

A. MARIA STELLA

FEB 2022

Notes of Lesson

III BCA 'A' & 'C' →

Multimedia and It's Applications

III B.Sc Phy 'A' & 'B'

Internet Skill Development Course

I MCA

Database Management System

Multimedia and It's Applications

Unit I: Introduction to Multimedia

Introduction to Multimedia - CD ROM
and the Multimedia Highway - Uses 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 Tools and windows production
Platforms - Connections - Memory and Storage
Devices - Input Devices - Output Hardware -
Communication Devices - Basic Software
Tool - Text Editing and word processing

* Hotspots and Buttons Designing

* Things to Avoid during Designing

* Producing Stage when MM project is delivered

Content and Talent

* Stuff from which messages are developed
Content Acquiring

* Using Content created by others

* Using Content created for a project

* Using Talent

* Copyrights

* Obtaining rights

* Acquiring Release Document

Delivery

* Test and review the project

* Alpha Testing

* Beta Testing

* Preparing for Delivery

* Delivery on the WWW



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NOTES OF LESSON

Feb ^ 2022 - April 2002

Day DAY HOUR ORDER	I	II	III	IV	V	
I	II BCA 'C'	III Maths 'A'	III BCA 'C'	I.	III BCA 'B'	
II	II Maths 'B'	III BCA 'B'	III BCA 'C'	III BCA 'C'		
III		III Maths 'B'	III BCA 'B'	III BCA 'C'	III BCA 'B'	
IV	II BCA 'C'	III BCA 'B'	III BCA 'C'			
V	III BCA 'B'	III BCA 'C'	III Maths 'A'		I BCA 'C'	
VI	III BCA 'B'		III BCA 'B'			

E-Commerce

Unit-I Welcome to E-Commerce

Electronic Commerce - Types of electronic Commerce Solutions - Major projects in electronic Communication - Application of E-commerce - Direct Marketing & Selling - Examples of Today's E-commerce - Transaction Processing Systems - Value Added networks - Information Services - Educational & 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 super highway - Internet and E-Commerce - Linking to the Internet - Internet Address - Internet Tool - Domain Name System (DNS) - Intranet - Communication Systems - Software used in E-mail - Electronic meeting systems - Extranets - X.400 Message Handling System - X.50 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 network EDIFACT - Structure of

III BBA '15
10.05.22
D-II
H-II
III BBA '15
12.05.22
D-II
H-II, III

Security Mechanisms

- Encryption
- Digital Signatures
- Key management
 - Generation
 - Distribution
 - Manual distribution & receipt
 - Electronic distribution
 - Certification authorities.
 - X.509 Certification.
 - Archiving.
- Sealing

III BBA '15
13.05.22
D-II
H-II

Technological Mechanisms

- Smart cards
- Worm disks
- Biometrics.

Security Management

- Risk Analysis
- Managing the risks.



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III BCA A & B - Software Engineering

III B.Sc che - IDC

III B.Sc MB - Bio Informatics

II B.C.A A - VAC

Jan - 2022 - April - 2022

	1	2	3	4	5
D1	III A SE	I-A EVS	II A Old VAC Lab		III A Old
D2		II A VAC	II A	CHE A	III B KIM
D3	III B CE	III - A	CHE B	III A KIM	
D4	III B	III B		CHE A	III C KIM
D5		III A VAC	II MB	CHE B	III A
D6	II A VAC		CHE B	II MB	III C KIM

Software Engineering

Unit - I

Introduction to Software Engineering

Introduction - some definitions - some factors - Quality and Productivity factors - Managerial Issues - Planning a software project - Defining a problem - Developing a solution strategy - Planning a development process - Planning an organizational structure - Other Planning Activities.

Unit - II

Software Cost Estimation

Software cost factors - software cost estimation techniques - staffing - level estimation - Estimating software maintenance costs - The software requirements specification - Formal specification techniques - Language and processors for requirement specification.

Unit - III

Software Design

Fundamental Design Concepts - Modules & Criteria - Design Notation - Design Techniques - Detailed design Consideration - Distributed system design - Test plans - Interim - Inspections - Design

Cntd
13/5/22 Uses:

- DO: 5
- (I) BCA A
No: 1
- (II) BCA B
No: 2

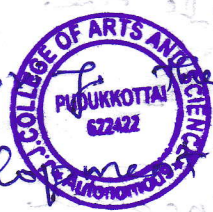
It allow programmers ~~because~~ to understand the program easily.
If a program consists of thousands of instructions and an error occurs.

