



GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY :: NELLORE
Department of Computer Science and Engineering

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Name of the Subject	Object Oriented Analysis Design and Testing (19A05503T)	Class:	III B. Tech I Sem A-Sec
Faculty Name	Sk Asiff	AY	2021-22
Regulation	R19	Batch	2019-23

PowerPoint presentation (PPT)

Introduction:

PowerPoint can be an effective tool to present material in the classroom and encourage student learning. You can use PowerPoint to project visuals that would otherwise be difficult to bring to class. For example, in Relationship Among Classes, a single PowerPoint presentation could project images of Relationship Among Classes and Objects, questions asking students about the topic, Relationship Among Classes related, that provides students with information that is visual, challenging, and engaging.

Advantages

Potential benefits of using presentation graphics include:

- Increasing visual impact
- Improving audience focus
- Providing annotations and highlights
- Analyzing and synthesizing complexities
- Enriching curriculum with interdisciplinary approach
- Increasing spontaneity and interactivity
- Increasing wonder

Topics:

- Relationship Among Classes and Objects

Objective of the activity:

- PPT increases the memory capacity of the mind and also helps students remember information for a long time

- A PowerPoint presentation can enhance the intellect of students
- This PPT method is create and manipulate simple slide shows with Relationship Among Classes and Objectsnotes and create slide presentations that include text, graphics, animation, and transitions employed to encourage student learning and increasing visual impact etc.

Execution Plan:

- Plan carefully for Designing PPT
- Know your audience
- Time your presentation
- Present the PPT in the classroom using ICT tool
- Speak comfortably and clearly
- Questions asking students about the topic.

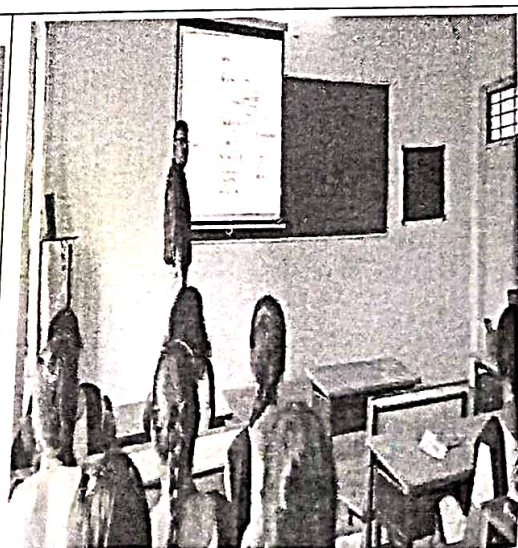
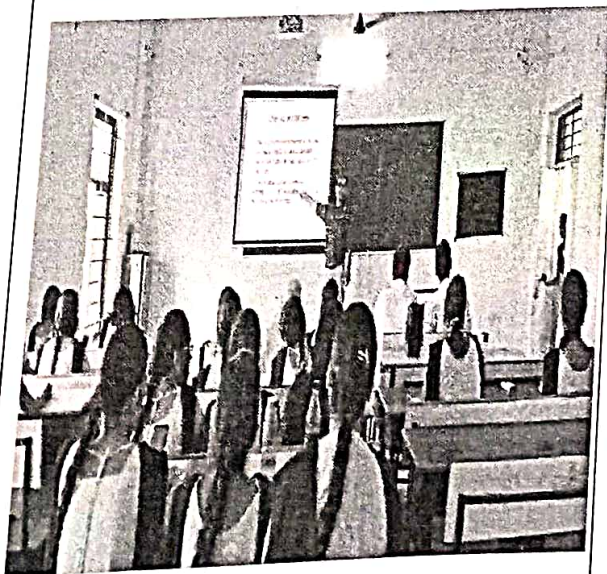
Expected Outcomes:

The students can be able to

- Understand the relationships among classes
- Understand therelationships among objects
- Builds self esteem in students

Enclosures:

Attached PPT's and Photos



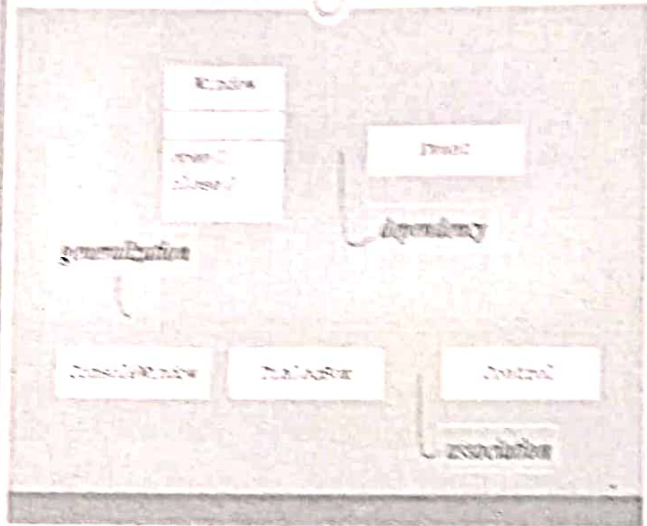
Overview

Relationships

- **Dependency**
- **Generalization**
- **Association**
- **Realization** (See below for this)

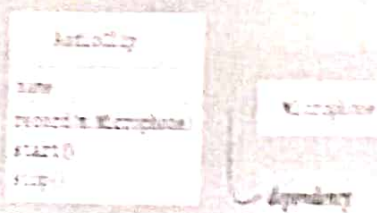
Modeling Techniques

Relationships & Kinds



Dependency

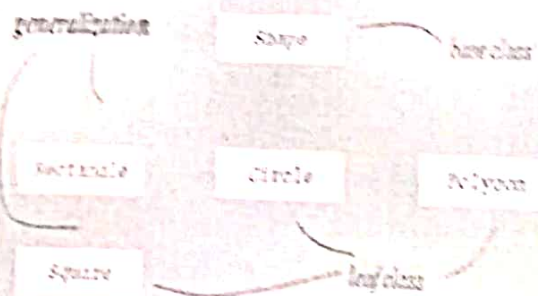
- A change in one thing may affect another.
- "Uses" relationship.
- May have a name, but not common.



On the right side of the diagram, there is a small box containing the text: "On the right side of the diagram".

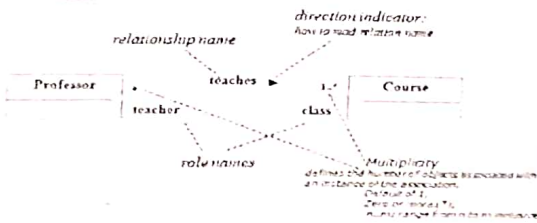
Generalization

- Relationship between general thing (parent) and more specific thing (child).
- Child is a kind of parent.
- Child inherits attributes and operations of parent.



Associations (UML)

- Represent conceptual relationships between classes



Associations - In Other OOAD

- Associations may be binary, ternary, or higher order



How are these represented in UML?

Associations – Links

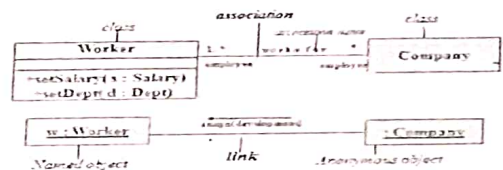
UML has links and associations whose ideas originate largely from OMT and also from Fusion to a certain extent

- OMT has links
 - link is a physical or conceptual connection between object instances. E.g., MyPet "is-accessible-to" by any user.
- OMT has association
 - describes a group of links with common structure and common semantics
- Inherently bi-directional
- Often implemented as pointers in programming languages

Distinction between link and association: link as OMT, (requirements modeling language) and association: physical connections are treated fully and uniformly as classes, and as associations are treated as instances.

Associations – UML Links

- link is a semantic connection among objects.
- A link is an instance of an association.



Important observations

- Students understood the basic concepts of relationships among classes and objects
- There must be good listening skills. Students understood the concepts while explaining the topics using PPT by the teacher.
- Very few students were not concentrating the PPT while explaining the topic.


Course Instructor