

I C S 'B', June '22 to Nov '22

Subject: Digital Computer
 Fundamentals

Sub. code: U/R2CSCC3.

Sem : I.

D/H	1	2	3	4	5
I					
II			I-B		
III	IB				
IV	IB				
V	IB				
VI	IB				

→ On arrival of the first clock pulse the first flip changes state on the occurrence of negative edge of the cp. After the end of the first pulse

D	C	B	A
0	0	0	1

when a second pulse arrives

D	C	B	A
0	0	1	0



(Signature)
24/04/23
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Assistant Professor.

Dept. of Computer Science.

(JUNE 2022 - NOV 2022)

D/H	1	2	3	4	5
I	← I-B lab →			III c	
II	III c		II Pm	III B	
III	III B		III c	← I Pm WT Lab. →	
IV	II Pm	III c			II Pm
V	III B		III c		
VI		II Pm	III B	II Pm	III B

III - B } - software engineering
III c }

II Pm - Digital Image Processing.

26/10/22
I hr - II B

Unit Test and Debugging.

Unit Test

Functional Test Performance Test Stress Test Smoke Test

27/10/22

II hr - III

Debugging.

- collect the available information
- Look for Patterns
- Prove or disprove each hypothesis
- Implementing the appropriate correction.
- Verify the correction.

System Testing

(1) Integration

(2) Acceptance

Testing

Top Down

Bottom Up

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MS

Ms. M. Jothi

Asst. Prof. Dept of CS

(JUNE 2022 - NOV 2022)

D \ H	1	2	3	4	5
I		IA	III B	← I & 4 lab →	
II	IPG		III B		IA
III	IPG	IA		III B	
IV	IPG	IPG		III B MCA	DN Lab old lab
V	IA	IPG	IPG		III B
VI			IA	III B	

III B - Dot Net

III A - HTML & Web design

IPG - Web Technology

=> link colors

=> examples

Handwritten: e-link - Commerce link

Handwritten: Sample Home documents

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Handwritten: C. Par

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JUNE 2022 - NOV 2022

Dr. V. VANI

	1	2	3	4	5
D ₁	II PG	II C			III C
D ₂	$\xleftarrow{\text{II C Lab}} \xrightarrow{\text{MCA NEW LAB}}$			III C	
D ₃	II C	III C	II PG	II C	
D ₄			III C	II PG	II C
D ₅	II PG		II C	II C	III C
D ₆	III C		II PG	II C	

II M.Sc - Data Mining and Data
 Warehousing - 5 hours

II B.Sc 'C' - Java Programming - 6 hours

III B.Sc 'C' - Data Communication and
 Networking - 6 hours

II B.Sc 'C' Lab - 3 hours

Theory - 17 hours

Lab - 3 hours

20 hours

JDBC Basics

- ↳ JDBC Architecture
- ↳ JDBC Connectivity
- ↳ Create statements
- ↳ Entering Data into tables
- ↳ Update Query

↳ SQL. executeUpdate (Create table

stu (Sno number(10), Sname varchar(20))

↳ SQL. executeUpdate (Insert into stu
values (101, "Shalini");

↳ SQL. executeUpdate (Update stu
Set Sname = "Raja" where
Sno = 101)

↳ Insert Query

↳ SQL. executeQuery (Insert

values (101, 'Rajesh');

↳ SQL. executeUpdate (Insert into stu

values (102, 'Ranya');

↳ SQL. executeUpdate (Insert into stu

values (103, "Ramu");



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JUNE 22 - NOV 22

Time Table.

D [#]	1	2	3	4	5
D ₁	← II BBA →				IV A
D ₂		III A	II BBA	II Ph	
D ₃	II Ph	II BBA		III A	
D ₄			III A		II Ph
D ₅	II BBA		II Ph		III A
D ₆	II Ph	II BBA		III A	

II BSc cs- Data communications and networks

II MSc cs- Cloud Computing

II BBA - Computer Applications in Business.

26/10/22
Th

Migration RoadMap

- ↳ Evaluate the appln.
- ↳ Select Appln with minimum risk
- ↳ " " elasticity characteristics of the cloud
- ↳ Appn based on SOAP
- ↳ Different time zone

Develop the business case

- ↳ Cost of appln migration
 - ↳ Cost of ongoing
 - ↳ Management services
 - ↳ Redesigns.
 - ↳ Level of service provided.

