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Odd Semester 2022 - 2023

"Lesson plan"

	I	II	III	IV	V
I		III IT			
II			III IT		
III	III IT				
IV		III IT			
V			III IT		
VI			III IT		

III B.Sc I.T

Computer Networks

13.07.22

III hr

Dj

Layer Model

* well-defined functional units are called layer.

* Layers should be required some Protocols and Interfaces.

Protocols

* well-defined set of rules and regulations ~~are~~ between similer layers are called Protocol.

(ex) HTTP
TCP
IP
SMTP

Interfaces

* well-defined set of rules and regulations between disimilar layers are called Interface.

Datalink layer

* Data format is variable_size "frame".

* Each frame contain unique number source and destination physical address.

* This layer should be required flow control and ~~stress~~ Error_control algorithms.

22.07.22
D4
II hr

Network layer

* Data format is fixed_size 'packet'.

* Each packet contain Number, Source and Destination virtual Address.

* Required TCP / IP protocols.

Transport layer

* Data format is 'Segment'

* Required Routing and Congestion Control Algorithm.

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NOTES OF LESSON

Odd Semester

2022 - 2023

D \ H	1	2	3	4	5
D1		II BSc	II MSc	I MSc	II MSc
D2	II BSc	I MSc	II MSc		
D3	← I MSc →		II BSc		I MSc
D4		II MSc	← II BSc		→
D5	I MSc	II BSc	II MSc		I MSc
D6				II BSc	II MSc

II B.Sc IT

D \ H	1	2	3	4	5
D1	E	C++	T	A	DS
D2	C++	E	DS	T	A
D3	DS	VE	C++	A	T
D4	DS	E	←	IKS	→
D5	A	C++	E	T	DS
D6	A	E	T	C++	VE

1/7/22 DAY ORDER : I HOUR : 2

UNIT : 1 Introduction to Oop.

OOP → Object oriented programming

→ Procedural programming is about writing procedures.

→ While OOP is about Creating Objects that Contain both data and functions.

4/7/22 Day order : II HOUR : 1

Principles of OOP

(i) Software Crisis

Correctness, maintainability, Reusability, Openess, portability, Security, integrity and user-friendliness

(ii) Software evolution

Technics such as

* Modular programming
* Top down approach
* Bottom up approach
* Structural programming

(iii) POP

→ Conventional programming using high level language such as COBOL, CORBON & C.

But internet & web are valuable
have a variety of threats

→ Integrity
→ Confidentiality
→ denial of service
→ authentication

SSL

→ Transport layer Security Service
→ Subsequently became internet
Standard known as TLS
→ uses tcp to provide a reliable
end to end service

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Lesson plan

Odd Semester

2022 - 2023

D / H	1	2	3	4	5
I	BDA		DBMS		
II	DBMS			DBMS	BDA
III	BDA	VE	←	DBMS	LAB →
IV	II MSC ↔		BDA	DBMS	
V	↔	BDA	DBMS		DBMS
VI	← DTLAB	→	BDA		VE

DATE : 01.07.2022 DAY/ HOUR. I / III CLASS: III B.Sc I.T

UNIT-I BASIC CONCEPTS.

Database System.

Data:

In Computing the data is information that has been translated into a form, that is efficient for movement or processing.

Information:

The knowledge about a particular subject, issue, event or process.

* People uses information to seek meaning in a variety of situations
* It is organized or classified data, which has some meaningful values for the receiver.
* Information is the processed data on which decisions and actions are based.

For the decision to be meaningful, the processed data must qualify for the following characteristics

Timely:

Information should be available when required.

Accuracy:

Information should be accurate.

Completeness:

Information should be complete.

DATE : 04.07.22. DAY/HOUR : I & IV CLASS : III B.Sc I.T.

DATABASE: A database is an organized collection of structured information or data, typically stored electronically in a computer system.

DATE: 19.10.22 DAY/HOUR: IV/IV CLASS: II B.Sc (IT)

Normalization

* Introduction.
* Functional dependency.
* Fully functional Dependency.
* First, Second and Third Normal form.

