

FATIMA COLLEGE

(Autonomous)

Re-Accredited with 'A++' by NAAC (Cycle- IV)
Mary Land, Madurai - 625018.

NAME OF THE DEPARTMENT : UG COMPUTER APPLICATIONS

NAME OF THE PROGRAMME :PGDCA

PROGRAMME CODE :OSCA

ACADEMIC YEAR : 2023-2024

FATIMA COLLEGE CAUTONOMOUS), FLADORAI - 626018 THE MINUTES OF THE BOARD OF STUDIES DEPARTMENT OF COMPUTER APPLICATIONS LEGIL POLICE TO BE IMPLEMENTED FROM 2023-2024 ONWARDS The board of Studies meet for Framing the Syllabus for Dopardment of Computer Applications [BCA & PGIDCA] was held on 03.04.2023 at 1000.Am. The members of the board were, UNIVERSITY NOMINEE CBCAD: Dr. K. SUNDARAVADIVELU, ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, MADURAL KAMARAT UNIVERSITY, MADURAL. UNIVERSITY NOMINEE CPGDCAD: DY. R. RATHINASABAPATHY, ASSOCIATIE PROFESSOR, DEPARTMENT OF COMPOTER APPLICATION SCHOOL OF INFORMATION TECHNOLOGY, MADURAL KAMARAJ UNIVERSITY

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99 1	Dr. M. PUSHPARANI,
2.03	PROFESSOR & HEAD,
	DEPARTMENT OF COMPUTER SCIENCE, 3/4/
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	RESEARCH EXTENSION CENTRE,
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	MEPCO ENGINEERING COLLEGE,
	DEPRENTENT OF COMPOSER SEIZARAIS
	THOUSTRIALIST:
	INDUSTRIALIST:
	Dr. S. BALANURUGIAN
	MANAGINION DIRECTOR,
	ESHA TECHNOLOGIES
	MADURAL.
	DEPARTMENT OF COMPOSE BEPLICONS
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	Marines Kanasan Onmercial
	Mr. A. DIVYASRI,
	SOFTWARE DEVELOPER, A.D.
	BRICKSTEEL TECHNOLOGIES PUT LTD, 3.4.
	MADURAI-16

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	MEMBERS:
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	Ms. K.P. MAHESWARI,
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	Ms. P. RENGIANAYAGA
	AGSISTANT PROFESSOR,
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	ASSISTANT PROFESSOR,
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	In the beginning of the meeting the Head of the
	In the beginning of the meeting the Head of the Deportment Ms. s. Selvarani welcomed all the members
	of the board and briefed them about the current
Consider territorios establismos de la consideración de processor de la consideración	underlying and progress of the department.
	The members of the board expressed their high
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Action Taken Report for 2022-2023

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Bank	for other major students.	Mark Mark College
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16.	Open Source Animation Took	and create motion movies
	was introduced for the birst-	using Alice.
	year BCA students	O Control of the cont
	in the trade	diameter Programmin
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	Content Writing and Video Making	
	was introduced for the second-	
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4.	The Self Lewining course 2136546	To know about R'Language
	Data Science was introduced for	that is widely used to do
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5.	The lab course 21PDB106 - Design	
	Jechniques was introduced.	and to improve employability
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6.	The course 21PDB202 - Python	To gain knowledge in python
	Programming was introduced.	programming and do create
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Minuter of The Board of Studies

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-4/2	Other Suggestions:
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	Computer Hundamentals le Archidecture can be given as
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	, Tanke
1 2	Data Mining & Human Computer Interaction courses
	can be replaced by Digital Principles and Computer
	Organization.
	charac phieth, as the core
3.	Open Source Took Fan be included for programming
	Concepts.
4.	Minimum of the lab granding brick he implied at a
	O S Special Control
	practical courses.
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	Commandations:
	Python can be shifted to I year C III or IV Semeste
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2.	Frameworks like Peach / Angular Is ade. can be included
	in web designing.
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3.	For Software Engineering Cowne Roger. S. Programan book Fan be Followed. Testing Manual Automarked Tools can be
	Fan be Followed. Testing Manual Automated Took can be
	sincluded sol sol more del shulent and al more
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4.	Online courses like MODC, SWAYAM, MPTEL. Courses should
	completed by the students
•	Jork Books utilization to 1
3	Text Books utilization to be given for all cowners.

1	Dr. K. SUNDARAVADIVELU	K. J. Brooms
3.	DY. R. RATHINASABAPATHY	f. f. 14/2023
3.	Dr. M. PUSHPARANI	Jun Cyp 3/4/2023
4.	Mr. V. NEETHIDEVAN	V. M. 2-4. 23.
5.	Dr. S. BALAMURUGAN	Profitions
6.	Ms. A. DIVYASRI	A. Dry 69
٦.	Ms. S. SELVARANI	Slilea July
8.	Ms. RAMYA. R	P 3 T4 123
9.	MS. J. AROCKIA JACKULINE JONI	30123
10.	MS. K. P. MAHESWARI	akprojuling
14.	Ms. P. RENGIANAYASI	P. Rup 3/4/23
12	DY. K. SANGEETHA DEAN OF ACADEMIC AFFAIRS	Dazetto

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

A Post graduate Diploma in Computer Application programme after years will be

PEO 1	PGDCA graduates who will have successful careers based on their understanding of formal and practical methods of Application Development using the concepts of computer programming, software and design principles
PEO 2	PGDCA graduates are provided with practical training, hands-on and project experience to meet the industrial needs.
PEO 3	This programme enrich the students with sound and comprehensive knowledge of widely known programming languages like java, android and python
PEO 4	The program offers specialization in computer science with technical, professional skills along with training to groom future industry professionals.

PROGRAMME OUTCOMES (PO)

On completion (after one year) of PGDCA, the students are able to

PO 1	To learn the latest trends in various subjects of computers applications.
PO 2	To learn computer applications in different fields like banking, insurance, software industry, govt& Corporate sectors.
PO 3	To provides specialisation in computer science with technical, professional and communications skills. It also trains students to become future IT professionals.

PO 4	To design, implement and evaluate a computer-based system, process, component, or programme.
PO 5	To Design and develop applications to analyze and solve all computer related problems.

PROGRAMME SPECIFIC OUTCOMES (PSO)

On completion (after one year) of PGDCA, the students are able to

PSO 1	To expose the students to open Source technologies so that they become familiar with it and can seek appropriate opportunity in trade and industry
PSO 2	To the ability to employ modern computer languages and graphics editor for their successful career, to create platforms to become an entrepreneur and a relish for higher studies.
PSO 3	To train themselves professionally in the areas of programming, multimedia, animation, web designing, and networking and to acquire knowledge in various domains based electives.
PS0 4	Togenerateideasofinnovation and to identify, formulateandsolveproblemsinsoftware solutions, outsourcingservices, publicand private sectors.
PSO 5	ToequipthestudentstomeettherequirementofCorporate worldandIndustrystandards.