- * structured programming
- * Two Sequence
- * Alternation
- * Iteration
- * Nested structure

Coding technique:

The coding is the process of transforming the design of a system into a computer language format.

Improvement in
and development of
Computer.



Clarity, quality
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* Data Compression

1. Python Programming

(i) II BCA - A section

(ii) II BCA - C Section.

2. DOT NET Technologies - I MCA

	1	2	3	4	5
D1	\xleftrightarrow{IP}		<u>IIc</u>		<u>IP</u>
D2	IP	<u>IIA</u>	<u>IIc</u>		
D3	\xleftarrow{IIc}		IP	<u>IIA</u>	<u>IIc</u>
D4	<u>IIc</u>		IP	<u>IIc</u>	<u>IIA</u>
D5	<u>IIA</u>		<u>IIc</u>	\xleftrightarrow{IP}	
D6	<u>IIA</u>		IP	<u>IIA</u>	\xleftrightarrow{IIc}

Unit 1

The way of the Program.

21.2.22
1 | 3

Problem Solving - ability to

22.2.22
2 | 2

formulate problems, think creatively about solutions, and express a solution clearly and accurately.

Programming Skill →

Program - sequence of instructions that specifies how to perform a computation - mathematical steps.

input, output, math, conditional execution, repetition.

22.2.22

2 | 3

Running Python:

install python and related OS, Command line interface,

23.2.22

3 | 4

Python interpreter → reads and executes python code

⇒⇒ Python Prompt.

⇒⇒ 2+2 ↵

4
⇒⇒ print("J.J. college") ↵

15/5/22
SP/SH

Deleting Elements:

Pop

>>> s = [1, 2, 3, 4, 5]

>>> x = s.pop(2)

>>> x

>>> s

[1, 2, 4, 5]

>>> ~~s~~ del s[3]

>>> s

[1, 2, 4]

15/5/22
SP/SH

Lists and Strings

>>> s = 'Selvam'

>>> t = list(s)

>>> t

['s', 'e', 'l', 'v', 'a', 'm']

>>> s = "College of"

>>> t = s

>>> t



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LESSON PLAN NOTE BOOKS.

FEB'22 to APR'22

1. I-BCA 'B' - object oriented Programming
with Java
2. I-BCA 'C' - Object oriented Programming
with Java
3. I MCA - Data Communication Network

Object Oriented Programming Using C++ and Java.

21.02.22

Introduction:

II hr

IBCA'B

- Program

II hr

IBCA'C'

- Algorithm

- Software

- Hardware

- Packages

- C++ programming
introduction

- Java programming
introduction

22.02.22

Basic concepts of OOP

II hr

IBCA'B

- class and object

II hr

IBCA'C'

- Data Abstraction

ICT class

- Data Encapsulation

- ~~Inheritance~~

- Polymorphism

- Dynamic binding

17.03.22

Ih

IOCA'S

ICF
class

Member functions

- Defining member functions

i) inside

ii) outside

- The general form of making an outside function is
line

- Example program


- Inside member function



~~8-5-200000~~
14-12-22

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EVEN SEMESTER

(Feb-2022 - MAY 2022)

1. Programming in PHP - III BCA - A
2. Programming in PHP - III BCA - B
3. Programming in PHP - III BCA - C
4. Environmental Studies - I BCA - B

	1	2	3	4	5
D1	← III B Lab →		III A	III B	
D2	III B	III A	III C	← III C →	
D3		← III C PG Lab →		III B	III C
D4	III A	III C	III A		III B
D5	III C	III B			III B

III BCA - VI SEMESTER

PROGRAMMING IN PHP.

UNIT 1: Introduction to PHP.

Introduction - Creating First PHP

Page - Renaming & Running first

PHP page - Mixing HTML and PHP.

- Command line - Working with

Variables - Storing data in

Variable - Interpolating String (CT)

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.


PT B

Handling Buttons


28/04/22
IV or

- * Making Button Data persist.
- * Using submit Buttons as HTML Buttons.
- * Example program using Button controls.




