

A. Maria Stella

Notes of Lesson		
		10
JULY 2022 - NOV 2022		20
		20
		10
III BCA B, C		20
Web Designing using HTML		04 + 04
		04

II BCA B
Database Management System (08 hrs)

Total : 16 Hrs Theory

II BCA B

Database Lab

→ 03 + 01 = 04 Hrs Lab

ASP. Net Lab

→ 01 Hr Lab

Total work load : ~~02~~ 03 Hours

SBE2 Web Designing using HTML

Unit - I : Introduction to HTML

Introduction to HTML - Information files
Creation - Web Server, web client files
Creation - Web Browser - HTML Tags - Paired
Tags - Singular Tags - Common HTML Commands -
Document Head - Document Body - Titles
and Footers - Text Formatting - Emphasizing
Material in a web Page (ICT) - Text Styles -
Other Text Effects

Unit II : HTML List & Graphics

Types of List : Unordered List (Bullets),
ordered list (Numbering), Definition List -
Adding Graphics to HTML Documents -
Image Alignments - using the Border Attribute,
using the width Attribute - using the Height
Attribute - using the Align Attribute - using
the Alt Attribute (Seminar)

Unit III : Tables, Linking and Frames

Introduction - using the width & Border
Attribute - using the cell Padding Attribute -
using the cell spacing Attribute - using
the Bgcolor Attribute - using the

Implicit cursor Attributes

1. not found

1. found

1. rowcount

1. isopen

Exception Handling

★ Methods by which programs deals with run time errors

★ Advantages

Syllabus completed.

Overall Revision

27/10/22

5th hr

Semester Questions Sample Discussed

Tips for writing Semester Exam

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1.8

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July 2022 - Nov '2022 .

COURSES ALLOTTED

1. Compiler Design - II MCA - 05 Hours
2. Operating System - I MCA - 05 Hours
3. Operating System - III BCA B - 07 Hours

17 Theory
 Hours
 + Practical
 03 Hours

D \ H	1	2	3	4	5
D ₁		IMCA		IMCA	IMCA
D ₂		IMCA	IMCA	IMCA	III B
D ₃		IMCA	III B	IMCA	III BCA
D ₄	IMCA	III B	IMCA	III B	IMCA
D ₅	IMCA	III B	IMCA	IMCA	IMCA
D ₆	IMCA	IMCA	IMCA	IMCA	III B

II MCA - III Semester

Compiler Design

Unit 1 Introduction

Compiler - Analysis of the
source program - phases of Compiler
- cousins of the compiler - Grouping
of phases - Compiler construction
tools - Lexical Analysis - Role
of Lexical Analyzer - Issues in
Lexical Analysis - Input Buffering
(LCT) - Specifications of Tokens.

Unit 2 : Different Types of Parsing

Role of Parser, Writing
Grammars - Context-Free Grammar
Top Down Parsing - Recursive
Descent Parsing - Predictive
Parsing Bottom-up Parsing - Shift
Reduced Parsing (Seminar) - Operator
Precedence Parsing - LR Parser -
SLR Parser.

Revision

Unit 3, 4 and Unit 5

Important Questions and
Answers Discussed:

Previous year Questions
and answer Discussed.

22/10/22
IV 105

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NAME : S. ANTHONI SAMY.

DEPT : COMPUTER APPLICATIONS

JUNE - NOV-2022

COURSES ALLOTTED:

1. Data Communication Network - III BCA A - 06 Hrs

2. Database Management System - II BCA C - 06 Hrs

3. Digital Computer Fundamentals - I MCA - 05 Hrs

Total Theory - 17 Hrs

Name : S. ANTHONI SAMY

Designation : Assistant Professor

Department : Computer Applications

College : J. J. College of Arts and
Science (Autonomous)

TIME TABLE

Hrs Day	1	2	3	4	5
D1		II BCA 'C'		III BCA 'A'	II BCA 'C'
D2		III BCA 'A'		II BCA 'C'	
D3		III BCA 'A'	II BCA 'C'		
D4			III BCA 'A'		
D5		II BCA 'C'	III BCA 'A'	II BCA 'C'	
D6	← II BCA 'C' Lab RDBMS Lab →				

Unit I: Introduction to Computer Networks.