FATIMA COLLEGE (AUTONOMOUS), MADURAI-18 PGDCA

PROGRAMME CODE:OSCA

COURSE CODE	COURSE TITLE		CREDIT	CIA Mks	ESE Mks	TOT. MKs		
SEMESTER – I								
19PDB101	Computer Fundamentals	3	3	25	75	100		
23PDB102	Problem solving using C and C++	3	3	25	<mark>75</mark>	100		
19PDB103	Web Designing	3	3	<mark>25</mark>	<mark>75</mark>	100		
23PDB104	Lab –I Programming in C and C++	3	2	<mark>25</mark>	<mark>75</mark>	100		
19PDB105	Lab –II Web Programming	3	2	<mark>25</mark>	<mark>75</mark>	100		
19PDB106	Lab –III Design Techniques	3	2	25	75	100		
19PDB107	Mini Project	-	4	25	75	100		
Total		18	19					
	SEMESTE	ER – II						
19PDB201	Database Management System	4	3	25	75	100		
21PDB202	Python	4	3	25	75	100		
19PDB203	Lab -IV RDBMS		2	25	75	100		
21PDB204	Lab –V Python Programming		2	25	75	100		
19PDB205	Project		4	25	75	100		
19PDB206	Internship (1month)	-	5	100	-	100		
Total		18	19	-	-	-		

OFF-CLASS PROGRAMME

Courses	Hrs.	Credits	Semester in which the course is offered	CIA Mks	ESE Mks	Total Marks
COMPUTER APPLICATIONS For I Semester – UG SCIENCE (I Yr)	45	2	I	100	-	100
COMPUTER APPLICATIONS For II Semester – UG ARTS (I Yr)	45	2	II	100	-	100
TOTAL	90	4		100		100

• Lab Courses:

o A range of 10-15 exercises per semester

• Internship:

 Duration-1 month (2nd Week of Feb to 2nd week of Marbefore college gets closed)

• Project:

 Evaluation components-Report writing + Viva Voce (Internal marks-40) + External marks 60

OLD-40%

PGDCA SEMESTER -I

PROGRAMME CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
OSCA	19PDB102	Problem Solving Using C	THEORY	3HRS	3

COURSE DESCRIPTION:

To develop programs using C programming language, in order to solve simple to moderate problems.

COURSE OBJECTIVE:

- To introduce and form a firm foundation in programming.
- To stress the importance of clarity, simplicity the efficiency in writing

UNIT I: INTRODUCTION TO 'C'

(6HRS)

Overview of C-Constants, Variables and Datatypes – Operators and Expression – Managing Input and output Operators.

UNIT II: DECISION MAKING, BRANCHING AND LOOPING (6HRS)

Simple If Statement - The if else Statement - Nesting of if...else statement - The Else if Ladder - The Switch Statement - The Conditional Operator - The GOTO Statements - The while Statements - The DO Statements - The For Statements - Jump in Loops.

UNIT III: ARRAYS, STRINGS & FUNCTIONS

(6HRS)

One Dimensional Arrays - Two Dimensional Arrays - Initializing Two Dimensional Arrays - Multi - Dimensional Arrays. Declaring and Initializing and String Variables - Reading and Writing of Strings - Comparison of Two Strings.

UNIT IV: FUNCTION DEFINITION

(6HRS)

Elements of User-defined Functions – Definition of Functions – Function Calls – Function Declaration – Category of Function – Recursion

UNIT V: STRUCTURES AND POINTERS

(6HRS)

Definition - Giving Values to Members - Structure Initialization - Comparison of Structure Variables - Array of Structures - Declaring and Initializing Pointers - Accessing a Variable through Pointers - Pointer Expression.

TEXT BOOK: Programming in ANSI C - E.Balagurusamy, Tata McGraw-Hill Publications. Edition: - 5th Edition.

Chapters:1-12. (Except – 10.9, 10.10, 10.11)

REFERENCE BOOK: Programming with C - Byron S.Gottfried, Tata McGraw - Hill Publications.

COURSE CONTENTS & LECTURE SCHEDULE:

PROBLEM SOLVING USING C& C++ - 19PDB102										
Module No.	Topic	No. of Lectures	Teaching Pedagogy	Teaching Aids						
	UNIT -I INTRODUCTION TO C									
1.1	C fundamentals Character set - Identifier and keywords - data types - constants - Variables - Declarations		Lecture	PPT & White board						
1.2	Operators and Expression – Managing Input and output Operators	1	Lecture	PPT & White board						
1.3	Simple If Statement - The if else Statement - Nesting of ifelse statement - The Else if	1	Lecture	PPT & White board						

	Ladder - The Switch Statement			
1.4	The Conditional Operator – The GOTO Statements – The while Statements	1	Lecture	LCD
1.5	The DO Statements – The For Statements – Jump in Loops.	1	Lecture	PPT
	UNIT -II ARRAYS, STR	INGS & FU	INCTIONS	
2.1	One Dimensional Arrays - Two Dimensional Arrays	1	Lecture	PPT & White board
2.2	Initializing Two Dimensional Arrays - Multi - Dimensional Arrays.	2	Lecture	PPT & White board
2.3	Declaring and Initializing and String Variables	1	Lecture	PPT & White board
2.4	Reading and Writing of Strings	1	Lecture	Smart Board
2.5	Comparison of Two Strings.	1	Lecture	PPT
	UNIT III:FUNCTION I	DEFINITION	ī	
3.1	Elements of User-defined Functions	1	Lecture	PPT & White board
3.2	Definition of Functions.	1	Lecture	PPT & White board
3.3	Function Calls	1	Lecture	PPT & White board
3.4	Function Declaration	1	Lecture	Smart Board
3.5	Category of Function	1	Lecture	PPT

3.6	Recursion	1	Lecture	PPT & White board
	UNIT -IV INTROD	UCTION TO	C++	
4.1	Elements of User-defined	1	Lecture	PPT & White board
4.2	Definition of Functions	1	Lecture	PPT & White board
4.3	Functions Function Calls – Function Declaration	1	Lecture	PPT & White board
4.4	Category of Function	2	Lecture	Smart Board
4.5	Recursion	1	Lecture	PPT
	UNIT -V INH	ERITANCE		
5.1	Definition - Giving Values to Members	2	Lecture	PPT & White board
5.2	Structure Initialization - Comparison of Structure Variables	1	Lecture	PPT & White board
5.3	Array of Structures - Declaring and Initializing Pointers	1	Lecture	PPT & White board
5.4	Accessing a Variable through Pointers	1	Lecture	Smart Board
5.5	Pointer Expression	1	Lecture	PPT

INTERNAL - PG

	C 1	C2	СЗ	C4	C5	Total Scholasti c Marks	Non Scholasti c Marks C6	CIA Tota 1	% of
Levels	Т1	T2	Quiz	Assig nme nt	OBT / PPT			40	Assessment
	10 M ks	10 Mks.	5 Mks.	5 Mks	5 Mks	35 Mks.	5 Mks.	Mks	
K1	2	2	-	-	-	4	-	4	10 %
K2	2	2	5	-	-	9	-	9	22.5 %
К3	3	3	-	-	5	11	-	11	27.5 %
K4	3	3	-	5	-	11	-	11	27.5 %
Non Scholastic	-	-	-	-	ı		5	5	12.5 %
Total	1 0	10	5	5	5	35	5	40	100 %

END SEMESTER - PG

Levels	Section A (i)	Sectio n A (ii)	Section B	Section C	Section D	Section E	Total	
	5 Mks.	5 Mks	8 Mks.	12 Mks	20 Mks.	10 Mks.	60Mks.	
K1	5	5	-	4	-	-	14	23.33 %
K2	-	-	8	4	-	-	12	20 %
К3	-	-	-	-	20	-	20	33.33 %