Design the approach

- ↳ Platform as a service
- ↳ Infrastructure as a services
- ↳ Technical Consideration
 - ↳ skill
 - ↳ security
- ↳ Patterns

Use Integration Model

- ↳ process integration
- ↳ Data Integration
- ↳ presentation

Identify the security & privacy needs

Supervising the migration.

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M.L. J. Nithyaapriya.

July - 2022 - Nov - 2022.

TIME TABLE

DO	1	2	3	4	5
I	III C		← II PG Lab (Online) →		
II	II PG			III C	II PG
III		III C	II A	← II PG Lab →	
IV		II PG		III C	
V		II PG	II A		III C
VI	III C		II PG		

```
printf ("a = %d\n b = %d",  
        &a, &b);
```

Functions

- ✓ Types of Functions.
- ✓ Parameters

Pointers

- ✓ Types.
- ✓ Array of Pointers.
- ✓ Pointers to Functions.

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Name :- S.Nithya

Department: Computer Science

JUNE 2022 - NOV 2022

Day Hour	I	II	III	IV	V
D1	III A	II PG	I PG		
D2	III A	II PG	I PG		
D3		II PG	I PG	III A	
D4	← I-A-Lab. MCA - New →				III A
D5	I PG	II PG		III A	II PG
D6	I PG	I PG	III A		

class	course	Hours
II - Msc(CS)	Network Security	- 05
III - B.Sc(CS)	Operating System	- 06
IV - Msc(CS)	WAP & XML	- 06
I - CS	I-CS-A programming in C (Practical) Lab	- 03

Total Hrs ::

20

17+3

Date:- 29.10.2022

Day:- D3

Hour:- III

Topic:- Attribute, Tag & Elements

Attribute:-

- ✓ It gives additional meaning to the tag.
- ✓ a named-value pair.
- ✓ Value must be enclosed with (") or (')

Tag:-

- Markup data.
- Start Tag & End Tag

Element:-

- Content within the tag
- Font styles can be added.

Example:-

`<font Color = "blue" Size = "15"> Welcome </font>`

↓ ↘ ↗ ↓

Start Tag Attributes "Value." Element End Tag

Summary:-

- ✓ Revision was made.
- ✓ Each unit was summarized.

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29/10/22
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JUNE - 2022 to November 2022

D/H	1	2	3	4	5
D1	III B	III C		III A	
D2	III B		III C		II A
D3		II A		III C	III B
D4	II B	III B	II A		III C
D5	II A		III C	III B	II A
D6		III B	II C	DN Lab	
			NCA old	Lab	

II - A - Java - 5

III - B - DCA - 6

II - C - DCA - 5

16 +

DN Lab 3

19

Date: 27.10.22

Class: III 'c'

Hrs: 2nd

Topic: ADO.Net and DataList.

* DataList is a Databound Control to display and Manipulate data in a web application.

⇒ following template field are supported by the DataList Control.

⇒ Item template

⇒ Edit Item Template

⇒ Header Template

⇒ Footer Template

⇒ Item Style

⇒ Header Style

⇒ Footer Style.

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K. RAMESH

Assistant Professor.

My Class Hours.

JUNE 2022 - NOV 22.

D \ H	1	2	3	4	5
I	IB				IB
II		IB	IB	III P.Ed	
III	IB	IB			IB
IV		IB		IB	
V		IB	IB Java Lab KIM		
VI	III P.Ed	IB		IB	

Final

D \ H	1	2	3	4	5
I	IB		IV P.Ed	IB	IB
II	IB			IV P.Ed	IB
III		IB	IB		IB
IV	IB	IA		IB	
V		IB	Java Lab KIM IB		
VI	IA	IB		I PULab PULab	

IB - Java Programming & Lab

IB - OS

IA - HTML (3 to 5 Units)

III P.Ed. - IDE.

<frameset cols="20%, 40%, 40%">

</frameset>

Web page designing and form.

Forms:

- Forms are the tools to improve user interface in the web.
- Is defined with <form> and </form> tags.

