



3. Each function manipulates no more than one major data structure.
4. functions manipulate instances of abstract data types.
5. functions share global data selectively.

D6/V

### Verification:

- fundamental concept in s/w design.
- A design is verifiable if it can be demonstrated that the design will result in an implementation.
- Verification that the s/w reqs definition satisfies the customer's need.
- Verification that the design satisfies the requirements definition.
- The test plan must be coupled to specifications that are testable.

23/17/21  
D1/V

### Modular & Modularity:

- procedures
- Subroutines
- functions
- Data abstraction groups
- Utility groups
- Concurrent processes.

D1/V

### Coupling:

can be ranked on a scale of strongest to weakest

Types?

- 1) Content coupling
- 2) Common coupling

Top down integration starts with the main routine & one or two immediately subroutines in the system structure

- Requires the use of pgm stubs to stimulate the effort of lower-level routines.

Advantages:

1. Top-level interfaces are tested first.
2. Top-level routines provide a natural test harness for lower-level routines.

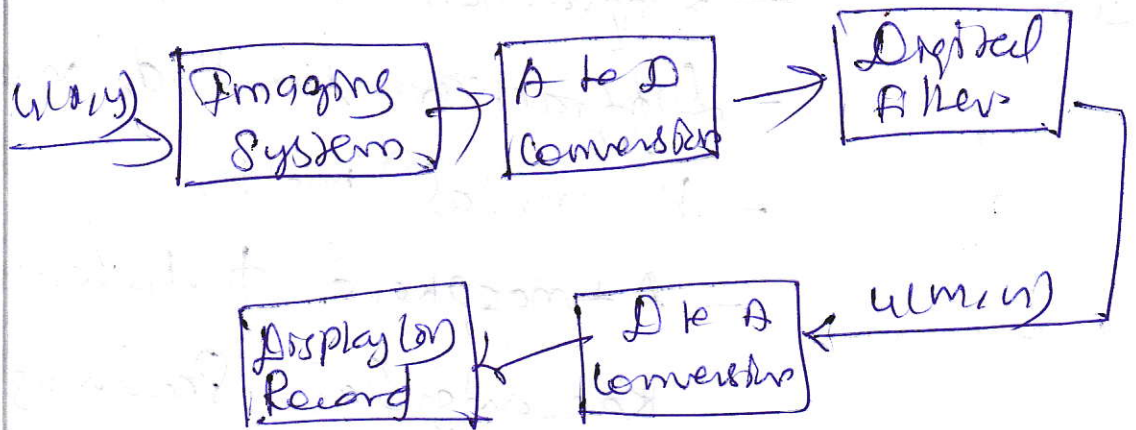
*1. D*  
*07/12/2021*  
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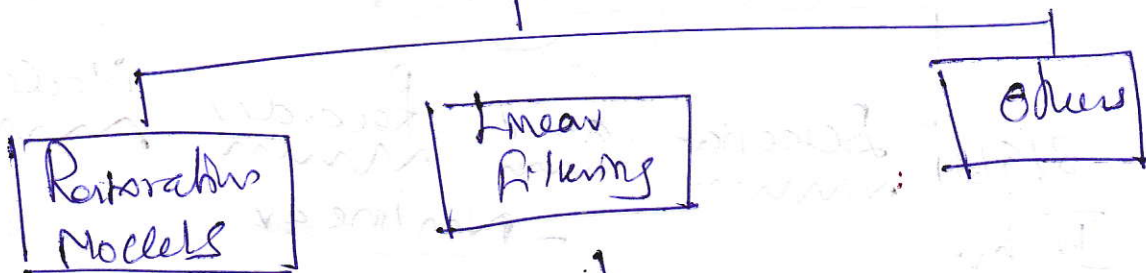




# 26/12/21) Digital Image Restoration System



## Image Restoration.



Restoration Models

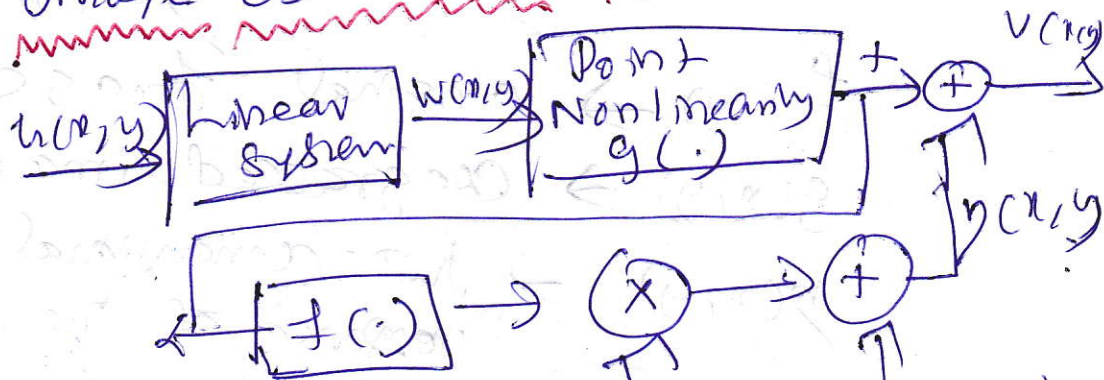
- Image Formulation Models
- Detected Recorder
- ~~Sampled~~ Noise Models
- Sampled Observation Model