K4	-	-	-	4	-	10	14	23.34 %
Total	5	5	8	12	20	10	60	100 %

CIA

Scholastic	35
Non Scholastic	5
	40

EVALUATION PATTERN

	SC	HOLAS	TIC		NON - SCHOLASTIC	MARKS		
C1	C2	СЗ	C4	C5	C6	CIA ESE To		Total
10	10	5	5	5	5	40	60	100

PG CIA Components

			Nos		
C1	-	Test (CIA 1)	1		10 Mks
C2	-	Test (CIA 2)	1		10 Mks
C3	-	Assignment	1		5 Mks
C4	-	Open Book Test/PPT	2 *	-	5 Mks
C5	-	Quiz	2 *	-	5 Mks
C6	_	Attendance		_	5 Mks

^{*}The best out of two will be taken into account

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	PSOs ADDRESSED
CO 1	Understand the basic concepts in C	K 1	PSO1&PSO2
CO 2	Explain the functionalities of arrays and strings	K1, K2,	PSO3
CO 3	Understand the usage and implementations of functions	K1 & K3	PSO5
CO 4	Understand the basic concepts of C++	K1, K2, K3 &	PSO4
CO 5	Outline the concept of inheritance	K2 & K4	PSO5

Mapping COs Consistency with PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	1	1	1
CO2	3	3	3	1	3
соз	2	2	3	3	1
CO4	2	2	3	3	1
CO5	2	3	1	3	1

Mapping of COs with POs

CO/ PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	1	1	1
CO2	1	1	3	1	2

соз	1	2	1	3	1
CO4	1	1	1	2	1
CO5	1	3	1	1	1

Note:

- ♦ Strongly Correlated **3**
- ♦ Moderately Correlated 2
- ♦ Weakly Correlated -1

COURSE DESIGNER:

STAFF NAME:

- 1. AROCKIA JACKULINE JONI J
- 2. MAHESWARI K P

Selvara

FORWARDED BY HOD'S SIGNATURE

PGDCA SEMESTER -I

NEW

PROGRAMME CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
OSCA	23PDB102	Problem Solving Using C and C++	THEORY	3HRS	3

COURSE DESCRIPTION:

To develop programs using **C programming** language, in order to solve simple to moderate problems.

COURSE OBJECTIVE:

- To introduce and form a firm foundation in programming.
- To stress the importance of clarity, simplicity the efficiency in writing

UNIT I:INTRODUCTION TO 'C'& DECISION MAKING LOOPING (6HRS)

Overview of C-Constants, Variables and Datatypes – Operators and Expression – Managing Input and output Operators-Simple If Statement - The if else Statement - Nesting of if...else statement - The Else if Ladder - The Switch Statement - The Conditional Operator – The GOTO Statements – The while Statements – The DO Statements – The For Statements.

UNIT II:ARRAYS, STRINGS & FUNCTIONS

(6HRS)

One Dimensional Arrays - Two Dimensional Arrays - Initializing Two Dimensional Arrays - Multi - Dimensional Arrays. Declaring and Initializing and String Variables - Reading and Writing of Strings - Comparison of Two Strings.

UNIT III:FUNCTION DEFINITION

(6HRS)

Elements of User-defined Functions – Definition of Functions – Function Calls – Function Declaration – Category of Function – Recursion

UNIT IV: INTRODUCTION TO C++

(6HRS)

Basic concept of OOP, Comparison of Procedural Programming and OOP, Benefits of OOP, C++ compilation, Abstraction, Encapsulation, Inheritance, Polymorphism, Difference between C and C++.

UNIT V: FILE HANDLING

(6HRS)

File classes, Opening and Closing a file, File modes, Manipulation of file pointers, Functions for I/O operations.

TEXT BOOK:

- **1.** Programming in ANSI C E.Balagurusamy, Tata McGraw-Hill Publications. Edition: 5th Edition.
- **2.** E.Balagurusamy: Object oriented programming with C++, Tata McGraw-Hill Publications. Edition:- 6th Edition.

REFERENCE BOOK:

- 1. Programming with C Byron S.Gottfried, Tata McGraw Hill Publications.
- 2. The C++ Programming Language- BjarneStroustrup. Edition: 4th Edition

TEXT BOOK:

- **3.** Programming in ANSI C E.Balagurusamy, Tata McGraw-Hill Publications. Edition: 5th Edition.
- **4.** E.Balagurusamy: Object oriented programming with C++, Tata McGraw-Hill Publications. Edition:- 6th Edition.

REFERENCE BOOK:

- 1. Programming with C Byron S.Gottfried, Tata McGraw Hill Publications.
- 2. The C++ Programming Language- BjarneStroustrup. Edition: 4th Edition

COURSE CONTENTS & LECTURE SCHEDULE:

	PROBLEM SOLVING USIN	G C& C++	- 19PDB102	
Module No.	Topic	No. of Lectures	Teaching Pedagogy	Teaching Aids
	UNIT -I INTROD	UCTION TO	ос	
1.1	C fundamentals Character set - Identifier and keywords - data types - constants - Variables - Declarations	1	Lecture	PPT & White board
1.2	Operators and Expression – Managing Input and output Operators	1	Lecture	PPT & White board
1.3	Simple If Statement - The if else Statement - Nesting of ifelse statement - The Else if Ladder - The Switch Statement		Lecture	PPT & White board
1.4	The Conditional Operator – The GOTO Statements – The while Statements	1	Lecture	LCD
1.5	The DO Statements – The For Statements – Jump in Loops.	1	Lecture	PPT
	UNIT -II ARRAYS, STR	INGS & FU	INCTIONS	
2.1	One Dimensional Arrays - Two Dimensional Arrays	1	Lecture	PPT & White board
2.2	Initializing Two Dimensional Arrays - Multi - Dimensional Arrays.	2	Lecture	PPT & White board

2.3	Declaring and Initializing and String Variables	1	Lecture	PPT & White board
2.4	Reading and Writing of Strings	1	Lecture	Smart Board
2.5	Comparison of Two Strings.	1	Lecture	PPT
	UNIT III:FUNCTION I	DEFINITION	Г	
3.1	Elements of User-defined Functions	1	Lecture	PPT &White board
3.2	Definition of Functions.	1	Lecture	PPT & White board
3.3	Function Calls	1	Lecture	PPT & White board
3.4	Function Declaration	1	Lecture	Smart Board
3.5	Category of Function	1	Lecture	PPT
3.6	Recursion	1	Lecture	PPT & White board
	UNIT -IV INTRODU	UCTION TO	C++	
4.1	Basic concept of OOP, Comparison of Procedural Programming and OOP	1	Lecture	PPT & White board
4.2	Benefits of OOP, C++ compilation	1	Lecture	PPT & White board
4.3	Abstraction, Encapsulation, Inheritance	1	Lecture	PPT & White board
4.4	Polymorphism	2	Lecture	Smart Board

4.5	Difference between C and C++.	1	Lecture	PPT					
	UNIT -V INHERITANCE								
5.1	File classes.	2	Lecture	PPT & White board					
5.2	Opening and Closing a file,	1	Lecture	PPT & White board					
5.3	File modes	1	Lecture	PPT & White board					
5.4	Manipulation of file pointers	1	Lecture	Smart Board					
5.5	Functions for I/O operations	1	Lecture	PPT					

INTERNAL - PG

	C 1	C2	СЗ	C4	C5	Total Scholasti c Marks	Non Scholasti c Marks C6	CIA Tota 1	% of
Levels	T1	T2	Quiz	Assig nme nt	OBT / PPT	35 Mks.	5 Mks.	40 Mks	Assessment
	M ks	10 Mks.	5 Mks.	5 Mks	5 Mks			•	
K1	2	2	-	-	-	4	-	4	10 %
K2	2	2	5	-	-	9	-	9	22.5 %
К3	3	3	-	-	5	11	-	11	27.5 %