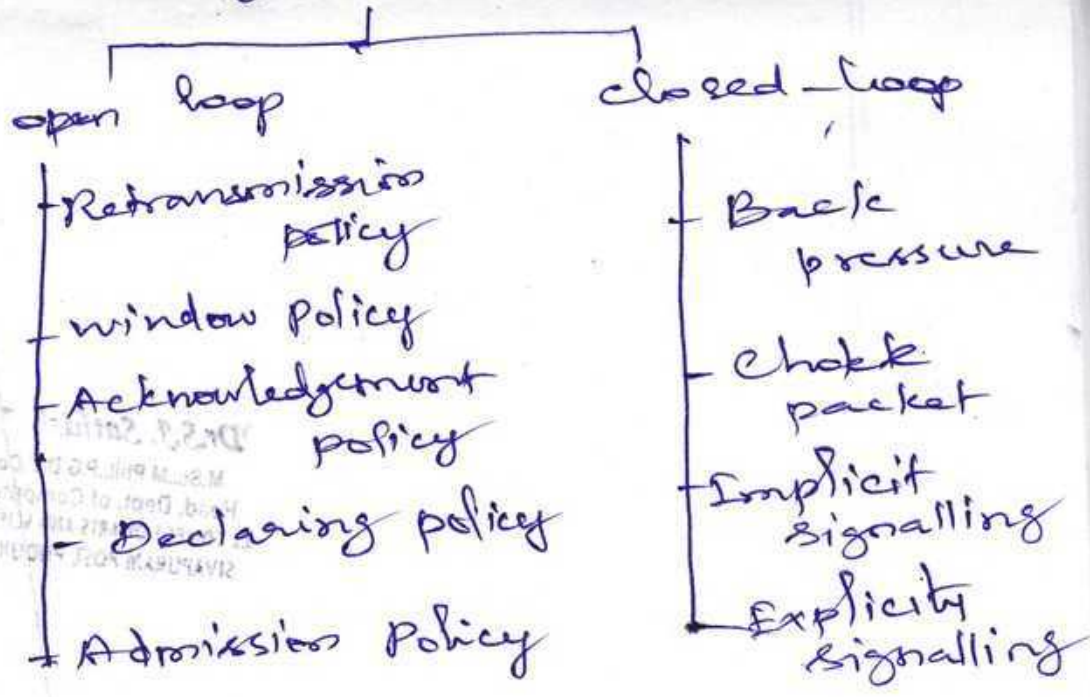
Data Communication - Components - Data Representation - Network - network models - The Internet - Protocols and Standards - Layered Tasks - The OSI model - Layers in the OSI Model: Physical Layer, Datalink Layer, Network Layer, Transport Layer, Presentation Layer, Session Layer, Application Layer TCP/IP Protocols Suite - Addressing

Unit II: Physical Layer and Media

Data and Signals - Analog and Digital - Periodic Analog Signal - Bandwidth - Digital Signals - Transmission Impairment - Data Rate Limits - Performance - Digital transmission - Digital to Digital conversion: Signal Element Vs Data Element, Data Rate Vs Signal Rate - Analog to Digital conversion - Transmission modes.

Unit - III: Datalink Layer

Error Detection and Error Correction - Detection Vs Correction - Forward Error Correction Vs Retransmission - Block coding - Linear Block codes - cyclic codes - Advantage of cyclic code - checksum - Datalink Control - Framing - Flow and Error Control Protocols - Noiseless channels - Go Back N



27.10.22
Ith

Email - file - www and HTTP

- Telnet is a general purpose client/server application program.
- Electronic Mail
 - * Architecture
 - * User Agent
- MIME
- SMTP - Simple Mail Transfer Protocol
- File Transfer Protocol
- Anonymous FTP
- www and HTTP Architecture

FTP & client

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27/10/22

Notes of Person

June 2022 - November 2022

1. II MCA DATA MINING and

ware Housing - 5 hrs

2. III BCA 'A' - Operating Systems. ~~2~~ hrs

3.

Hr	1	2	3	4	5
<u>I</u>		PG IMCA		<u>II</u> MCA	<u>III</u> - A -
<u>II</u>			<u>III</u> A -	<u>II</u> MCA	<u>III</u> - A -
<u>III</u>	PG IMCA			<u>II</u> MCA	
<u>IV</u>		<u>III</u> - A -		<u>II</u> MCA	<u>III</u> - A -
<u>V</u>		<u>III</u> A -		<u>III</u> A -	
<u>VI</u>					<u>II</u> MCA

Operating Systems. USRI CA 19

Unit I - overview .

Importance of operating system - Basic Concepts and Terminology - An operating system - Resource manager - An operating system process viewpoint - Other views of an operating system - I/O programming - Interrupt structure and processing

Unit II - memory management .

Single contiguous allocation - Introduction to multiprogramming - partitioned allocation - Relocatable partitioned memory management - Paged memory management - Demand paged memory management - segmented memory management - segmented and Demand Paged memory management .

Unit - III - Process management .

State model - Job scheduling - functions - policies - Job scheduling in non mult Programmed environment - Process scheduling - evaluation of RR multiprogramming - performance - multiprocessor system - process synchronization .

Unit 4 - Device management .

Techniques for device management - Device characteristics - Hardware considerations channels and control units - device allocation -

28/11
29/3# Information needs of mgt staff. -
separate db. → ODS → Consolidated view
of the enterprise's curr. op. info.

7/5
def Subject oriented, integrated, volatile, curr. values
data store, containing only corporate detailed
data.
data warehouse → db with more his data.