DATE: 20.10.22 DAY/HOUR: V/III & IV CLASS: II BSc (IT)

Normalization

* BCNF
* Fourth Normal & Fifth Normal form

Revision.

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Lesson Plan

Odd Semester

2022 - 2023

	I	II	III	IV	V
I	III BSc	I MSc		III BSc	II BSc
II	I MSc		II BSc		III BSc
III	II BSc	III BSc			
IV	II BSc	I MSc		I MSc	III BSc
V	III BSc		I MSc	III BSc	II BSc
VI	III BSc		← I MSc Lab →		

1.7.2022
I | I

operating system:

* It is a collection of program modules.
* It act as an interface between user programs and Computer Hardware.

Main function of operating system:

* operating system is to control all equipments and resources.

Such as.
Memory, I/o devices, files etc.

1.7.2022
I | IV

Importance of operating systems:

* Computers are now being used in new fields
* Such as. automobile design, medical research, robotics, datamining. Cloud Computing etc.
* These fields require high performance Computers.
* High performance Computers are depending on operating system used in the system.

30/9/2022
I | I

Revision Topic:

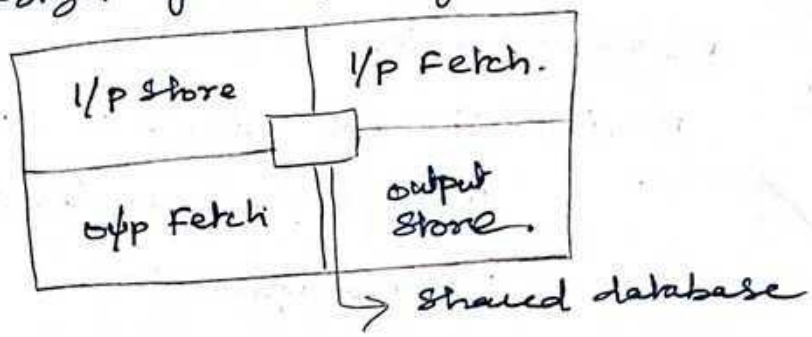
* I/O Scheduler and I/O device Handler.
* Example of I/O Scheduler.

(ICT class)

30/9/2022
I | IV

Revision Topic:

Design of the spooling system:



6.10.2022
II | V

Revision Topic:

⇒ Information management.

* Introduction.
* File operations.
* Example.

7.10.2022
III | II

Simple file System:

* File.
* Database.
* fikld.
* Record.

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Lesson Plan

odd semester

2022 - 2023

	1H	2H	3H	4H	5H
D1			I MSC	II MSC	I MSC
D2	II - M.Sc Lab ⟷			II MSc	I BSC
D3			II MSc	I MSC	II MSc
D4		II MSC Lab	I MSc	I BSC	II MSC
D5	⟵ I BSC		⟶	II MSC	⟶
D6	I MSC				I BSC

Unit - I

Introduction of Computer Network

1/7/22
I | 2

* Computer have made incredible progress in short time
* The old model of a single computer serving all of the organization in computational needs is rapidly being replaced by one in which a large amount of separate but interconnected computers do the job these system are called "computer Network".

Fr

features of computer Networks

4/7/22
II | 3

* communication speed
* file sharing
* Backup and Rollback
* Hardware software sharing
* security
* scalability
* Reliability

Fr

Uses of computer Networks

5/7/22
III | 1

- Business Application
- Home Application
- Mobile users
- Social Issues
- money saving
- Resource sharing
- Service provided by the Network for computer.

Fr

28/10/22
II | 3

Cloud Application Design Methodologies

* A cloud Application is softw that runs its processing logic and data storage between 2 differe system : client-side and server-side

* A cloud Application or cloud APP, is a software program where cloud Based and local components work together.

Three main phases

1) conceptual database design
2) Logical database design
3) physical database design.

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Dr. S. VASUKI

Assistant professor

Notes of Lesson Note.

(July 2022 - November 2022.)