K4	3	3	-	5	-	11	-	11	27.5 %
Non Scholastic	-	-	-	-	-		5	5	12.5 %
Total	1 0	10	5	5	5	35	5	40	100 %

END SEMESTER - PG

Levels	Section A (i)	Sectio n A (ii)	Section B	Section C	Section D	Section E	Total	
	5 Mks.	5 Mks	8 Mks.	12 Mks	20 Mks.	10 Mks.	60Mks.	
K1	5	5	ı	4	ı	ı	14	23.33 %
K2	ı	-	8	4	ı	ı	12	20 %
К3	ı	-	1	ı	20	ı	20	33.33 %
K4	1	-	ı	4	-	10	14	23.34 %
Total	5	5	8	12	20	10	60	100 %

CIA

Scholastic	35
Non Scholastic	5
	40

EVALUATION PATTERN

SCHOLASTIC		NON - SCHOLASTIC		MARKS				
C1	C2	СЗ	C4	C5	C6	CIA	ESE	Total

10 10 5 5 5 5 40 60	100	60	40	5	5	5	5	10	10	
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PG CIA Components

			Nos		
C1	-	Test (CIA 1)	1		10 Mks
C2	-	Test (CIA 2)	1	-	10 Mks
C3	-	Assignment	1	-	5 Mks
C4	-	Open Book Test/PPT	2 *		5 Mks
C5	-	Quiz	2 *	-	5 Mks
C6	-	Attendance		=	5 Mks

^{*}The best out of two will be taken into account

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	PSOs ADDRESSED
CO 1	Understand the basic concepts in C	K 1	PSO1& PSO2
CO 2	Explain the functionalities of arrays and strings	K1, K2,	PSO3
CO 3	Understand the usage and implementations of functions	K1 & K3	PSO5
CO 4	Understand the basic concepts of C++	K1, K2, K3 &	PSO4

CO 5 Outline the concept of inheritance	K2 & K4	PSO5
---	---------	------

Mapping COs Consistency with PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	1	1	1
CO2	3	3	3	1	3
соз	2	2	3	3	1
CO4	2	2	3	3	1
CO5	2	3	1	3	1

Mapping of COs with POs

CO/ PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	1	1	1
CO2	1	1	3	1	2
соз	1	2	1	3	1
CO4	1	1	1	2	1
CO5	1	3	1	1	1

Note:

- ♦ Strongly Correlated **3**
- ♦ Moderately Correlated 2
- ♦ Weakly Correlated -1

COURSE DESIGNER:

STAFF NAME:

- 3. AROCKIA JACKULINE JONI J
- 4. MAHESWARI K P

Selvara

FORWARDED BY

HOD'S SIGNATURE

PGDCA SEMESTER -I

OLD-10%

PROGRAMME CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDI TS
OSCA	19PDB103	WEB DESIGNING	THEORY	3HRS	<mark>3</mark>

COURSE DESCRIPTION:

To provide the student with foundational programming knowledge and skills for application development on the Internet.

COURSE OBJECTIVE:

• To teach the basic concept of designing a webpage.

UNIT I: INTRODUCTION TO HTML:

(6HRS)

Information Files Creation-Web Server-Web Client/Browser-Internet & Intranet-HTML-Commonly Used HTML Commands-Structure of an HTML Program, Titles

and Footers, Text Formatting, Emphasizing Material in a Webpage, Text Styles and Other Text Effects.

UNIT II: TEXT FORMATTING AND TABLES (6HRS)Text

Formatting – EmphasizingMaterialina Webpage – TextStylesandOtherText Effects – Typesof Lists.

UNIT III: GRAPHICS, FRAMES AND JAVA SCRIPT(6HRS)

Wri

ting First Java Script, External JavaScript, Variables: Rules for variable names, Declaring the variable, Assign a value to a variable, Adding Graphics to HTML Documents – Tables – Linking Documents - Frames.

UNIT IV: (6HRS)

JAVASCRIPT DOCUMENT OBJECT MODEL:Introduction-Assisted Style Sheets DOM[JSSS DOM]- Understanding Objects in HTML- Browser Objects-Object Hierarchy-Handling Events. Forms used by a Website: Form Object-Other Built-in Objects in JavaScript-User Defined Objects.

UNIT V: (6HRS)

DYNAMIC HTML: Cascading Style Sheets: Font, Color& Background, Text, Border, Margin Related and Text Attributes – Use of Class.

Text Books:

- 1. "Web enabled commercial Application development using HTML, JAVA Script, DHTML and PHP" Ivan Bayross, 4th Edition, BPB Publications.
- 2. Alexis Leon, Mathews Leon, "Fundamentals of Information Technology", Leon Press, 1999

Chapters:

Book 1: 2-10 & 12.

Book 2: 21(21.1-21.17), 23(23.1-23.4)

Reference Book:

"Web Designing with HTML, JAVA Script, VB Script &Int-to Ecommerce Networking Internet", Lokesh Vats, Cyber Tech Publication New Delhi 2003.

OER REFERENCES:

https://nptel.ac.in/courses/106/105/106105084/

COURSE CONTENTS & LECTURE SCHEDULE:

	WEB DESIGNING - 19PDB103									
Module No.	Topic	No. of Lectures	Teaching Pedagogy	Teaching Aids						
	UNIT -I INTRODUC	CTION TO	HTML							
1.1	Information- Files Creation	1	Lecture	PPT & White board						
1.2	WebServer- WebClient/Browser - Internet & Intranet	1	Lecture	PPT & White board						
1.3	HTML –Commonly Used HTML Commands	1	Lecture	PPT & White board						
1.4	Structure of an HTML Program	1	Lecture	LCD						
1.5	Titles and Footers.	1	Lecture	PPT						
	UNIT -II TEXT FORM	ATTING &	TABLES							
2.1	Text Formatting	1	Lecture	PPT & White board						
2.2	Emphasizing Material in aWebpage	2	Lecture	PPT & White board						
2.3	Text Styles.	1	Lecture	PPT & White board						
2.4	Other Text Effects	1	Lecture	Smart Board						

2.5	Types of Lists	1	Lecture	PPT
	UNIT III: GRAPHI	CS & FRA	MES	
3.1	Adding Graphics to HTML Documents	2	Lecture	PPT & White board
3.2	Tables	1	Lecture	PPT & White board
3.3	LinkingDocuments.	1	Lecture	PPT & White board
3.4	Frames	2	Lecture	Smart Board
	UNIT -IVJAVASCRIPT DOC	UMENT OE	JECT MODEL	•
4.1	Introduction-Assisted Style Sheets DOM[JSSS DOM]- Understanding Objects in HTML	1	Lecture	PPT & White board
4.2	Browser Objects-Object	1	Lecture	PPT & White board
4.3	HierarchyHandling Events.	1	Lecture	PPT & White board
4.4	Forms used by a Website:	2	Lecture	Smart Board
4.5	Form Object-Other Built-in Objects in JavaScript-User Defined Objects.	1	Lecture	PPT
	UNIT -V DYNA	міс нтм	L	
5.1	Cascading Style Sheets	2	Lecture	PPT & White board

5.2	Font, Color& Background	1	Lecture	PPT &White board
5.3	Text, Border, Margin	1	Lecture	PPT & White board
5.4	Related and Text Attributes	1	Lecture	Smart Board
5.5	Use of Class	1	Lecture	PPT