30/9/22 ODS design & implementation:

30/3# req data model to meet ent req.,
ETL → Extraction, Transformation, Loading.
Why a separate ODS?

ODS → makes query processing
OLTP → ODS.

OLE (no significant delay),
OLE integrated, up to date.
char 1. Unified view
2. High level of availability
3. online access of info.

BTL:

requires
data cleaning, filtering, integr
errors by staff.



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30/9/22

M. Samulatha

Assistant Professor

Department of Computer Applications

Notes of Lesson

June - 2022 - Nov 2022

	1	2	3	4	5
D ₁	III C	← III B KIN GF		III B	
D ₂	III C		III B		III C
D ₃		III B	III C	III B	
D ₄	III C		III B		III C
D ₅	III B	← III C KIN GF		III C	
D ₆	III B		III B	III C	

Programming in ASP.NET - IV BCA B' -
(08-hrs)

Programming in ASP.NET - IV BCA C' -
(08-hrs)

Unit-1 Introducing .Net

The Evolution of Web Development -

Server Side Programming, client side Programming

- The .Net Framework. The C# Language: C#

Language Basics - Variables and Data types -

Arrays - Enumerations (TCT) - Variable Operations -

Type conversions - object Base Manipulation -

The String Type - data Time and Time

Span types - Conditional Logic - Loops -

Methods - parameters - Delegates.

Unit-2: Types, objects and Namespaces.

Types, Objects and Namespaces. The

Basic About classes Static Members -

Building A Basic class - understanding

Namespaces, Assemblies (seminal) - Using Namespa

-ces, ~~an~~ Importing Namespaces, Assemblies -

Advanced class Programming - Partial class,

Generics, Developing Asp.Net Applications:

Practices of Visual Studio - creating

Websites - Designing A Webpage - The Anatomy

of a web form - The web form Markup.

The page Directive - The Doctype - Writing
code

The view state

26/10/22
DB
(11) B

Asp.Net controls use

view state. View state information
is maintained in a hidden field
of automation

DB
MC
- 1/11

Language = C#

AutoEvent. Writeup = "line" code file = "example"
• asp.cs" Inbuilt = "example" . P



C.D.

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JUNE-2022 - NOVEMBER 2022

COURSES ALLOTTED

1. Network Security - II MCA - 5 HRS
 2. Data Communication Networks - III BCA 'B' - 6 HRS
 3. Data Communication Networks - III BCA 'C' - 6 HRS
- Total Theory → 17 HRS

TIME TABLE

HRS DAY ORDER	I	II	III	IV	V
D ₁		II MCA		III BCA 'C'	II MCA
D ₂	II MCA ← PG LAB →				III BCA 'B'
D ₃	III BCA 'C'	II MCA		III BCA 'C'	III BCA 'B'
D ₄	III BCA 'B'	III BCA 'C'	II MCA		III BCA 'B'
D ₅			II MCA	III BCA 'B'	III BCA 'C'
D ₆	II MCA ← PG LAB →	III BCA 'C'		III BCA 'B'	

DATA COMMUNICATION NETWORKS

UNIT-I: Introduction to Computer Networks

Data Communication - Components - Data Representation - Networks - Network Models - The Internet - Protocols & Standards - Layered tasks - The OSI Model - Layer in the OSI Model - Physical layer, Data link layer, Network layer, Transport layer, Presentation layer, Session layer, Application layer - TCP/IP Protocol suite - Addressing.

UNIT-II: Physical layer & Media

Data & Signals - Analog & Digital - Periodic Analog signals - Bandwidths - Digital signals - Transmission Impairment - Data Rate limits - Performance - Digital Transmission - Digital to Digital Conversion: Signal element Vs Data element - Data rate Vs signal rate - Analog to Digital Conversion - Transmission modes.

UNIT-III: Data Link Layer

Errors Detection & Error Correction - Detection Vs Correction - Forward error correction Vs Retransmission - Block coding - Linear block codes - cyclic codes - Advantages of cyclic codes - Check sum - Data link control - Framing - Flow & Error control - Protocols - Noiseless Channels - Go Back N Automatic Repeat Request - Piggybacking - Point-to-point Protocol.

UNIT-IV: Network layer

Network layer: Logical Addressing - IPv4 Addresses - Address space - classful Addressing - classless Addressing - Network Addresses - Network Address Translation - IPv6 Address - Internetworking - Internet As Datagram Network - Internet As Connectionless Network - Fragmentation - Fields Related to Fragmentation - Fragmentation offset - IPv6 -

- uses filtering table - decide which must be discarded (not forwarded)

Proxy Firewall (Application gateways)

- b/n Customer Computer & Corporation comp.
- filters at appli. layer.
- client process - sends message, proxy firewall runs server process to receive the request.
- Server open - packet - at appli. level & finds out if the request is legitimate.
- If it is, servers act as client process & sends message to real server.
- if it is not, the message dropped & error message sent to external user.