Odd Semester 2022-23

D0	1	2	3	4	5
D1	I M.Sc I.T	II M.Sc I.T		I M.Sc I.T	III B.Sc I.T
D2		III B.Sc I.T	← I M.Sc I.T →		
D3		II M.Sc I.T	I M.Sc I.T	II M.Sc I.T	
D4	III B.Sc I.T			II M.Sc I.T	I M.Sc I.T
D5	← I M.Sc I.T	→		II M.Sc I.T	I M.Sc
D6		III B.Sc I.T		II M.Sc I.T	III B.Sc I.T

I M.Sc - Advanced I.T

II M.Sc - Pervasive I.T

III B.Sc - I.T

Java Programming (5) hrs

Computing (6) hrs

Visual programming (5) hrs

Total Theory Hours - 16

Total Practical Hours - 5

Class : II M.Sc I.T

Date : 01.07.22

DO : 01

Hour : II

Introduction to Pervasive Computing

- Networks
- Types of Network
- protocol
- WML
- Why pervasive Computing?
- Applications of pervasive Computing
  - i) Health Care
  - ii) Airline checkin
  - iii) Gps. Car Information.

Class : II M.Sc I.T

Date 05.07.22.

DO : 03

Hour :

II hr, IV hr

* Definition:

"Personal Computing and Internet Communication have fundamentally changed our way of working both at offices and at home."

* Scenarios of pervasive Computing

1. Automobile
2. Mobile workspace
3. Home
4. personal Communication environment

Overview.

Class : II M.SC I.T

Date : 20.10.22

Do : D1

Hour : Ihr

Characteristics of IRDA :-

- Frequency band.
- Transmitting Capability.
- Speech.
- Cost.

Second generation :

- Two and half generation for mobile system.
- Advantages of HSCSD overview.

Class : II M.SC I.T

Date : 21.10.22

Do : D6

Hour : IVhr.

3rd Generation :

- Mobile Internet protocol.
- Need home address.
- Care of address
- Register the Care of address.
- Tunnel the Care of address.
- Synchronization and replication protocol
- Strategies.
- Steps for special protocol.
- One Client one Server Sync
- Multiple Client - multiple Server Sync.

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Even Semester

2022 - 2023

Lesson plen

	1	2	3	4	5
D1			I A		
D2			I B	I A	
D3		I A		I B	
D4	I B				I A
D5				I B	
D6		I A		I B	

Unit I

12.12.22 III hr 'A' & 13.12.22 III hr 'B'

Data Structures

* To design the data
* To store the data
* To retrieve the data
* Types
  (i) Linear Data Structure
  (ii) Non-linear Data Structure
* ordered list
* Unordered list

Example

Array
Stack
Queue
linked list
Tree
Graph

13.12.22 IV hr 'A' & 14.12.22 IV hr 'B'

Algorithms

* finite set of instructions
* Step by Step process
* Procedure
* To perform a particular task
* Example
* Analysis

17.03.23
II hr
'A'

17.03.23
IV hr
'B'

File

* Collection of records are called file.

* Collection of fields are called Record.

* Query used to retrieval of data from database table.

* Types

(i) Sequential file

(ii) Random Access file

* Using index and index address for access.

* Example.

27/03/23

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Even Semester 2022 - 2023

NOTE OF LESSON

I MSc

D / H	1	2	3	4	5
D1		III IT	BC		I MSc
D2		I MSc	III IT	II IT	III IT
D3		III IT		III IT	II MSc
D4	III IT	I MSc		II IT	
D5		I MSc		III IT	BC
D6	I MSc		II MSc		III IT

II A
III B

15/12/22 IV DO — 1 Hr.

Variable

Variable is nothing it is just name of the memory location

* A Variable is a Container.

Rules

* variable starts with a dollar sign
* variable name must begin with a letter (A-Z, 0-9 a-z)
* A variable name should not contain space.

16/12/22 V DO — 4 Hr.