INTERNAL - PG

	C1	C2	СЗ	C4	C5	Total Scholasti c Marks	Non Scholasti c Marks C6	CIA Tota 1	% of
Levels	T1	T2	Quiz	Assig nmen t	OBT/ PPT	35 Mks.	5 Mks.	40 Mks	Assessment
	M	10	E 3.61	5	5				
	ks	Mks.	5 Mks.	Mks	Mks				
	٠								
K1	2	2	-	-	-	4	-	4	10 %
K2	2	2	5	-	-	9	-	9	22.5 %
К3	3	3	-	-	5	11	-	11	27.5 %
K4	3	3	-	5	-	11	-	11	27.5 %
Non Scholastic	-	-	-	-	-		5	5	12.5 %
Total	10	10	5	5	5	35	5	40	100 %

END SEMESTER - PG

Levels	Section A (i) 5 Mks.	Sectio n A (ii) 5 Mks	Section B 8 Mks.	Section C 12 Mks	Section D 20 Mks.	Section E	Total	
	5 MKS.	5 WIKS	o wiks.	12 IVIKS	ZU IVIKS.	10 MKS.	ouiviks.	
K1	5	5	-	4	1	-	14	23.33 %
K2	-	_	8	4	-	-	12	20 %
К3	-	_	-	-	20	-	20	33.33 %
K4	-	-	-	4	-	10	14	23.34 %
Total	5	5	8	12	20	10	60	100 %

CIA

Scholastic	35
Non Scholastic	5
	40

EVALUATION PATTERN

	SC	HOLAS	TIC		NON - SCHOLASTIC	MARKS		
C1	C2	СЗ	C4	C5	C6	CIA	CIA ESE 1	
10	10	5	5	5	5	40	60	100

PG CIA Components

Nos

C1 - Test (CIA 1) 1 - 10 Mks

C2	-	Test (CIA 2)	1	-	10 Mks
C3	-	Assignment	1	-	5 Mks
C4	_	Open Book Test/PPT	2 *	_	5 Mks
C5	-	Quiz	2 *	-	5 Mks
C6	_	Attendance		_	5 Mks

^{*}The best out of two will be taken into account

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	PSOs ADDRESSED
CO 1	Understand the basic concepts in HTML	K 1	PSO1& PSO2
CO 2	Explain the Text formatting & Tables	K1, K2,	PSO3
CO 3	Understand the usage and implementations of Graphics and frames	K1 & K3	PSO5
CO 4	Understand the Script in PHP	K1, K2, K3 &	PSO4
CO 5	Outline the database connectivity	K2 & K4	PSO5

Mapping COs Consistency with PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	1	1	1
CO2	3	3	3	1	3
соз	2	2	3	3	1

CO4	2	2	3	3	1
CO5	2	3	1	3	1

Mapping of COs with POs

CO/ PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	1	1	1
CO2	1	1	3	1	2
соз	1	2	1	3	1
CO4	1	1	1	2	1
CO5	1	3	1	1	1

Note:

- ♦ Strongly Correlated **3**
- ♦ Moderately Correlated 2
- ♦ Weakly Correlated -1

COURSEDESIGNER:

STAFFNAME:1. MAHESWARI K P

FORWARDEDBY

Selvara

HOD'SSIGNATURE

NEW

PGDCA SEMESTER -I

PROGRAMM	COURSE	COURSE	CATEGORY	HRS/WEE	CREDIT
E CODE	CODE	TITLE		K	S
OSCA	19PDB103	WEB DESIGNING	THEORY	3HRS	3

COURSE DESCRIPTION:

To provide the student with foundational programming knowledge and skills for application development on the Internet.

COURSE OBJECTIVE:

• To teach the basic concept of designing a webpage.

UNIT I:INTRODUCTION TO HTML

(6HRS)

Information- FilesCreation-WebServer-WebClient/Browser – Internet&Intranet – HTML –CommonlyUsedHTMLCommands-Structure of an HTML Program - Titles and Footers.

UNIT II: TEXT FORMATTING AND TABLES

(6HRS)Text

Formatting – EmphasizingMaterialina Webpage – TextStylesandOtherText Effects – Typesof Lists.

UNIT III: GRAPHICS, FRAMES AND JAVA SCRIPT(6HRS)

Wri

ting First Java Script, External JavaScript, Variables: Rules for variable names, Declaring the variable, Assign a value to a variable, Adding Graphics to HTML Documents – Tables – Linking Documents - Frames.

UNIT IV: INTRODUCTION TO PHP

(6HRS)

What does PHP do? – History – Installing PHP – Language basics – Data types – Variables – Expressions & Operators – Control flow statements – Including code – Embedding PHP in web pages.

UNIT V: DATABASE CONNECTIVITY

(6HRS)

Introduction – Connecting Database – Retrieving data – Updating Data – Deleting Data.

TEXT BOOKS:

"Web enabled commercial Application development using HTML, JAVA Script, DHTML and PHP" Ivan Bayross, 4thEdition, BPB Publications.

WEB REFERENCES:

- 1. https://www.w3schools.com/html/
- 2. https://www.tutorialspoint.com/vbscript/index.htm

OER REFERENCES:

https://nptel.ac.in/courses/106/105/106105084/

COURSE CONTENTS & LECTURE SCHEDULE:

	WEB DESIGNING - 19PDB103								
Module No.	Topic	No. of Lectures	Teaching Pedagogy	Teaching Aids					
UNIT -I INTRODUCTION TO HTML									
1.1	Information- Files Creation	1	Lecture	PPT & White board					
1.2	WebServer- WebClient/Browser - Internet & Intranet	1	Lecture	PPT & White board					
1.3	HTML –Commonly Used HTML Commands	1	Lecture	PPT & White board					
1.4	Structure of an HTML Program	1	Lecture	LCD					
1.5	Titles and Footers.	1	Lecture	PPT					
	UNIT -II TEXT FORM	ATTING &	TABLES						
2.1	Text Formatting	1	Lecture	PPT & White board					
2.2	Emphasizing Material in aWebpage	2	Lecture	PPT & White board					
2.3	Text Styles.	1	Lecture	PPT & White board					
2.4	Other Text Effects	1	Lecture	Smart Board					
2.5	Types of Lists	1	Lecture	PPT					
	UNIT III: GRAPHI	CS & FRAI	MES						

3.1	Adding Graphics to HTML Documents	2	Lecture	PPT & White board
3.2	Tables	1	Lecture	PPT & White board
3.3	LinkingDocuments.	1	Lecture	PPT & White board
3.4	Frames	2	Lecture	Smart Board
	UNIT -IV INTRODU	JCTION TO	PHP	
4.1	What does PHP do? – History	1	Lecture	PPT & White board
4.2	Installing PHP – Language basics	1	Lecture	PPT & White board
4.3	Data types – Variables	1	Lecture	PPT & White board
4.4	Expressions & Operators – Control flow statements	2	Lecture	Smart Board
4.5	Including code – Embedding PHP in web pages.	1	Lecture	PPT
	UNIT -V DATABASE	E CONNEC	rivity	
5.1	(6HRS) Introduction	2	Lecture	PPT & White board
5.2	Connecting Database	1	Lecture	PPT &White board
5.3	Retrieving data	1	Lecture	PPT & White board