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~~DEC 2022~~ - ~~HA~~

June 2022 - November 2022.
[ODD SEMESTER]

Programming In C.

§
Digital Computer Fundamentals. (DCF)

Course Code : U1R2CACCI

Course Objectives:

- To develop programming skills using the fundamentals of C.
- To develop programs using the basic elements like Control statements, Arrays and Strings.
- To develop programs using functions.
- To develop programs using the basic elements like Arrays and String.
- To develop programs using pointers and File.

Unit I:

Overview of C.

C fundamentals Character set - Identification and keywords - data types (ICT) - Constants - Variables - Declarations - Expressions - Statements - Arithmetic - Unary - Relational and logical - Assignment and Conditional Operators (Assignment) - Library functions.

Unit II:

Input output, Branching And Looping Statements.

Data input output functions (Seminar)

P2 = fopen ("OUTPUT",

fclose (P1);

fclose (P2);

This program opens two files and closes them after all operations are completed. Once a file is closed, its file pointer can be reused for another file.

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Jun -
NOV-22

July-22 to Nov-22.

K. Bhuvaneshwari. M.Sc., M.Phil.,
 Assistant Professor,
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Course Allotted :-

1. DataBase Management System - 7+2 hrs - II BCA 'A'
 2. ASP. Net Programming - 8+2 hrs - II BCA 'A'
 3. Value Education - 02 hrs - II BCA 'C'
-
- 21 hrs.

Hrs Do	1	2	3	4	5
D1		<u>II A</u>		<u>III A</u>	<u>II A</u>
D2	<u>< DBMS Lab ></u>			<u>III A</u>	<u>II - C</u>
D3	<u>II - A</u>	<u>II - C</u>		<u>III - A</u>	<u>II - A</u>
D4		<u>III A</u>		<u>IV - A</u>	<u>I - A</u>
D5		<u>III - A</u>	<u>II A</u>	<u>III A</u>	
D6	<u>< III - A Net Lab ></u>			<u>II A</u>	<u>III A</u>

UNIT : I : Introducing .NET:

The Evolution of Web Development - Server side Programming, Client side Programming - The .Net Framework. The C# Language: C# language: C# language Basics - Variables and Data Types - Arrays - Enumerations (ICT) - Variable Operations - Type Conversion - Object Base Manipulation - The String Type - Date Time and Time Span Types - Conditional Logic - Loops - Methods - Parameters - Delegates.

UNIT-II: Types, Objects & Namespaces:

The Basic About Classes Static Members. Building A Basic Class - Understanding Namespace & Assemblies (Seminar) - Using Namespaces, Importing Namespaces, Assemblies - Advanced class Programming - Partial class, Generics. Developing ASP.NET Applications: Promises of Visual Studio - Creating Web sites - Designing A Web page - The Anatomy of A Web Form - The Webform Markup, The page Directive - The Doctype - Writing code.

UNIT-III: Web Form Fundamentals:

The Anatomy of ASP.NET Application - Introducing Server Controls - HTML Server

Item Template

Insert Item Template

Pages Template

Header Template

Footer Template.



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June 2022 - NOV 22

I - BCA - I Sem
 IMCA - I Sem

Do How	1	2	3	4	5
D ₁	$\begin{matrix} \xrightarrow{I} \\ \xleftarrow{MCA(A)} \end{matrix}$	IMCA (B)		IMCA (B)	I(A)
D ₂		$\begin{matrix} I(A) \\ MCA \end{matrix}$	$\begin{matrix} I \\ MCA \end{matrix}$ (B)		I(A)
D ₃	$\begin{matrix} \xrightarrow{I-MCA} \\ \xleftarrow{(B)} \end{matrix}$		$\begin{matrix} I(A) \\ MCA \end{matrix}$		$\begin{matrix} I(A) \\ MCA \end{matrix}$
D ₄		$\begin{matrix} I(A) \\ MCA \end{matrix}$	I(A)		I(A)
D ₅		I(A)		$\begin{matrix} I(B) \\ MCA \end{matrix}$	I(A)
D ₆	$\begin{matrix} \xrightarrow{II} \\ \xleftarrow{MCA} \end{matrix}$	IA		$\begin{matrix} I(B) \\ MCA \end{matrix}$	IMCA(A)

Digital Computer Fundamentals

U1R@CACC2

UNIT-I - Number System and Logic gates.

Number System & codes: Number System - Base conversion - Binary codes - code conversion - Digital logic: Logic gates - Truth tables - Universal Gates (IC).

UNIT-II: Boolean Algebra.

Boolean Algebra: Laws & Theorems - SOP, POS Methods - Simplification of Boolean functions - Using Theorems, K-map, Prime - Implicant Method. Binary Arithmetic: Binary Addition Subtraction - Various representations of Binary Numbers - Arithmetic Building - Blocks - Adder - Subtractor.