The attributes are,

(i) action

(ii) method

(iii) enctype

(i) action;

- get involves form cross.
- The user input is submitted to the server.

action = "/cgi-bin/comments.cgi"

(ii) Method;

- method has two choices of values.

(i) get - data received in the form

(ii) post - information from the user is put into the data stream of the HTTP.

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- Used to inform the server the encryption process.

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enctype = "application/x-www-form-urlencoded"

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Rudurkottai.

D \ H	1	2	3	4	5
I	IPG1	IPG1			III-A'
II	IB'	IPG1	← III-A' DN Lab MCA Old Lab →		
III	III-A'	IPG1	IB'		III-A'
IV			IPG1	IB'	
V		IB	III-A'	← IPG1 →	
VI		IB'	IPG1	III-A'	

10:15 - 11:10

11:10 - 12:05

12:05 - 1:00

1:30 - 2:25

2:25 - 3:15

III-A' ⇒ DN ⇒ 5 hours

I-B' ⇒ PG1 ⇒ 5 hours

I-PG1 ⇒ AS ⇒ 6 hours

III-A ⇒ DN Lab ⇒ 3 hours

I-PG1 - Lab ⇒ 2 hours

21 hours

=> Following are some examples of Lambda expressions.

$(\text{int } a, \text{int } b) \Rightarrow \{ \text{return } a+b; \}$

$() \rightarrow \text{System.out.println("Hello world");}$

$(\text{String } s) \rightarrow \{ \text{System.out.println(s);} \}$

$() \rightarrow 42$

$() \rightarrow \{ \text{return } 3.1415; \}$

Four Important Syntax rules:

1. Declaring the types of the Parameters is optional;

2. Using Parentheses around the Parameter is optional if you have only one Parameter.

3. Using curly braces is optional (unless you need multiple statements);

4. ~~The~~ the return keyword is optional. If you have a single expression that return a value.

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28/10/2020
DE/2nd

Revision RmI



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S. Abinayaki

Assistant

Professor

(J.J.C)

ODD SEM - 2022.

D/H	1	2	3	4	5
I		III A	III C		III B
II		III BT 'A'	III BT 'B'	← I PM (A3) →	
III	III BT 'A'	III A			III C
IV	III A	III BT 'B'		← I PM WT →	
V		III A	III B		
VI		III A	← III C - DN LAB →		

III - A - Software engineering

III - B - HTML & web design

III - C - HTML & web design

III BT A } Introduction to Internet
B } concept.

III - C - DotNet lab.

Attributes.

- Action
- Method
- Enctype.

Date : 27/10/22

Class : III C

Day order : I

hours : 3

Revision test.

1) Forms

2) Linking a stylesheet to an Html.

Date : 27/10/22

Class : III B

Day order : I

hours : 5

Revision Test.

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2) Linking a stylesheet to an Html



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SP- Ramchandran
Digital Computer fundamentals.
UIR2CSCE3.

JUNE 2022 - NOV 2022

$\begin{matrix} H \\ D \end{matrix}$	1	2	3	4	5
I	$I-C$		$I-A$	$I-B$	$I-C$
II	$II-A$	$II-B$ VE		$I-C$	
III			$II-A$ VE	$I-C$	$I-A$
IV	$II-C$ VE		$I-C$		
V	$II-A$ VE	$I-A$	$I-C$	Lab	
VI		$I-A$	$II-B$ VE	$II-C$	

Digital Computer fundamentals.
Value Education.

① EPROM: (Erasable programmable Rom)

* Its Content Can be erased & Reprogrammed more than once.

* Erased using in ultraviolet light. UV

2537 Å Used for Erasing.

* EPROM Erase Taken out of the system.

② EEPROM [Electrically Erasable Programmable Rom]

* They need not Taken out of system board.

* It's byte Erasable.

* Different voltages are Required.

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Write 21V Read 5V.

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Data Base System Concepts UGRIESC07

II B.Sc C.S.C

No. of students: 52

D/H	1	2	3	4	5
I	IIc				
II	IIc				
III		IIc			IIc
IV				IIc	
V		IIc			
VI					

20/3/23
Dr. J. Par.

Decomposition using FD

- keys & FDs.

