



## Department Of Information And Communication Technology

### Report On

### Participative Learning

#### SUBJECT: - MCA-109 Object Oriented Programming with JAVA

**Activity** : Group Discussion  
**Subject** : MCA-109 Object Oriented Programming with JAVA  
**Department** : Department of ICT  
**Faculty in Charge** : Ms .Bharti Aggarwal  
**Participants** : MCA- 1st year students  
**Date** : 11/12/2023

#### Objectives:

- Participants should gain a clear understanding of what exceptions are and how they are used to handle errors and exceptional conditions in software. This includes understanding the difference between checked and unchecked exceptions
- Discuss how exceptions propagate through the call stack and how different programming languages and frameworks handle exception propagation
- Discuss strategies for reporting and logging errors and exceptions in software systems. Explore best practices for logging exception information, including stack traces, error messages, timestamps, and contextual information..
- Explore different mechanisms for handling exceptions, such as try-catch blocks, exception filters, finally blocks, and exception chaining.
- Discuss the importance of educating developers about exception handling best practices and providing training and resources to help them effectively handle exceptions in their code.

#### Execution of Activity:

- Discussion began with the introduction of various types of Exception handling and continued with exploring the difference between each of them. Discussing real-world

applications and implications of exception handling can help participants understand how these concepts are applied in practice and to facilitate knowledge sharing and collaboration in the area of software error management.

### Learning Outcomes:

- Participants should develop a clear understanding of what exceptions are in programming, how they are generated, and why they are important in software development.
- Participants should learn about the various mechanisms available for handling exceptions in different programming languages, such as try-catch blocks, finally blocks, and throw statements.
- Participants should understand how exceptions propagate through the call stack and how different programming languages handle exception propagation. They should learn about the concept of stack unwinding and how it affects exception handling.
- Participants should examine real-world examples of exception handling in software systems and discuss how well they adhere to best practices. They should analyze the strengths and weaknesses of these examples and identify areas for improvement.
- A successful group discussion on exception handling should foster a collaborative learning environment. Participants should enhance their communication skills by actively engaging in discussions, asking questions, and articulating their thoughts. The exchange of experiences and insights among participants contributes to a richer understanding of the topic and promotes a collaborative approach to problem-solving in software development.

### Photograph:



### List of participants:

S.No.	Enroll.No.	Name
1	00117004423	Bhavya Choudhary
2	00217004423	Hitesh
3	35217004423	Harshit Bansal
4	70117004423	Himanshu Tyagi

*Bharti*

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**Subject Faculty**

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**HoD  
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