Date: 14/10/22

Do: D1

Class - I - BCA - A

Hour: 5

Conducted Class Test:- Topic is ~~Bar~~ Map.

Date: 17/10/22

Do: D2

Class - I - BCA - A

Hour: 5

Shift Register accepts information from some input source and then shifts this information along the chain of flip-flops, moving it through one flip-flop each time when a positive-going clock signal occurs.

A problem that may occur if certain design precautions are not taken with the flipflops.

If the flipflop output changes too fast state, it could be ripple/race down the chain. This called the race problem.



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	1	2	3	4	5
D1	I MCA B	IB		IB	I MCA B
D2	I MCA A	I MCA B ↔			I MCA B
D3	II MCA	I B ↔		I MCA A	I MCA B
D4	I MCA A	I MCA B ↔		I MCA A	I B
D5		I MCA	IB		IB
D6	I MCA B	I B		I MCA A	

Programming in C
 Java programming
 Distributed Technologies

Unit-I Overview Of C

C fundamentals Character set - Identifier

and keywords - data types - Constants -

Variables - Declaration - Expressions - Statements -

Arithmetic - Unary - Relational and logical -

Assignment and Conditional operators -

Library function

Unit-II Input output, Branching and Looping

Statements

Data input output functions - Simple

C programs - Flow of control - if, if-else, while,

do while, for loop - Nested Control

Statements - Switch, break and continue,

goto statements - comma operator

Unit-III User Defined Functions

Functions - Definition - proto types -

passing arguments - Recursions - Storage classes

Automatic, External, Static, Register variables -

Multi file programs.

27/10/22
D1 / Tm

int temp1, temp2;

temp1 = *px;

temp2 = *py;

*px = temp1 / temp2;

*py = temp1 % temp2;

3

Here the function receives address of a, b

px = &a;

py = &b;

The value of quotient & remainder are

stored in the
registers

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G.D.

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Ms. A. Mania Stella, Asst. Prof, Dept of CA
 DEC - 2022 to APRIL - 2023

Notes of Lesson

Time Table

	1	2	3	4	5
D ₁	<u>III</u> C		<u>III</u> A ↔		I A
D ₂	I A ←	I A	I A →		I A
D ₃	<u>III</u> C		<u>III</u> PHY		<u>III</u> A
D ₄		I A		<u>III</u> C	<u>III</u> A
D ₅	<u>III</u> B ↔	I A		<u>III</u> A	I A
D ₆	<u>III</u> A		<u>III</u> PHY		<u>III</u> C

Papers Handled

III BCA 'A' & 'C' → Multimedia and It's Applications

III B.Sc., Physics

→ Internet Skill Development Course

I BCA 'A'

→ RDBMS

Relational Database Management System

Multimedia and It's ApplicationsUnit I : Introduction to Multimedia

Introduction to Multimedia - CD Rom and the
 Multimedia Highway - Use of Multimedia -
 Multimedia in Business - Multimedia in School -
 Multimedia at Home - Multimedia in Public
 Places - Multimedia Skill and Training - The
 Team - Project Manager - Multimedia Designer -
 Interface Designer - Writer - Video Specialist -
 Audio Specialist - Multimedia programmer.

Unit II : Multimedia Software and Hardware

Multimedia Hardware and Software - Macintosh
 Tool and windows production Platforms - Connection -
 Memory and Storage Devices - Input Devices -
 Output Hardware - Communication Devices - Basic
 Software Tool - Text Editing and word processing
 Tool - Painting and Drawing Tool - 3D
 Modeling and Animation Tool - Image Editing
 Tool - Sound Editing Tool - Animation
 Video and Digital Movie Tool - Making
 Instant Multimedia - Multimedia Authoring
 Tools.

developed

Alpha Testing

Beta Testing

Preparing for Delivery

Delivery on the WWW

Unit completed

11/03/23
Db
Stella
C1

Semester 2 Marks Questions &
Answers Revision.

16/03/23
Db
Stella
1A1
17/03/23
Db
Stella

Multimedia Assignment presentation

A Maria Stella

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1.2

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EVEN SEMESTER

(DEC '2022 - APR '2023).

1. II BCA 'C' - Python Programming
2. III BCA 'B' - Programming in PHP.
3. III BCA 'C' - Programming in PHP.

2

III BCA - VI SEMESTER

PROGRAMMING IN PHP.

UNIT 1: Introduction to PHP.

Introduction - Creating First PHP

Page - Running first PHP Page -

Mixing HTML and PHP. - Command

Line - working with variables -
storing data in variable -

Interpolating string (ICT) - Creating
variables - Creating constant -

Understanding PHP internal data
types.

OPERATOR : PHP's Math operators -

Assignment operators - Increment
and Decrement operators - String
operators - Bitwise operators -

comparison operator - Ternary
operator and logical operators.

Previous year
Import Questions and
Answer Discussed.