5.4	Updating Data	1	Lecture	Smart Board
5.5	Deleting Data	1	Lecture	PPT

INTERNAL - PG

	C1	C2	СЗ	C4	C5	Total Scholasti c Marks	Non Scholasti c Marks C6	CIA Tota 1	% of
Levels	T1	Т2	Quiz	Assig nmen t	OBT/ PPT	35 Mks.	5 Mks.	40 Mks	Assessment
	M	10	5.10	5	5			•	
	ks	Mks.	5 Mks.	Mks	Mks				
K1	2	2	-	-	-	4	-	4	10 %
K2	2	2	5	-	-	9	-	9	22.5 %
К3	3	3	-	-	5	11	-	11	27.5 %
K4	3	3	-	5	-	11	-	11	27.5 %
Non Scholastic	-	-	-	-	-		5	5	12.5 %
Total	10	10	5	5	5	35	5	40	100 %

END SEMESTER - PG

	Levels	Section A (i)	Sectio n A (ii)	Section B	Section C	Section D	Section E	Total		
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	5 Mks.	5 Mks	8 Mks.	12 Mks	20 Mks.	10 Mks.	60Mks.	
K1	5	5	-	4	-	-	14	23.33 %
K2	-	-	8	4	-	-	12	20 %
К3	-	-	-	-	20	-	20	33.33 %
K4	-	-	-	4	-	10	14	23.34 %
Total	5	5	8	12	20	10	60	100 %

CIA

Scholastic	35
Non Scholastic	5
	40

EVALUATION PATTERN

	SC	HOLAS	TIC		NON - SCHOLASTIC	MARKS		
C1	C2	СЗ	C4	C5	С6	CIA ESE Tota		Total
10	10	5	5	5	5	40	60	100

PG CIA Components

			Nos		
C1	-	Test (CIA 1)	1	-	10 Mks
C2	-	Test (CIA 2)	1	-	10 Mks
C3	-	Assignment	1	-	5 Mks
C4	-	Open Book Test/PPT	2 *	-	5 Mks

C5 - Quiz 2 * - 5 Mks

C6 - Attendance - 5 Mks

*The best out of two will be taken into account

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	
CO 1	Understand the basic concepts in HTML	K 1	PSO1& PSO2
CO 2	Explain the Text formatting & Tables	K1, K2,	PSO3
CO 3	Understand the usage and implementations of Graphics and frames	K1 & K3	PSO5
CO 4	Understand the Script in PHP	K1, K2, K3 &	PSO4
CO 5	Outline the database connectivity	K2 & K4	PSO5

Mapping COs Consistency with PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	1	1	1
CO2	3	3	3	1	3
соз	2	2	3	3	1
CO4	2	2	3	3	1
CO5	2	3	1	3	1

Mapping of COs with POs

CO/ PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	1	1	1
CO2	1	1	3	1	2
CO3	1	2	1	3	1
CO4	1	1	1	2	1
CO5	1	3	1	1	1

Note:

- ♦ Strongly Correlated **3**
- ♦ Moderately Correlated 2
- ♦ Weakly Correlated -1

COURSEDESIGNER:

STAFFNAME:1. MAHESWARI K P

Selvara

FORWARDEDBY

HOD'SSIGNATURE

PGDCA SEMESTER -I

OLD-40%

PROGRA MME CODE	COURSE CODE	COURSE TITLE	CATEGOR Y	HRS/W EEK	CREDI TS
OSCA	19PDB104	LAB-I Programmin g in C	Core Practical	3	2

COURSE DESCRIPTION:

To develop programs using C programming language, in order to solve simple to moderate problems.

COURSE OBJECTIVE:

- 1. To develop programming skills in C.To understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc.
- 2. To develop programming skills in C.

PROGRAM LIST:

To develop simple C programs using the following concepts

- Conditional Statements
- Looping Statements
- Arrays
- Strings
- Functions
- Structures
- Pointers
- Files

COURSE CONTENTS & LECTURE SCHEDULE:

Module No.	Topic	No. of Lectures	Teaching Pedagogy	Teaching Aids
	LAB -I PROGRA	MMING IN	C& C++ -19PDB104	
1.1	Conditional Statements	1	Demo & Working in Lab	LCD
1.2	Looping Statements	1	Demo & Working inLab	LCD
1.3	Arrays	1	Demo & Working in Lab	LCD
1.4	Strings	1	Demo & Working in Lab	LCD
1.5	Functions	1	Demo & Working in Lab	LCD
1.6	Structure	1	Demo & Working in Lab	LCD
1.7	Pointer	1	Demo & Working in Lab	LCD
1.8	Files	1	Demo & Working in Lab	LCD

INTERNAL - PG

	C1	C2	C3	C4	C5	Total Scholasti c Marks	Non Scholasti c Marks C6	CIA Tota 1	% of
Levels	Т1	Т2	Quiz	Assig nmen t	OBT/ PPT			40	Assessment
	10 M ks	10 Mks.	5 Mks.	5 Mks	5 Mks	35 Mks.	5 Mks.	Mks	
K1	2	2	-	-	-	4	-	4	10 %

K2	2	2	5	-	-	9	-	9	22.5 %
К3	3	3	-	-	5	11	-	11	27.5 %
K4	3	3	-	5	-	11	-	11	27.5 %
Non Scholastic	-	-	-	-	-		5	5	12.5 %
Total	10	10	5	5	5	35	5	40	100 %

END SEMESTER - PG

Levels	Section A (i)	Sectio n A (ii)	Section B	Section C	Section D	Section E	Total	
	5 Mks.	5 Mks	8 Mks.	12 Mks	20 Mks.	10 Mks.	60Mks.	
K1	5	5	-	4	-	-	14	23.33 %
K2	-	-	8	4	-	-	12	20 %
К3	-	-	1	-	20	ı	20	33.33 %
K4	-	-	1	4	-	10	14	23.34 %
Total	5	5	8	12	20	10	60	100 %

CIA

Scholastic 35

Non Scholastic **5**

40

EVALUATION PATTERN

	SC	HOLAS	TIC		NON - SCHOLASTIC	MARKS		
C1	C2	СЗ	C4	C5	C6	CIA	ESE	Total

10 10 5 5 5 5 40 60	100	60	40	5	5	5	5	10	10	
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PG CIA Components

			Nos		
C1	-	Test (CIA 1)	1	-	10 Mks
C2	-	Test (CIA 2)	1	-	10 Mks
C3	_	Assignment	1	-	5 Mks
C4	-	Open Book Test/PPT	2 *	-	5 Mks
C 5	-	Quiz	2 *	-	5 Mks
C6	_	Attendance		_	5 Mks

^{*}The best out of two will be taken into account

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	PSOs ADDRESSED
CO 1	Understand the conditional and looping statements	K 1	PSO1&PSO2
CO 2	Explain the arrays and string functions	K1, K2,	PSO3
CO 3	Understand the Object and classes	K1 & K3	PSO5
CO 4	Understand the constructor & destructor	K1, K2, K3 &	PSO4
CO 5	Outline the types of inheritance	K2 & K4	PSO5

Mapping COs Consistency with PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	1	1	1
CO2	3	3	3	1	3
соз	2	2	3	3	1
CO4	2	2	3	3	1
CO5	2	3	1	3	1

Mapping of COs with POs

CO/ PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	1	1	1
CO2	1	1	3	1	2
CO3	1	2	1	3	1
CO4	1	1	1	2	1
CO5	1	3	1	1	1

Note:

- ♦ Strongly Correlated **3**
- ♦ Moderately Correlated 2
- ♦ Weakly Correlated -1

COURSEDESIGNER:

STAFFNAME:

1. AROCKIA JACKULINE JONI J

2. MAHESWARI K P

Selvara

FORWARDEDBYHOD'SSIGNATURE

PGDCA SEMESTER -I

PROGRAMME CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
OSCA	23PDB104	Lab –I Programming in C and C++	Core Practical	3HRS	3

COURSE DESCRIPTION

To learn the practical implementation of structured programming using control structures, data structures and functions along with basic problem solving techniques.