Local variables:

A variable declared in a function is considered local; that is, it can be referenced in that function. Any assignment outside of that function will be considered.

function variables:

Function parameters are declared after the function name in inside parentheses. They are declared much like a variable.

3/8/23 III DO — 1 Hr

Hit Counter using Session

```
<?php
Session_start();
if(isset($_SESSION['count']))
{
$_SESSION['count']=0;
}
else
{
$_SESSION['count']++;
}
echo $_SESSION['count'];
?>
```

portion Completed

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ACADEMIC YEAR 2022- 2023

EVEN SEMESTER

Lesson plan

	I	II	III	IV	V
I	IMSc		IIMSc	IMSc	IIBSc
II	IIBSc		IIBSc	IIBSc	
III	IMSc			IIMSc	IIBSc
IV	←	IIIBSc	→	IIIBSc	
V		IIIBSc	IIMSc	IMSc	IIIBSc
VI		IIBSc		IIBSc	

DATE : 13.12.2022 DAY/HOUR : 3/ 12 II CLASS : II B.Sc ST

Binary - to - Decimal Conversion. LCD.

Integers:

In a decimal number each digit position has a weight, each position has a weight, each digit position in a binary number has a value or weight.

In a binary number, the least significant digit (the rightmost one) has weight of 1. The second position from the right has a weight of 2, the next weight is 4, then 8, 16, 32.

32	16	8	4	2	1
2^5	2^4	2^3	2^2	2^1	2^0

EXAMPLES:

$(1\ 0\ 0)_2 = ?$

Binary Numbers 1 0 0

Positional weight 4 2 1

Decimal equivalent $1\times4 + 0\times2 + 0\times1$

$\Rightarrow 4 + 0 + 0 \Rightarrow 4$

$(1\ 1\ 0\ 0\ 1)_2 = ?$ 11001

Binary Numbers 1 1 0 0 1

Positional weight 16 8 4 2 1

Decimal equivalent $1\times16 + 1\times8 + 0\times4 + 0\times2 + 1\times1$

$\Rightarrow 16 + 8 + 0 + 0 + 1$

$\Rightarrow 25.$

Fractions:

In this case, the weights of digit positions to the right of the binary points are given by $1/2, 1/4, 1/8, 1/16$...

1/2	1/4	1/8	1/16.
2^{-1}	2^{-2}	2^{-3}	2^{-4}

of form validation to make sure that all form fields have data and that the data that has been entered into the form correctly.

DATE : 7.3.23 DAY/HOUR : IV / I & V CLASS : II B.Sc IT

Select Events:

A Select Event occurs when the visitor clicks on any of the contents of a form field selecting text in a text box or text area or choosing an option in a drop-down list will create a selection Event.

*Form validation prior to Submission:

Form validation used to occur at the server, after the client had entered all necessary data and then pressed the submit button.

*Enabling and Disabling form fields:

The most common time to disable a form field is after the form has been submitted but before the web's view changes. Disabling the submit button at this time will make it impossible for the user to submit the same information twice.

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Lesson plan

Even Semester

2022 - 2023

	I	II	III	IV	V
I	I A		I B		I M.Sc
II	I M.Sc	I A		I B	
III	←	I B.Sc 'A'	→	I A	I M.Sc
IV	I M.Sc		I A	I B	
V	I B		I M.Sc		I A
VI		I M.Sc	I A	I M.Sc	III B.Sc ↔

LCD

12.12.22 I | I | B

Number Systems and Codes:

The Binary No. System:

* only a two symbols.
* It is also called the base-2 number system
* A binary digit is also called a bit

13.12.2022 II | I | A

Binary to Decimal Conversion.

The positions of a Binary Number as follows.

32	16	8	4	2	1 .
2^5	2^4	2^3	2^2	2^1	2^0

Example:

$(1\ 0\ 1\ 0)_2$.

8 4 2 1

$\Rightarrow 1\times8 + 0\times4 + 1\times2 + 0\times1$

$\Rightarrow 10$.