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A. Maria Stella

Notes of Lesson

JULY 2021 - ~~DEC~~ DEC 2021

1) III BCA A, B, C

Web designing using HTML

2) III Phy IDC I A, B

Computer and Skill Development
Course

I BCA 'A' Programming in C

SBE-2 Web Designing using HTML

Unit - 1 : Introduction to HTML

Introduction to HTML - Information files creation - Web Server, web client /

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

* Select and option Element

* Syntax

* Example

* Properties

Javascript Built-In objects

* String object

* Syntax

* Example

* String Methods

* Properties

Math object

* Properties

* Methods

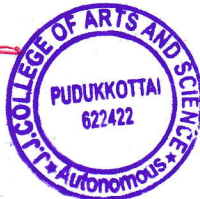
* Syntax

* Example

Date object

* Example

* Methods



user-defined objects

* Example

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Std : _____ Sec : _____ Roll No. _____

School : _____

S.No.	Date	Title	Marks	Signature
-------	------	-------	-------	-----------

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June 2021 - October 2021

II BCA 'A & B' - DBMS
III B.C.A 'B' - Programming In Asp, NET

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

DATABASE MANAGEMENT SYSTEM

Unit-1

Introduction to Database Management System

DBMS - Applications - DB System vs file system -
View of data - DB Languages - Users and
Administrator - DB System Structure -
Application Architectures.

Unit-2

ER-Model

Basic concepts: Entity sets - Relationship sets -
Constraints - Keys - Entity Relationship Diagram -
Weak Entity sets - Extended ER features:
Specialization - Generalization - Attribute
Inheritance - Constraints - Aggregation.

Unit-3

Relational model

Basic Structure - Relational Algebra:
Fundamental operations - Outer join - Functional
Dependencies: Basic concepts - Closure -
closure of Attribute sets - Decomposition -
First Normal Form - Second Normal form -
Third Normal form - Boyce code.

Unit-4

SQL

Basic queries in SQL - Aggregate

II BCUA A
04/10/21
DO: 2
Hr: 3

Triggers:

II BCUA B
DO: 2
Hr: 4

TEST

- ⇒ Special type of stored procedure
- ⇒ It's automatically executes the event occurs in database server
- ⇒ Benefits
- ⇒ Syntax
Create / Replace
- ⇒ Insert / Update / Delete
- ⇒ Example:

II BCUA A
05/10/21
DO: 2
Hr: 3

Function in PL/SQL:

II BCUA B
DO: 2
Hr: 4

TEST

- ⇒ It is same as procedure except that it return a value.
- ⇒ Create or replace function fn-name
Begin
{ Function - Body }
End functionname;

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Department of CA

JJC, Pdkt.

Academic Year 2021-2022.

odd Semester.

1. II MCA - III Semester - Compiler Design.
2. III BCA A - V Semester - Operating System.
3. III BCA B - V Semester - Operating System.

II MCA - III Semester

COMPILER DESIGN

UNIT 1: Introduction

Compilers - 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 (ICT) - specifications of Tokens.

UNIT 2: Different Types of Parsing

Role of Parser, Writing Grammars - context-free Grammars
Top Down parsing - Recursive
Descent parsing - Predictive Parsing
Bottom-up parsing - Shift Reduce
Parsing (Seminar) - Operator Precedence
Parsing - LR Parsers - SLR Parsers.

Flow Graph

02/11/21
Dhr

Flow Graph is directed Graph. It contains the flow of control information for the set of basic Block.

* Examples of flow Graph.

* DAG - Representation of Basic Block.

* Application of DAG.

* DAG construction.

Issues in the Design of Code generator

03/12/21
Itr

* Input to the Code Generator.

* Target Programs.

* Memory Management.

* Instruction Selection.

* Register Allocation.

* Evaluation order.



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Approaches to Code

DATA COMMUNICATION NETWORKS

UNIT-I: Introduction to Computer N/w's

Data Communication - Components - Data Representation - Network - Network models - The Internet - Protocols & Standards - Layered tasks - The OSI model - Layers in the OSI model - Physical layer, Data link layer, N/w 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 - 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: Data link layer

Error Detection & Error Correction - Detection Vs Correction - Forward Error Correction Vs Retransmission - Block Coding - Linear Block codes - cyclic codes - Advantages of cyclic codes - Checksum - 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 Address - Address space - Classful Addressing - Classless Addressing - Network Addresses - Network Address Translation - IPv6 Address - Internetworking - Internet as datagram network - Internet Presentation - Fields Related

- If it is, server act as client process & sends message to real server.
- If it is not, the message dropped and error message sent to external user.

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Handwritten notes in Tamil, including the word 'Formal' written vertically.

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Notes of Lesson

June 2021 - Nov 2021.

Programming in ASP.NET - III B.C.A A, B, C

	1	2	3	4	5
D1	<u>III</u> B&C	<u>III</u> A			<u>III</u> A
D2	<u>III</u> A		<u>III</u> B&C		
D3			<u>III</u> A	<u>III</u> B&C	
D4		<u>III</u> B&C			<u>III</u> A
D5	<u>III</u> B&C			<u>III</u>	

Programming in ASP.NET

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 (Enum) - Variable Operations - Type Conversions - Object Base Manipulation - The String Type - Date 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 and Assemblies (Seminar) - Using Namespaces, Importing Namespaces, Assemblies - Advanced class Programming - Partial class, Generics, Developing ASP.NET Applications: Promises of Visual Studio - Creating Websites - Designing A Web page - The Anatomy of a Web form - The Web form Markup. The Page Directive - The Doctype - Writing code.