Linear Filtering

- Inverse Wiener
- Spline Interpolation
- Least Square

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## Image Observation Models



30/9/2) Jackson Structured Programming  
- developed by Michael Jackson.

V

Three steps

- The Problem is modeled by specifying the input & output.
- The input & output models are converted into a structural model.
- Expanded into detailed design.

7/10/2) Design Guidelines.

W

- Review the requirements specification.
- Review and expand the external interfaces, user dialogues and formats developed during requirements analysis.
- Review and Refine the data flow diagram developed during requirements analysis and external design.

*f. k. s.*  
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Control statements

II BSc C  
A  
01/12/21  
v daysdel  
IK

- ↳ Busy
- ↳ selection statements
- ↳ IF
- ↳ IF --- else
- ↳ IF --- else IF
- ↳ Loop statements
- ↳ For
- ↳ while
- ↳ do --- while

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ent(1)

II BSc  
C  
01/12/21  
v daysdel  
IK

# Rules of the UML

IMSCS  
03/12/21  
II & III  
VI day order

- ↳ Names
- ↳ Scopes
- ↳ Visibility
- ↳ Integrity
- ↳ Execution

# Common Mechanisms in UML

IMSCS  
04/12/21  
II and  
III  
VI day order

- ↳ Specification
- ↳ Adornments
- ↳ Common Divisions
- ↳ Extensibility Mechanism

- ↳ class
- ↳ object class
- ↳ Attribute
- ↳ operation

# Notations of usecase

*Handwritten note in red ink*

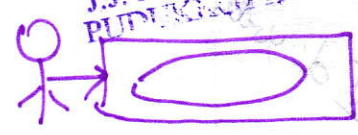
- ↳ Actor
- ↳ Usecase



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↳ use case diagram



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2

M. NITHYAKALYANI MEKALA

Notes of Lesson

July 2021 to Nov 2021

by

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il  
jk.

s

g'w


27/7/21  
III hr A  
IV hr B

- Logging on
  - My Computer
  - Icons
    - Printer ~~set~~ setting
  - Control
    - Dial up nw
    - Scheduled task
    - web folder Icon.

30/7/21  
III hr A  
IV hr B

- Network neighborhood
  - Link of all computers
    - Recycle Bin
    - Dial up nw

- Icons
  - Application Icons
  - Group items
  - Program item Icon.

  
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Find option  
Name, date, size, file type

Customization changing Background

11/12/21

# Inventory

## Stock

goto Gateway → Inventory Infn

- Stock groups
- Stock categories
- Stock items
- Unit of Measures
- Godowns
- Voucher types

- Stock

Single Stock Group

Multiple Stock Group

- Name
- Under
- Quantities of items to be added

31/12/21

Infn

- Input device
- Output device
- Files, folder

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Windows  
task bar

*J.P.* ✓  
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Date: 18/9/21 Day order: D2  
Class: III B & D Hours: 1st, 4th  
Topic: Web Server Control.

- \* Label Control
- \* TextBox Control
- \* Checkbox & Checkbox List Control
- \* Radio Button & Radio Button List Control
- \* Dropdown List Control
- \* HyperLink Control
- \* Table Control
- \* Image Control

Date 21/9/21 Day order: D3  
Class: III B & D Hours: 2nd, 4th.  
Topic: Web User Control.

- \* A User Control is a grouping of other Server Controls into a single - Container Control
- User Controls are Composite
- + User Controls Child Control.
- + User Control Registration.
- wide registration of user controls in web. Config.
- User Controls Properties.

Date: 23/9/21 Day order: D4  
Class: III B & D Hours: 2nd, 4th  
Topic: Master Pages

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- An ASP.net file with a Master file extension. A Master Page contains a layout that includes text HTML, & Server Controls.
- Master Language = "C#" Code File = "MasterPage.Master.cs"
- Inherits = "MasterPage" />

Date: 8/11/21

Class: IV B&D

Topic: ADO.NET and DetailsView

Dayorder: D,  
Hrs: 1<sup>st</sup>, 3<sup>rd</sup>

\* Introduction.

\* Example.

\* Row fields.

\* Binding to Data

*Handwritten initials: R.R. and V.P.*

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Operations

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