ITC
23/03/23
10/10/23


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NOV'2022 - APR'2023

Relational Database Management System:

Unit I: Introduction

Database System Applications - DBMS vs File System - View of data - Data Model - Database Languages - Database users and Administrators (ICT) - Transaction Management - Database System Architecture - Application Architecture. Data Models: Basic concepts Constraints - Keys - ER Diagrams - Weak entity - Extended ER Features - UML: Relational Model: Structure of Relational Database - Relational Algebra - Views.

Unit II: SQL

Background - Basic Structure - Set Operations - Aggregate Functions - Null values - Nested subqueries - Views (ICT) Modification of the database - DDL - Embedded SQL - Dynamic SQL

Unit III: Advance SQL

Integrity and Security: Domain - Constraint - Referential Integrity - assertion - Trigger - Security and Authorizations - Authorization in SQL - Encryption and authentication

Thurs

21.03.23

Im-IC

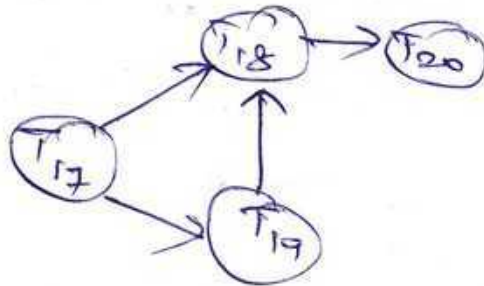
- Deadlock Prevention

* Wait-die scheme

* Wound-wait scheme

- Deadlock Detection and Recovery

* Deadlock Detection



- Recovery from Deadlock

* Selection of a victim

* Rollback

* Starvation

- Multiple Granularity

Multiple Granularity is done by allowing data items to be of various sizes and defining a hierarchy of data granularities.

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Dr. S. J. Sathish Aaron
12/3/23

Notes of Lesson

December 2022 - April 2023.

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1. Python Programming - II BCA 'B'
2. Software Engineering - III - Bca 'C'

D / #	1	2	3	4	5
1		II-B			II-B
2	II-B	III-C		IC-EBS	II-C
3	Py				III-C
4	III-ARM		✓ III-C		II-B
5	II-B	III-C		III-C	IC-EBS
6	III-ARM		III-C		II-B

VARICACCT Python Programming

Unit - I: way of the Program - Define Program - Running Python - The first Program - Arithmetic operators - value and types - formal and Natural language - Debugging, Variables, Expressions and statements: Assignment statements - Variables names - Expression and statements - Script mode - order of operations - string operations - Comments.

Unit - II: Functions: Function call - math function - Composition - Adding new function - definition and uses - flow of execution - Parameters and Arguments - Variables and parameters are local - fruitful functions and void functions - define function - Conditionals and Recursion: floor division and modules - Boolean Expressions - Logical operators - Conditional Execution - Alternative Execution - chained conditionals - Nested Conditionals - Recursion - Return values - incremental development - Composition - Boolean functions -

Unit - III: Iterations: Reassignment - updating variables - The while statement - Breaks - Algorithms strings: A string is a sequence - Len - string slices - strings are immutable - searching - string methods - In operator - string comparison, lists - list are mutable - Traversing a list - list operations - list slices - list methods - map, filter, Reduce, Delisting Elements - list and strings - objects and values - Aliasing.

File names and paths:

- files are organized into directories
- Every running program has a 'current directory'.

>>> import os

>>> cwd = os.getcwd()

>>> cwd

'/home/xyz'

Path identifies the file.

1. Absolute path
2. Relative path.

Class a user defined type

- Compound data.
- Class class type.
- object.
- object member.
- Example



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Assistant Professor

Department of Computer Applications

Notes of Lesson

Dec 2022 - April 2023

Unit DO	1	2	3	4	5
D1	$\xleftrightarrow{\text{IIA}}$	$\frac{\text{III}}{B}$		$\frac{\text{III}}{B}$	MCA B
D2	$\xleftrightarrow[B]{\text{MCA}}$			MCA B	$\frac{\text{II}}{\text{MB}}$
B3	$\xleftrightarrow[A]{\text{MCA}}$			MCA B	MCA A
D4	MCA A	$\frac{\text{I}}{B}$	$\frac{\text{III}}{B}$		MCA B
D5		$\xleftrightarrow[A]{\text{MCA}}$	$\xleftrightarrow{\text{III C}}$	MCA A	
D6	MCA A	$\frac{\text{III}}{B}$		$\frac{\text{III}}{B}$	$\frac{\text{II}}{\text{MB}}$

Artificial Intelligence and Expert System } - I MCA
A' & B'

E - Commerce - III BCA B'

Bio-Informatics - II B.Sc (MB)