COURSE OBJECTIVES

- 1. To learn problem solving through procedural language programming technique
- 2. To understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc.
- 3. To develop programming skills in C and C++.

PROGRAM LIST:

- 1. Write Simple Programs to implement Procedural language.
- 2. Write a C Program to implement Conditional statements.
- 3. Write a C Program to implement looping statements.
- 4. Write a C Program to implement arrays.
- 5. Write a C Program to implement Functions.
- 6. Write a C++ Program to implement Classes and objects.
- 7. Write a C++ Program to implement constructor and destructor.
- 8. Write a C++ Program to implement Files.
- 9. Write a C++ Program to implement types of Inheritance.

10. Write a C++ Program to implement function overloading.

COURSE CONTENTS & LECTURE SCHEDULE:

Module No.	Topic	No. of Lectures	Teaching Pedagogy	Teaching Aids					
	LAB -I PROGRAMMING IN C& C++ -19PDB104								
1.1	Conditional Statements	1	Demo & Working in Lab	LCD					
1.2	Looping Statements	1	Demo & Working inLab	LCD					
1.3	Arrays	1	Demo & Working in Lab	LCD					
1.4	Strings	1	Demo & Working in Lab	LCD					
1.5	Functions	1	Demo & Working in Lab	LCD					
1.6	Classes and objects	1	Demo & Working in Lab	LCD					
1.7	constructor and destructor	1	Demo & Working in Lab	LCD					
1.8	Inheritance	1	Demo & Working in Lab	LCD					

INTERNAL - PG

	C1	C2	СЗ	C4	C5	Total Scholasti c Marks	Non Scholasti c Marks C6	CIA Tota 1	% of Assessment
Levels	T1	T2 10	Quiz	Assig nmen t	OBT/ PPT 5	35 Mks.	5 Mks.	40 Mks	Assessment
	M	Mks.	5 Mks.	Mks	Mks				

	ks								
K1	2	2	-	-	-	4	-	4	10 %
K2	2	2	5	-	-	9	-	9	22.5 %
К3	3	3	-	-	5	11	-	11	27.5 %
K4	3	3	-	5	-	11	-	11	27.5 %
Non Scholastic	-	-	-	-	-		5	5	12.5 %
Total	10	10	5	5	5	35	5	40	100 %

END SEMESTER - PG

Levels	Section A (i) 5 Mks.	Sectio n A (ii) 5 Mks	Section B 8 Mks.	Section C 12 Mks	Section D 20 Mks.	Section E 10 Mks.	Total	
K1	5	5	-	4	-	-	14	23.33 %
K2	-	-	8	4	-	-	12	20 %
К3	-	-	-	-	20	-	20	33.33 %
K4	-	_	-	4	-	10	14	23.34 %
Total	5	5	8	12	20	10	60	100 %

CIA

Scholastic	35
Non Scholastic	5
	40

EVALUATION PATTERN

	SC	HOLAS	TIC		NON - SCHOLASTIC	MARKS		
C1	C2	СЗ	C4	C5	C6	CIA	CIA ESE To	
10	10	5	5	5	5	40	60	100

PG CIA Components

			Nos		
C1	-	Test (CIA 1)	1	-	10 Mks
C2	-	Test (CIA 2)	1	-	10 Mks
C3	-	Assignment	1	-	5 Mks
C4	-	Open Book Test/PPT	2 *	-	5 Mks
C5	-	Quiz	2 *	-	5 Mks
C6	_	Attendance		=	5 Mks

^{*}The best out of two will be taken into account

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	PSOs ADDRESSED
CO 1	Understand the conditional and looping statements	K 1	PSO1&PSO2

CO 2	Explain the arrays and string functions	K1, K2,	PSO3
CO 3	Understand the Object and classes	K1 & K3	PSO5
CO 4	Understand the constructor & destructor	K1, K2, K3 &	PSO4
CO 5	Outline the types of inheritance	K2 & K4	PSO5

Mapping COs Consistency with PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	1	1	1
CO2	3	3	3	1	3
соз	2	2	3	3	1
CO4	2	2	3	3	1
CO5	2	3	1	3	1

Mapping of COs with POs

CO/ PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	1	1	1
CO2	1	1	3	1	2
CO3	1	2	1	3	1
CO4	1	1	1	2	1
CO5	1	3	1	1	1

Note:

- ♦ Strongly Correlated **3**
- ♦ Moderately Correlated **2**
- lacktriangle Weakly Correlated -1

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COURSEDESIGNER:

STAFFNAME:

- 3. AROCKIA JACKULINE JONI J
- 4. MAHESWARI K P

Selvara

FORWARDEDBYHOD'SSIGNATURE

OLD-10%

PGDCA

SEMESTER -I

PROGRAMME CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/WK	CREDITS
OSCA	19PDB105	LAB-II WEB PROGRAMMING	CORE PRACTICAL	3 HRS	<mark>2</mark>

COURSE DESCRIPTION:

- To provide the student with foundational programming knowledge and skills for application development on the Internet.
- To create and design digital images and illustrations for print and Web publication.

COURSE OBJECTIVE:

• To teach the basic concept of designing a webpage.

PROGRAM LIST:

- 1. Write a simple HTML document with the title as HOME PAGE with all basic tags.
- 2. Write a program to have a text and an image as links to another document.
- 3. Create a table with different formats for each column.
- 4. Create a simple Application form.
- 5. Create a Frameset with two frames. In the frames, links should be displayed and in the right the target file of the link should be displayed.
- 6. Create an External Style Sheet, Table Style.

- 7. Built –in Objects.
- 8. User Defined Functions.
- 9. Dialog Boxes.
- 10. Login Form

COURSE CONTENTS & LECTURE SCHEDULE:

LAB –IWEB PROGRAMMING - 19PDB105

Module No.	Topic	No. of Lectures	Teaching Pedagogy	Teaching Aids
1.1	Home page creation	1	Demo & Working in Lab	LCD
1.2	Links and navigation	1	Demo & Working inLab	LCD
1.3	Tables creation	1	Demo & Working in Lab	LCD
1.4	Web forms	1	Demo & Working in Lab	LCD
1.5	Built-in object	1	Demo & Working in Lab	LCD
1.6	User defined function	1	Demo & Working in Lab	LCD
1.7	Dialog box	1	Demo & Working in Lab	LCD
1.8	Login form	1	Demo & Working in Lab	LCD

INTERNAL - PG

Levels	C1	C2	СЗ	C4	C5	Total Scholasti c Marks	Non Scholasti c Marks C6	CIA Tota 1	% of Assessment
	T1	Т2	Quiz	Assig nmen t	OBT/ PPT	35 Mks.	5 Mks.	40 Mks	

	10 M ks	10 Mks.	5 Mks.	5 Mks	5 Mks				
K1	2	2	-	-	-	4	-	4	10 %
K2	2	2	5	-	-	9	-	9	22.5 %
К3	3	3	-	-	5	11	-	11	27.5 %
K4	3	3	-	5	-	11	-	11	27.5 %
Non Scholastic	-	-	-	-	-		5	5	12.5 %
Total	10	10	5	5	5	35	5	40	100 %