FD allow us to express constraints that we cannot express with super keys.

bor_loan = (C-id, l-n, amt)

in which the FD $l-n \rightarrow amt$ holds because for each loan there is a unique amt.

FD can be used in two ways

1. To test relations to see whether they are legal.
2. To specify constraints on the set of legal relations.

Some FDs are trivial as they are satisfied by all relations.

21/3/23
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Boyce - Codd Normal Form.

→ BCNF eliminates all redundancy that can be determined based on FDs.

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relation R is in BCNF w.r.to F if, for all FDs

in F of the form $\alpha \rightarrow \beta$, where $\alpha \subset R$ & $\beta \subset R$, at least one of the following holds

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[Dec-2022 - April-2023]

D/A	1	2	3	4	5
I	III B				IPU
II		III B		← IPU lab. →	
III	IPU	II PUI			III B
IV		III B		← IPU lab. →	
V			III B	IPU	II PUI
VI	IPU	III B		← IPU lab. →	

III B - Computer Graphics.

IPU - Digital Image Processing.

II PUI - SQAT.

24/3/23

7 hr.

Edge Linking and Boundary

Detection

- An edge detection algorithm are followed by linking procedures to assemble edge pixels into meaningful edges.

- Basic approaches.

(i) Local Processing

(ii) Global Processing Via

the Hough Transform.

(iii) Global Processing Via

Graph theoretic Techniques.

23/3/23 Region Based Segmentation.

1 hr.

- Region Growing

- Seed points.

- Region Splitting and Merging

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M.J

M. Jothi

Assistant Professor

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[Dec 2022 - April - 2023]

D \ H	I	II	III	IV	V
I		III C		II PH	II C
II	III C			II C	
III		III C		III C Proj Lab MCA New Lab	
IV		II C RDBMS Lab KIM 6F			
V	II PH			III C	II C
VI	III C	II PH		III C	

23/3/2023

D-III

H-I

Revision - Unit V

⇒ Applications of Microprocessor

* Delay Subroutine

* 7-Segment Display

* Water level Indicator

* Temperature Measurement

* Frequency Measurement

* Traffic Controller

1. last
23/3/23
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2022 - 2023

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NOTES OF LESSON DECEMBER-2022 to APRIL - 2023

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DO	1	2	3	4	5
D ₁		II B		IPL	II B
D ₂	IPL		II B (RDBMS Lab) ← K.M. Chandrasekhar →		
D ₃	II B		IPL	IPL	
D ₄		IPL		III C Project ← K.M. Chandrasekhar →	
D ₅		II B		II B	IPL
D ₆		II B	IPL		

II B - Database System Concepts - 6

IPL - Data Mining and Data Warehousing

IPL - Software Testing

II B (Lab) - RDBMS Lab

- 2

- 3

- 2

Features of Relational Database

↳ Atomicity

↳ Consistency

↳ Isolation

↳ Durability

↳ Data Consistency

↳ Data Flexibility

↳ Loose relationships

Non Lossless Join decomposition

↳ Decomposition

↳ $R = (AB)$

$R_1 = (A)$

$R_2 = (B)$

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A	B
1	1
2	2
3	1

A
1
2
3



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A	B
1	1
2	2

M. Nithyakalyani Mekala

Notes of Lessons

Dec 22 to Apr 23

D \ H	1	2	3	4	5
D ₁	IPN		IIA		IPN
D ₂		IPN	IPN		
D ₃	IIA		IPN	IIA	
D ₄	IPN		IPN		IIA
D ₅	IPN		← Kmg →		
D ₆	IIA			IPN	IIA

II A - Database System Concepts

I Msc cs - Internet of Things

II A - Database System Concepts practical

III - Gender Studies

Decomposition Rules:

4 $\alpha \rightarrow \beta$ holds then $\alpha \rightarrow \beta$

holds and $q \rightarrow r$ holds.

