics:
- Introduction to OOP concepts (classes, objects, inheritance, polymorphism).
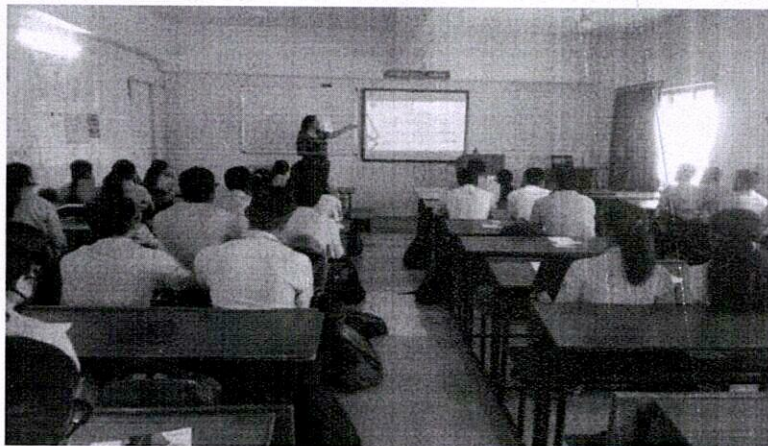- Defining classes and objects in Java.

Principal
Nutan Maharashtra Institute
of Engg. & Technology
"Samarth Vidya Sankul" Vishnupuri
Talegaon Dabhade, 410507

- Encapsulation, inheritance, and method overriding.
- Exception Handling:
- Handling and throwing exceptions.
- Try-catch blocks and finally clause.
- Custom exception classes.
- File Handling and Input/Output:
- Reading from and writing to files.
- Working with streams and readers/writers.
- Exception handling in file operations.
- Generics and Collections:
- Introduction to generics and type parameters.
- Using built-in collection classes (ArrayList, LinkedList, HashMap, etc.).
- Iterating and manipulating collections.
- Multithreading:
- Understanding threads and concurrency.
- Creating and managing threads in Java.
- Synchronization and thread safety.
- Java APIs and Advanced Topics:
- Working with Java libraries and APIs (java.util, java.io, etc.).
- Introduction to Java Database Connectivity (JDBC).
- Overview of advanced topics like JavaFX, networking, and web development with Java.

Outcome Achieved: - PSO2, PO2, PO3, PO4, PO5, PO6, PO8, PO11

Photos/Flyer:

Program Coordinator

Principal