Unit - 3: Web Form Fundamentals

The Anatomy of ASP.NET Application Introducing Server controls - HTML Server controls - Converting an HTML page to an

29/9/21
20:5

Wizard control.

- components of wizard.
- source code.
- steps Properties
- wizard Events
- wizard Style.
- code behind file
- example program.

30/9/21
Dk

State Management

Maintain the state of the user as long as a life time of the application done with the help of State management.

- It's classified into two types.



Side State management

Server Side State management

[Signature]

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LESSON PLAN NOTE BOOK

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23 JUNE 2021 to NOVEMBER 2021

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- Subject 1: Distributed Technologies - II MCA
Subject 2: Operating System - III BCA 'B'
SUBJECT: Programming in C - I BCA 'B'

3322A C05: Distributed Technologies

Unit I: Introduction

Understanding Java and J2EE platform.
Understanding J2EE - Examining the origin of J2EE - Working with the model-view-controller - understanding J2EE API's - Introducing Application Servers - Implementing the J2EE platform - understanding the features of an Application Server - Examining full J2EE implementations - Examining partial J2EE implementations - Avoiding vendor lock-in - understanding RMI - providing an overview of RMI - Developing applications with RMI - pushing data from the RMI server - RMI over Inter-ORB protocol (IIOP)

Unit II: The presentation tier.

Creating a magazine publisher application using servlets - Using the servlet context - performing URL redirections - Examining the web.xml deployment descriptor - ~~Going over~~ JSP basics - ~~Introducing~~ JSP - Examining MVC and JSP

21.09.21

Error pages:

IV

- These are probably the two most popular error codes.

* 404 - Resource not found

* 500 - Internal error.

* java.sql.SQLException

* com.mysql.jdbc.DriverException

* com.mysql.jdbc.ConnectionException

* com.mysql.jdbc.SQLException

24.9.21

Using Java Beans

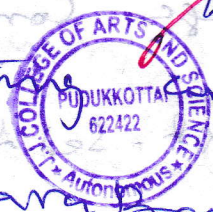
III

- A Java Bean is a java class that has a no-arguments constructor and private or protected fields.

- Using Java Beans in JSP

- The Scope of Java Beans

SS-55
24/9/21



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Pudukkottai.

June 2021 -

November 2021

1. Data mining and Warehousing II MCA

2. Computer Skill Development Course III BSc AM & CS

	1	2	3	4	5
1		BHM	<u>II</u> MCA		
2			<u>III</u> BHM		<u>II</u> MCA
3	<u>II</u> MCA			<u>II</u> BHM	
4			<u>II</u> MCA		
5					

DATA MINING AND WAREHOUSING.

Unit 1: Association Rules mining

Introduction to Data mining - Association rule mining - The Apriori algorithm (FCT) - Improving the efficiency of Apriori algorithm - Apriori-Tid - Direct Hashing and Pruning (DHP) - Dynamic itemset Counting - performance Evaluation of algorithms - SW for Association rule mining.

Unit 2: Cluster Analysis.

Classification - cluster analysis - Desired features of cluster analysis - Types of Data - Computing distance - Types of cluster analysis methods (SEM) - Partitional methods - Density based methods - Dealing - Dealing with large data base - Quality and Validity of cluster analysis methods - cluster analysis SW.

Unit 3: Web Data mining and Search Engines:

web data mining - web terminology and characteristics (Aris) - locality and hierarchy in the web - web content mining - web usage mining - web structure mining - search engines. Characteristics of search engines - search engine functionality - search engine architecture - Crawling of web pages (FCT) - The search engine industry - Enterprise search engine SW.

1-11-21 ODS & DWH Architecture.

Datawarehouse Design.

Guidelines for DWH implementation.

1. Requirement analysis & Capacity planning
2. Hardware integration
3. Modeling
4. Physical modeling
5. Sources
6. ETC
7. Populate
8. User application
9. Roll-out DWH

2-11-21 Implementation Guide lines:

1. Built incrementally.
2. Need a champion.
3. Senior Management support.
4. Ensure quality.
5. Corporate Strategy
6. Business Plan.
7. Training
8. A dedicated team
9. Joint responsibility



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