Pseudo transitivity rule:

↳ $\alpha \rightarrow \beta$ and $\alpha \wedge \beta \rightarrow \delta$ holds

then $\alpha\delta \rightarrow \delta$

20/3/23
111 for

Decomposition Multivalued Dependencies

→ Functional dependencies are referred to as equality generating dependencies.

multivalued dependencies are referred as tuple generating dependencies

$\hookrightarrow \alpha \subseteq \beta$ and $\beta \subseteq R$. The multivalued dependencies

$$\alpha \rightarrow \beta$$

Fourth normal form

4th normal

→ D of functional and Multivalued dependencies

D of functional and

2. CR & BCR at least one of the following

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is a trivial multivalued dependencies

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Computer Science,

JJ College of Arts and Science (A)

Pudukkottai.

Dec 2022 - March 2023

D_0 Hr	<u>I</u>	<u>II</u>	<u>III</u>	<u>IV</u>	<u>V</u>
<u>D I</u>		<u>II</u> PG	<u>III</u> B		
<u>D II</u>	<u>III</u> B		<u>I</u> B		<u>II</u> PG
<u>D III</u>	$\xleftarrow{\text{DSLab (KimGP)}} \xrightarrow{\hspace{1cm}}$			<u>I</u> B	
<u>D IV</u>		<u>II</u> PG	<u>III</u> C	<u>I</u> B ^(VAL)	
<u>D V</u>	<u>III</u> B			<u>I</u> B	
<u>D VI</u>		<u>III</u> C	<u>III</u> B		<u>I</u> B ^(VAL)

23/3/23

DO-19

Hr-V

General topics discussed like

- Interview
- CV preparation.
- FAQs in Interviews

Higher Studies

Dr. S. SUDHA

Vice-Chancellor

Department of

J.J. College of Arts and Science (Autonomous)
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Dec 2022 - 2023

Notes of LessonName of The Mentor : Nithya . SDepartment : Computer Science

TIME TABLE					
Hour \ Day	I	II	III	IV	V
D1			←	IA MCA old Lab	→
D2	IA		IIIA	II PG	
D3		IA	IIB		IIIA
D4	IIIA		IA	IIB	
D5	IA		II PG		IIIA
D6	IA		IIB	IIB	II PG

IA - Data Structure & Algorithms :- 6 Hrs.

IIIA - Soft Skills :- 4 Hrs.

II PG - Software Testing :- 3 Hrs.

IIB - Visual Programming :- 2 Hrs.

I-A-Lab :- 3 Hrs

15+3 Hrs

Date :- 23.3.23

Day :- D3

Hour :- V

Topic :- Revision

④ Revision was done on

✓ Important Topics

✓ Important questions

✓ Frequently Asked Two marks & five

Dr. S. SUDHA M.Sc., M.Phil., Ph.D., St.

Vice Principal and Head, marks

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Tips were also discussed.



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Dr. R. BHUVANESWARI
Assistant Professor in
Computer Science
JT College of Arts & Science.

2022 - 2023

NOTES OF LESSON APRIL - 2023

S/N	1	2	3	4	5
D ₁	IPG	IPG		III A	
D ₂		III A		III A Project MCA old Lab	
D ₃		IPG	II A	IPG	
D ₄	IPG		III A	IPG	
D ₅			IPG	III A	
D ₆	III A		IPG	III B Project MCA old Lab	

III A - Micro Processor and its applications

IPG - Data Science and Bigdata Analytics

II PG - Software Quality Assurance and Testing

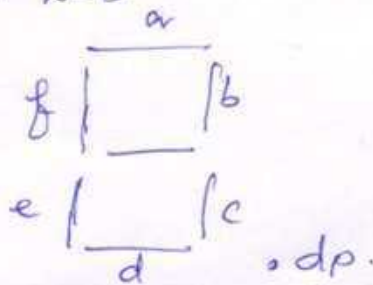
DATE: 20.3.23

CLASS: III A

HRS: D1/4th

TITLE Interfacing of 7 Segment displays

- ⇒ In Seven Segment displays there are Seven light emitting diodes Display.
- ⇒ Each LED Can be Controlled Separately.



- ⇒ 7-Segments Represented of Digits & Common-Cathode 7-Segment Display - Letters. Common-Anode 7-Segment display.

CLASS: III A

DATE: 21.3.23

HRS: D2/3rd

TITLE: Water Level Indicator.

- ⇒ The water level Controller is a reliable circuit it takes over the task of indicating and controlling the water level in the overhead tanks.

