

	Nutan Maharashtra Vidya Prasarak Mandal's		 ESTD - 1906
	NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING AND TECHNOLOGY		
	Under Administrative Support - Pimpri Chinchwad Education Trust		
Approved by AICTE	Accredited by NAAC	Affiliated to SPPU	
"Samarth VidyaSankul", Vishnupuri, TelegaonDabhade, Taluka Maval, District Pune - 410507			
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Schedule of Code Genesis: OOP in C++ and Java

20/10/2022	Day 1(9 Hrs)	Session 1: Introduction to Object-Oriented Programming
		<ul style="list-style-type: none"> • What is OOP? • Key concepts: classes, objects, inheritance, polymorphism, encapsulation. • Advantages of OOP.
		Session 2: Basics of C++
		<ul style="list-style-type: none"> • Setting up the development environment (IDE, compiler). • Syntax and structure of C++ programs. • Variables, data types, and operators. • Control flow statements: if, else, loops.
		Session 3: Classes and Objects
		<ul style="list-style-type: none"> • Defining classes and objects in C++. • Constructors and destructors. • Access specifiers: public, private, protected. • Member functions and data members.
		Session 4: Hands on Session on C++
21/10/2022	Day 2(9 Hrs)	Session 5: Inheritance and Polymorphism
		<ul style="list-style-type: none"> • Inheritance and its types. • Polymorphism: function overloading and overriding. • Virtual functions and abstract classes.
		Session 6: Pointers and Memory Management
		<ul style="list-style-type: none"> • Pointers and references in C++. • Dynamic memory allocation and deallocation. • Memory management best practices.
		Session 7: Introduction to Java

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		<ul style="list-style-type: none"> • History and overview of Java. • Setting up Java Development Kit (JDK) and Integrated Development Environment (IDE). • Syntax and structure of Java programs. • Differences between C++ and Java.
		Session 8: Hands on Session on C++
22/10/2022	Day 3 (9 Hrs)	Session 9: Classes and Objects in Java
		<ul style="list-style-type: none"> • Defining classes and objects in Java. • Constructors and methods. • Access modifiers: public, private, protected.
		Session 10: Inheritance and Polymorphism in Java
		<ul style="list-style-type: none"> • Inheritance in Java. • Method overriding. • Interfaces and abstract classes.
		Session 11: Exception Handling
		<ul style="list-style-type: none"> • Handling exceptions in Java. • Try-catch blocks. • Custom exceptions.
		Session 12: Hands on Session on Java
23/10/2022	Day 4 (3 Hrs)	TEST on C++ and Java