Artificial Intelligence and

Expert System - P2R2CAEC1:1

unit-1 Introduction

Intelligent Agents - Agents and
Environments - Good behavior - The nature
of environments - Structure of agents -
Problem Solving (ICT) - Problem Solving
agents - Example problems - Searching
for solutions - uniformed search
Strategies - Avoiding repeated states -
Searching with Partial information.

unit-2 Searching Techniques

Informed search and exploration -
Informed search strategies - Heuristic
function - Local search algorithms and
Optimistic problem (ICT) - Local search
in continuous spaces - online search
agents and unknown environments -
constraints Satisfaction problems (CSP) -
Backtracking search and local search
for CSP - Structure of problems -
Adversarial search - Games (Minimax) -
Optimal decisions in games - Alpha
- Beta pruning - Imperfect real time
decision - Games that include an
element of chance

- Each link is associated with weight. ANNs are capable of learning, which takes place by altering weight values. Two types of ANNs

- Feed forward ANN
- Feedback ANN

Machine Learning in ANN.

- Supervised Learning.

- It involves a teacher that the ANN itself.

- Unsupervised Learning.

- It is required when there is no example data set with known answers.

- Reinforcement Learning

- This strategy built on observation. The ANN makes a decision by observing its environment.



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DEC' 2022 - MARCH 2023

EVEN SEMESTER

COURSES ALLOTTED

1. E-Commerce - III BCA 'A'
2. E-Commerce - III BCA 'C'
3. Internet & WWW - II BCA 'B'
4. Computer Applications in Chemistry - III B.Sc., Chemistry.

UNIT-I: Welcome to E-Commerce

Electronic Commerce - Types of E-commerce Solutions -
Major projects in Electronic Communication - Applications of
E-Commerce - Direct Marketing & Selling - Examples of
Today's E-Commerce - Transaction Processing Systems -
Value Added Networks - Information Services - Educational
and Medical.

UNIT-II: Essential Tools for E-Commerce

Data Communication - Forms of Data Transmission -
Data Transmission Techniques - Communication Channel
Bandwidths - Types of Communication Channels - Methods
of Data Transmission - Transmission modes -
multiplexing - Integrated Services Digital Network (ISDN)
Asynchronous Transfer mode (ATM).

UNIT-III: Internet, Intranet & Extranet

The Internet - Information superhighways -
Internet and E-commerce - Linking to the Internet -
Internet Address - Internet Tools - Domain Name
System (DNS) - Intranet - Communication Systems -
Software used in E-Mail - Electronic meeting
System - Extranets - X.400 Message Handling System -
X.500 Directory Service.

UNIT-IV: Technologies in E-commerce Systems

Introduction - Electronic Data Interchange (EDI) -
Use of EDI - The Evolution of EDI - Benefits of
EDI Process - How EDI works - EDI Standards -
Cost Benefit analysis of EDI - EDI Components -
File Types - EDI Services - Choosing EDI Value
Added Networks (VAN) - Business approach to EDI -
EDIFACT - Structure of EDIFACT - EDI Security &

- (iii) Signature - Transporting cards.
(iv) Signature Creating cards.

[Signature]

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ASST. PROFESSOR.

Dept of Computer Applications,

Nov-22 to Apr-23.

Hour	1	2	3	4	5
D0					
D1	← MCA A →			MCA (Net)	MCA A
D2	MCA A	← MCA B →	III MB		MCA A
D3		← III A →	III Maths		MCA B
D4		← MCA B →	MCA B	MCA A	
D5	MCA B		III Maths		MCA B
D6		MCA A	III MB	← III A →	III B GS

1. Data Communication Networks - I MCA 'A' & 'B'
2. Internet & Skill Development Course - III Maths & III 'MB'
3. Gender Studies - III BCA 'B'

DATA COMMUNICATION & NETWORKS.

P2R2CACC10.

UNIT - I

Networks - Protocols & Standard - Line

Configuration - Topology (ICT) - Transmission

Mode - Categories of Networks - InterNetwork

UNIT - II

Functions of the Layers - TCP/IP Protocol

suite - Signals - Analog & Digital Signal -

Periodic & A-Periodic signals - Analog signals -

Digital Signals - Data Transmission - Data Terminal

Equipment - Data Circuit terminals Equipment -

Modems.

UNIT - III

Guided Media - Unguided Media -

Transmission Impairments - Media comparison

Multiplexing - FDM - TDM - WDM. Error Detection

& correction - Types of Errors - Detection -

Vertical Redundancy Check - Longitudinal Redundancy

Check - Cyclic Redundancy Check - checksum -

Error Correction.

A gateway is a network node used in telecommunications that connects two networks with different transmission protocols together.

Gateways are basically protocol converters facilitating compatibility between two protocols & operating on any layer of the open systems interconnection model.

Types of Gateways:-

1. Web Application firewalls
2. Cloud storage gateways
3. Media Gateways.

Gateways and routers are similar in that, both can be used to regulate traffic between two or more separate networks.

However, a router is used to join two similar types of networks and a gateway is used to join two dissimilar networks.