- ⇒ This water level Controller - Cum-alarm circuit is configured around the well-known 8 bit processor.

- ⇒ Automating pumping.

- ⇒ The program has been developed to switch on a pump when water level is 20cm or less

than 20cms. The Pump is Switched OFF when water reaches 60 cms.

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✓
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K. Ramesh

Assistant Professor

Dept. of Computer Science

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Dec 2022 - April 2023

D/H	1	2	3	4	5
1	IC		II PU		III B
2	II PU	IC		III B Proj Lab MCA New Lab	
3		III A		IC	II PU
4			III B	IC	
5	IC	III A		II PU	
6	IC DS Lab Kim UFLab				

* Heavy front loading of costs of rent

Automation, management starts to look for
an early Payback.

* Successful rent Automation, management starts

to look for an α endeavors are

characterized by unflicking management

commitment, a clear vision of the goals

and the ability to set realistic Short-term

back

with respect to

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G. Suresh
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U. Nithya M.Sc., M.Phil

Assistant Professor
Department of Computer Science

J. J. College of Arts & Science [du]

Pudukkottai.

[Dec 2022 - April 2023]

D/H	1	2	3	4	5
1		II-A			III-A
2		II-PG	III-C		
3	III-A	II-A		III-A	
4		III-A	II-A	III-A Project Lab MCA old Lab	
5	III-A	II-PG			III-C
6	II-PG		III-A	III-A Project Lab	

II-A - Visual Programming - 3hrs

III-A - Computer Graphics - 6hrs

III-C - Soft Skills - 2hrs

II-PG - SSAT - 3hrs

III-A - Project Lab - 4hrs

4. Put the four lines of code in the appropriate events.

5. Save and run your Program.

6. Move to the last record and then click the Move Next button twice.

20/3/23

D1/2nd hr

Revision - Control Structures in VB

23/3/23

D3/2nd hr

Revision - ~~Standard~~ Controls in VB

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S. ABINAYAKI
 Asst. Prof. in Computer Science
 JJ College of Arts & Science
 (Dec-2022 - Apr-2023)

D/H	1	2	3	4	5
I	III C		I Put	III C Proj lab MCA new	
II	III C	I C	I Put	III C	
III	II Put	III C			I Put
IV		III C	II Put		II Put
V		I Put		III B Proj lab MCA old	
VI		I Put			III C

III C - Computer Graphics &
 Multimedia.

I Put - Mobile computing

II Put - Sgat

Date : 8/3/23

Dayorder : VI

hours : 5

⇒ Revision Test.

~~1 hr~~ * Multimedia Platforms.

~~8/3/23~~

Date : 15/3/23

Dayorder : IV

hours : 2.

→ Images.

* Definition.

* Image file formats.

* Types of Images.

* Importance of Images
in multimedia.

Date : 17/3/23

Dayorder : VI

hours : 5.

→ Development Tools.

* Definition.

* Types of tools are used
in Computer graphics.

* Features of Authoring tools.

→ Editing features.

→ Organizing features.

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* Advantages



SP. Ramechandran.

Microprocessor and its applications.

Dec 2022 - Apr / 2023

$\begin{matrix} H \\ D \end{matrix}$	1	2	3	4	5
I		$\overline{III}_B$	$\overline{III}_C$		I_B
II			$\overline{III}_B$		
III	I_A			$\overline{III}_C$ Project Lab	
IV	$\overline{III}_B$			$\overline{III}_B$	I_B
V		$\overline{III}_B$		I_A	I_C
VI	$\overline{III}_B$		$\overline{III}_C$	I_C	

$\overline{III}$ - Microprocessor and its applications.

I - Environmental science.

MVI A, 44 Green on for east and west.

OUT OA

CALL DELAY 1.

MVI A, 22 Yellow, on for east and west.

OUT OA

MVI A, 02

OUT 09 Yellow on for South

OUT 08 Yellow on for north.

CALL DELAY 1

MVI

A, 11

OA Red on east and west.

OUT

MVI

A, 04

OUT

08

Green for north

OUT

09

Green for South.

DELAY 1

[Signature]
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Yellow on South
Yellow on north.

DELAY - 2

Loop

Imp