



Department of Information Technology
Innovative Teaching Methods

Activity Title	Seminar
Faculty Name/Department	HAMER SHIELD JM/IT
Mapped Course Name & Code	OOPS & CS3391
Date	
Benefitted Students (Year / Sem / Dept)	II year / 3 rd sem / B.Tech. Information Technology
Topic	Multithreading, Inheritance, OOPS Concepts
Description	Multithreading in Java allows developers to execute multiple threads (smaller units of a program) concurrently within a single application. This enables efficient utilization of CPU resources, making Java applications more responsive and capable of handling complex tasks. Java's multithreading capabilities are achieved through its Thread class and Runnable interface, allowing developers to create and manage threads easily. By carefully designing and synchronizing threads, Java developers can build responsive and efficient applications, making it a crucial aspect of modern Java programming. Inheritance in Java is a fundamental object-oriented programming concept that allows classes to inherit attributes and methods from other classes. It establishes a parent-child relationship, where a subclass (child) can inherit properties and behaviors from a superclass (parent). This promotes code reusability and the creation of hierarchical class structures. Subclasses can extend the functionality of their parent classes by adding new methods or overriding existing ones. Java's inheritance mechanism is a powerful tool for building modular and extensible code, enabling developers to design more efficient and organized applications.
Course Outcomes (CO)	CO2: understands the Concepts of Multithreading
Performance Indicator (PI)	1.4.1
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Activity Photos



Topics/ Questions: Thread Methods

- 1.What is Inheritance in Java?
- 2.What is super class and subclass?
- 3.How is Inheritance implemented/achieved in Java?
- 4.Can we extend (inherit) final class?
5. Differentiate between process and thread?
6. What do you understand by inter-thread communication?

Marks:

Group Name (if ITM is a group activity)	Reg No.	Topic /	Marks		Total
			(10)	(10)	
A	1 to 20	Inheritance	9	9	18
B	20 to 40	Multithreading	10	9	19
C	40 to 65	OOPS Concepts	10	9	19

Outcome:

- Ability to gain knowledge about Thread concepts.
- Understanding Java Thread Methods
- Implementing Multithreading using Runnable Interface