Dr. M. Chitradevi

Asst. Professor Department
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J J College of Arts &
Science (A)

Software Engineering - U6R1CA0012

Internet & World Wide Web

DEC 2022 - MARCH 2023

EVEN SEMESTER

Course Objectives :

- To provide an insight about Software Engineering.
- To estimate the Cost and requirements for developing software projects.
- To know the Various design concepts and notations for modelling the software.
- To implement the Coding techniques, strategies to evaluate the Software.
- To Construct software with high quality and reliability.

Unit I :

Introduction to Software Engineering.

Introduction - Some Definitions - Some Size factors, Quality And Productivity factors - Managerial Issues - planning A Software Projects : Introduction - Defining A Problems - Developing A solution Strategy - Planning A Development Process (ICT) - Planning An Organizational Structure.

5.3.23 Enhancing Maintainability During Development

Do: 4

Hr: 4

- S/w maintainability is the degree of application to repair or enhance it.
- Maintainability means fixing, updating, servicing and to modify the system (or) update the software for performance improvement (or) for the correction of faults.
- It increases the reliability, efficiency or safety of the s/w.
- Future maintenance easier.
- Increase the lifetime of the s/w.
- repair / replace the faulty components.
- Make better - than previous condition of s/w.

Types

- I) Corrective
 - II) Adaptive
 - III) Perfective
 - IV) Preventive
- Performance improvement
 - Various bug fixing
 - Up to date with current trends
 - No need to spend extra bucks.

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Dec 2022 - APR 2023

I MCA - DBMS - II - Sem

III BCA - SE - IV Sem

P2R2CACC8: DBMS

Database Management System:

UNIT: I: Introduction to DBMS

Introduction: Database management

System: Database system Application -

DB vs File system - View of Data - DB

Languages - users & Administrators -

DB Structure - Application: Architectures

UNIT: II: Entity Relationship Model.

Basic Concepts: Entity sets -

Relationship sets - Constraints - Keys -

Entity Relationship Diagram (Seminar)

Weak Entity sets - Extended - E-R

features - Specialization - Generalization -

Attribute Inheritance - Constraints Aggregation

UNIT: III - Relational Model.

Basic Structure - Relational Algebra -

Fundamental operations - Outer join

(Assignment) Functional Dependencies:

Basic concepts - Closure - Closure of

Attribute sets - Decomposition - First

Normal form - IInd Normal form - IIIrd NF

Boyce Codd Normal form

Date: 23/3/23

Do: D3

revision

class: I-Me

AEB

Hour: 2, 4

DDL - DML.

DML - Data manipulation language
Commands in SQL.

→ select * Insert * update * Delete

select * from table-name;

select * from student where stu marks > 80;

insert into tablename (column name1, col2, (col3);

update tablename set (column name1 = value1, ...
column name2 = value2)
where condition.

Delete from table-name where condition.

DDL - Data definition language.

→ Create * Drop * Alter * Truncate * Rename

Create table student (sno number(5),
sname varchar(10), Age number(3), Dept
varchar(10), Marks number(3));

Drop table tablename;

Alter table tablename Add (Gender
varchar(5));

Truncate table student;

select * from student;

Rename table student to student-details;

Yumar

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	1	2	3	4	5
D1		III C GS	MCA B		III A
D2		III B		MCA New MCA lab A	III A
D3	III A		MCA B	MCA B III B	
D4	III A	MCA A		MCA B	MCA A
D5	III A	MCA B	III A		MCA A
D6	MCA B	MCA B	MCA A		MCA B

Papers Taken:

Title	Sub-code
Programming in PHP	UGRICACC13
.Net Technologies	P2R2 CACC9

Unit-I

Introduction to PHP

Introduction - Creating First page - Running
first PHP page - Mixing HTML and PHP -
command line - Working with variables - Storing
data in variable - Interpolating strings (ICT) -
Creating variables - creating constant - Understanding
PHP internal Data types. OPERATOR: PHP's math
Operators - Assignment Operators - Increment and
Decrement operators - String Operators - Bit-wise
Operators - Increment and Decrement operators -
String Operators - Bit-wise operators - Execution
Operators - Comparison Operator - Ternary Operator
and Logical Operators.

Unit-II Control Statement.

IF Statement - The Else Statement - The
Elseif Statement - Switch Statement - For Loop -
While Loop - Do...While Loop - for Each Loop (foreach).
String And Arrays: The String Functions -
Converting To and From String - Formatting Text

14/5/23
DS
1/3

Overriding Methods:

You can override methods that means can redefine a base class methods in derived class.

```
<?php
class Person
{
    var $name;

    function set_name($data)
    {
        $this->name = $data;
    }

    function get_name()
    {
        return $this->name;
    }
}

class Friend extends Person
{
    var $name;

    function set_name($data)
    {
        $this->name = strToUpper($data);
    }
}
```

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