12.12.2022 I | II & III | B

14.12.2022 III | I | A

Fraction:

$\frac{1}{2}$	. $\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$
2^{-1}	2^{-2}	2^{-3}	2^{-4}

$(0.101)_2$ 0 . 1 0 1

$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{8}$

$0.5 + 0 + 0.125 = 0.625$

ROM:

7.3.2023
V | II | B

It is a non volatile memory

The information store in in permanently.

17.3.2023
VI | IV | A

The Content of ROM are decided by the manufactor and permanantly store. at the time of manufacture.

Types of ROM:

* PROM
* EPROM
* EEPROM

23/3/23

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Lesson plan

Even Semester

2022 - 2023

	I	2	3	4	5
I	II BSc		I MSc VAC	III BSc	II MSc
II	III - B.Sc		I MSc	VAC I-BSc "A"	
III		II BSc	I MSc	II MSc	II BSc
IV	I MSc	VAC I.B.Sc "B"	III BSc		II BSc
V	II - BSc				NET I MSc
VI	III BSc		II BSc	I MSc	

15/12/22
IV | 5

Benefits of oop

* Real time System
* Simulation & modeling
* object-oriented database
* Hypertext, hypermedia, & expertext.
* Artificial Intelligence & expert System.

Application of oops

* Security
* Reusability
* Effective communication
* Developing complex software
* Easily upgraded
* maintenance & Efficiency.

19/12/22
VI | 3

Application of oop

* Real-time Systems
* Simulation and modelling
* object-oriented database
* Hypertext, hypermedia
* AI and expert systems
* Neural Networks
* CIM / CAD / CAD System.

concepts

* Database design
* SQL Language
* Relational database query and optimization
* Transactions
* Object-relational mapping.

---

features with os types

23/03/23
III | 3

* minimum Redundancy and Duplication.
* Reduced amount of space and money spent on storage.
* Data organization
* Customization of the Database
* Data retrieval
* usage of query Languages
* Multi user Access
* Data integrity is maintained
* Management of Metadata.
* Data Durability, etc.

• Android os, ubuntu, google chrome os, linux os

28/3/23

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Lesson plan

Even Semester

2022 - 2023

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Department of IT

Notes of Lesson Note.

Dec 2022 - April 2023.

Subjects.

1. Advanced Web Technology → I M.Sc I.T
2. Linux and Shell programming → II B.Sc I.T
3. Dot Net Technology → III B.Sc I.T

	I	II	III	IV	V
I	I M.Sc		I M.Sc	II B.Sc	
II	III B.Sc		III B.Sc	I M.Sc	III B.Sc
III	III B.Sc	I M.Sc		II B.Sc	I M.Sc
IV	I M.Sc	III B.Sc		I M.Sc	
V	III B.Sc		I M.Sc		III B.Sc
VI		I M.Sc		III B.Sc	

Do: 01 Hour: II

Date: 12.12.22 Class: IMSc I.T

Introduction to Web Design:

- Types of Web Pages.
- HTML
  - Introduction
  - Types of HTML Tag
    - 1. Singular Tag.
    - 2. Paired Tag.
  - How to Create Web page Using Html ?
  - Example program in HTML
  -

Do: 02 Hour: III hr

Date: 13.12.22 Class: IMSc I.T

ASP. Net Introduction.

- Meaning of .Net technology.
- Web forms.
- Directives.
- User Controls.
- Custom Controls.
- CGI
  - Introduction
  - Server-client Interaction.
  - Overview.

Class: I MSC I.T Date: 20.03.23

DO: D1. Hour:

Document of web services:

- Testing of web service.
  - Testing - method
  - Web Service basics.
  - Fundamentals.
  - Session
  - Context.
  - Using proxy class

Overview.

- V unit
  - Component programming.

Class: I MSC I.T Date: 21.03.23

DO: D2 Hour: I hr.

Unit-V LCD.

- COM
- DCOM.
- Compiling the Component class.
- Consuming database Components.
- Independent User Control.
- Deriving Custom Control.
- Creating adaptive Control.
- Maintaining control state.
- Custom Control events.
- process model
- State - viewing
- overview

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