11.END SEMESTER - PG

Levels	Section A (i) 5 Mks.	Sectio n A (ii) 5 Mks	Section B 8 Mks.	Section C 12 Mks	Section D 20 Mks.	Section E 10 Mks.	Total	
K1	5	5	-	4	-	-	14	23.33 %
K2	-	-	8	4	-	-	12	20 %
К3	-	-	-	-	20	-	20	33.33 %
K4	-	-	-	4	-	10	14	23.34 %
Total	5	5	8	12	20	10	60	100 %

CIA

Scholastic 35

Non Scholastic 5

EVALUATION PATTERN

SCHOLASTIC				NON - SCHOLASTIC		MARKS		
C1	C2	СЗ	C4	C5	C6	CIA ESE T		Total
10	10	5	5	5	5	40	60	100

PG CIA Components

			Nos		
C1	-	Test (CIA 1)	1		10 Mks
C2	-	Test (CIA 2)	1		10 Mks
СЗ	-	Assignment	1	-	5 Mks
C4	-	Open Book Test/PPT	2 *	-	5 Mks
C 5	=	Quiz	2 *	-	5 Mks
C6	_	Attendance		_	5 Mks

^{*}The best out of two will be taken into account

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	PSOs ADDRESSED
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CO 1	Understand the Webpage creation	K 1	PSO1& PSO2
CO 2	Explain the tables and frames	K1, K2,	PSO3
со з	Understand the Stylesheets	K1 & K3	PSO5
CO 4	Understand the Database creation	K1, K2, K3 &	PSO4
CO 5	Outline the Connectivity with database	K2 & K4	PSO5

Mapping COs Consistency with PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	1	1	1
CO2	3	3	3	1	3
соз	2	2	3	3	1
CO4	2	2	3	3	1
CO5	2	3	1	3	1

Mapping of COs with POs

CO/ PO	PO1	PO2	PO3	PO4	PO5
CO1	3	1	1	1	1
CO2	1	1	3	1	2
CO3	1	2	1	3	1
CO4	1	1	1	2	1
CO5	1	3	1	1	1

Note:

- ♦ Strongly Correlated **3**
- ♦ Moderately Correlated 2
- ♦ Weakly Correlated -1

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COURSEDESIGNER:

STAFFNAME:1MAHESWARI K P

Selvara

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NEW

PGDCA

SEMESTER -I

PROGRAMME CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/WK	CREDITS
OSCA	19PDB105	LAB-II WEB PROGRAMMING	CORE PRACTICAL	3 HRS	<mark>2</mark>

COURSE DESCRIPTION:

- To provide the student with foundational programming knowledge and skills for application development on the Internet.
- To create and design digital images and illustrations for print and Web publication.

COURSE OBJECTIVE:

1. To teach the basic concept of designing a webpage.

PROGRAM LIST:

- 1. Write a simple HTML document with the title as HOME PAGE with all basic tags.
- 2. Write a program to have a text and an image as links to another document.
- 3. Create a table with different formats for each column.
- 4. Create a simple Application form.
- 5. Create a Frameset with two frames. In the frames, links should be displayed and in the right the target file of the link should be displayed.
- 6. Create an External Style Sheet, Table Style.
- 7. Create a Database using MYSQL
- 8. Create a table using MYSQL
- 9. Create a dynamic webpage for student Information System with CRUD operations using PHP & MYSQL
- 10. Create a dynamic webpage for Employee Information System with CRUD

Operations using PHP & MYSQL

COURSE CONTENTS & LECTURE SCHEDULE:

LAB -IWEB PROGRAMMING - 19PDB105

Module No.	Topic	No. of Lectures	Teaching Pedagogy	Teaching Aids
1.1	Home page creation	Home page creation 1 Demo & Working in Lab		LCD
1.2	Links and navigation	1	Demo & Working inLab	LCD
1.3	Tables creation	1	Demo & Working in Lab	LCD
1.4	1.4 Web forms		Demo & Working in Lab	LCD
1.5	Frames creation	1	Demo & Working in Lab	LCD
1.6	Style Sheet	1	Demo & Working in Lab	LCD
1.7	Database and table creation 1 Demo & Working in Lab		Demo & Working in Lab	LCD
1.8	CRUD operations using PHP & MYSQL	1	Demo & Working in Lab	LCD

INTERNAL - PG

	C1	C2	СЗ	C4	C5	Total Scholasti c Marks	Non Scholasti c Marks C6	CIA Tota 1	% of
Levels	T1	Т2	Quiz	Assig nmen t	OBT/ PPT	35 Mks.	5 Mks.	40 Mks	Assessment
	M ks	10 Mks.	5 Mks.	5 Mks	5 Mks			•	
K1	2	2	-	-	-	4	-	4	10 %

K2	2	2	5	-	-	9	-	9	22.5 %
К3	3	3	-	-	5	11	-	11	27.5 %
K4	3	3	-	5	-	11	-	11	27.5 %
Non Scholastic	-	-	-	-	-		5	5	12.5 %
Total	10	10	5	5	5	35	5	40	100 %

END SEMESTER - PG

Levels	Section A (i)	Sectio n A (ii)	Section B	Section C	Section D	Section E	Total	
	5 Mks.	5 Mks	8 Mks.	12 Mks	20 Mks.	10 Mks.	60Mks.	
K1	5	5	-	4	-	-	14	23.33 %
K2	-	_	8	4	-	-	12	20 %
К3	-	-	-	-	20	-	20	33.33 %
K4	-	-	-	4	-	10	14	23.34 %
Total	5	5	8	12	20	10	60	100 %

CIA

Scholastic 35

Non Scholastic **5**

40

EVALUATION PATTERN

SCHOLASTIC				NON - SCHOLASTIC	MARKS			
C1	C2	СЗ	C4	C5	C6	CIA ESE		Total
10	10	5	5	5	5	40 60		100

PG CIA Components

			Nos		
C1	-	Test (CIA 1)	1	-	10 Mks
C2	-	Test (CIA 2)	1	-	10 Mks
СЗ	-	Assignment	1	-	5 Mks
C4	-	Open Book Test/PPT	2 *	-	5 Mks
C5	-	Quiz	2 *	-	5 Mks
C6	_	Attendance		_	5 Mks

^{*}The best out of two will be taken into account

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	PSOs ADDRESSED
CO 1	Understand the Webpage creation	K 1	PSO1& PSO2
CO 2	Explain the tables and frames	K1, K2,	PSO3
со з	Understand the Stylesheets	K1 & K3	PSO5
CO 4	Understand the Database creation	K1, K2, K3 &	PSO4
CO 5	Outline the Connectivity with database	K2 & K4	PSO5

Mapping COs Consistency with PSOs

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO/FSC	LOOT	FSU2	rsos	FOUT	FSUS

CO1	3	3	1	1	1
CO2	3	3	3	1	3
соз	2	2	3	3	1
CO4	2	2	3	3	1
CO5	2	3	1	3	1

Mapping of COs with POs

CO/ PO	PO1	PO2	РО3	PO4	PO5
CO1	3	1	1	1	1
CO2	1	1	3	1	2
CO3	1	2	1	3	1
CO4	1	1	1	2	1
CO5	1	3	1	1	1

Note:

- ♦ Strongly Correlated **3**
- ♦ Moderately Correlated 2
- ♦ Weakly Correlated -1

COURSEDESIGNER:

STAFFNAME:1MAHESWARI K P

Selvara

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