FATIMA COLLEGE (AUTONOMOUS)



Re-Accredited with "A" Grade by NAAC (3rd Cycle) 74th Rank in India Ranking 2021 (NIRF) by MHRD Maryland, Madurai- 625 018, Tamil Nadu, India

NAME OF THE DEPARTMENT: COMPUTER APPLICATIONS

NAME OF THE PROGRAMME: PGDCA

PROGRAMME CODE : OSCA

ACADEMIC YEAR : 2021-2022

FATIMA COLLEGE (AUTONOMOUS), MADURAI - 625018

THE MINUTES OF THE BOARD OF STUDIES

DEPARTMENT OF COMPUTER APPLICATIONS (BLA & POIDCA)

TO BE IMPLEMENTED FROM 2021-2022 DNWARDS

The board of Studies meet for framing the Syllabus for Department of Computer Applications (BCA & PUDEA) Was held on 09-04-2021 at 2.00 pm

The members of the board were,

UNIVERSITY NOMINEE (BCA);

Dr. M. RAMAKRISHNAN,

PROFESSOR & HEAD CHAIR PERSON,

DEPARTMENT OF COMPUTER APPLICATIONS,

SCHOOL OF TNFORMATION TECHNOLOGY,

MADURAL KAMARAJ UNIVERSITY,

MADURAL.

UNIVERSITY NOMINEE (PUIDCA):

DR. M. RAMASWAMI,

PROFESSOR,

DEPARTMENT OF COMPUTER APPLICATIONS,

SCHOOL OF INFORMATION TECHNOLOGY,

MADURAL KAMARAJ UNIVERSITY,

MADURAL

Ms.S. SELVARANI, ASSISTANT PROFESSOR & HEAD, DEPARTMENT OF COMPUTER APPLICATIONS, FATIMA COLLEGE, MADURAI-18 Dr. G. PREETHA ASSISTANT PROFESSOR DEPARTMENT OF COMPUTER APPLICATIONS FATIMA COLLEGE, MADURAL 18 Ms. R. Ramya, ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER APPLICATIONS & FATIMA COLLEGE, MADURAL -18. Ms. J. ARDCKIA FACKULINE JONI, ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER APPLICATIONS, FATIMA COLLEGE MADURAI-18 MS. A. PUNITHA ROSLINE ASSISTANT PROFESSOR DEPARTMENT OF COMPUTER APPLICATIONS, A. P. FOL FATIMA COLLEGE MADURAI - 18

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		POT AND RESEARCH DEPARTMENT OF COMPUTER	SUEN
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80		DEAN OF ACADEMIC AFFAIRS:
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	The Skill based Course 1934SB2 - Financial Accounting Software package Tally Can be replaced with Quantitative Aptitude in order to help them be prepared well for their placements.	Quantitative Aptitude Course was introduced as Skill based.
2.	19JbME6 - Software Testing Can be replaced with Human Computer Interaction.	Human Computer Interaction Course was replaced instead Of Software Testing & few Components from Software Testing was included along with Software Engineering.
3.0	To entend the time duration of the internship program.	The time duration of 10 hours for the Internship mogram has been extented to one month.

DEAN OF ACADEMIC AFFAIRS! MS. A. MABLE JASMINE SHOBA J. Mable Lasmin Shobka. In the beginning of the meeting the Her Of the Department Ms. SELVARAN, Welcomed all members of the board and friefed them abou the mogress of the Department. The members of the board expressed , high appreciation of Satisfaction about the Courses.

CHANDE OF COURSE TITLE - 2020 - 2021

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NEW COURSES INTRODUCED - (2020-2021)

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REVISED COURSES - (2020 - 2021)

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- 1. Open Educational Resources are included in the curriculam.
- 2. REVISION OF COURSES

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4. Introduction of purely Skill-Embedded Certificate/
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6. Rubrics for Internship project

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DETAILS OF PROPOSED/ SIGNED Mous

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SUMMESTIONS! WITH WAR COMMEN

Tor BCA & PUDCA, In Web programming latest technologies like Javeries can be included.

* For Network Security and RDBMs Open Source tools can be used.

* Web programming and Photo editing te chimiques

lab can be given Separately.

* Students can be motivated and encouraged to take Swayam Courses.

COMMENDATIONS:

- WITH DATA INTERPRETATION & LOUICAL REASONING.
- and Os" is to be modified as "computer Fundamentals."
 - * Encel and Wexa lab can be replaced as Design Techniques lab.
- * Instead of Visual basic theory and practical,
 Python Programming and Python lab can be introduced.
- The Enternal Examiners name lists were passed and the board members are satisfied with the name list.
- The detailed Syllabus, textbooks, reference books, and OER to be followed were also discussed with the board members.
- The meeting ended with vote of thanks by Dr. In Preetha.

) .	Dr. M. RAMAKRISHNAN
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3,	Dr. S. Shajun Nisha
4.	Dr. S. PADMAVATHI
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6.	Ms. R. 67. SOBITHA
7.	Ms. S. REENA
8.	Ms. S. SELVARANI Selvara.
9.	Dr. Gr. PREETHA
10.	Ms. R. Ramya
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FATIMA COLLEGE (AUTONOMOUS), MADURAI-18 DEPARTMENT OF PGDCA

PROGRAMME CODE: PDB

COURSE	COURSE TITLE	HR S / WK		CREDI T	CIA Mk s	ES E Mk s	TOT MKs
	SEMEST	ER -	I				
19PDB10 1	Computer Fundamentals	3		3	40	60	100
19PDB10 2	Problem solving using C	3		3	40	60	100
19PDB10 3	Web Designing	3		3	40	60	100
19PDB10 4	Lab –I Programming in C	3		2	40	60	100
19PDB10 5	Lab –II Web Programming	3		2	40	60	100
21PDB10 6	Lab –III Design Techniques	3		2	40	60	100
19PDB10 7	Mini Project	-		4	40	60	100
Total		18		19			
	SEMESTI	ER - :	II				
19PDB20 1	Database Management System		4	3	40	60	100
21PDB20 2	Python Programming		4	3	40	60	100
19PDB20 3	Lab –IV RDBMS		3	2	40	60	100
19PDB20 4	Lab –V Python Programming		3	2	40	60	100

COURSE CODE	COURSE TITLE	s	R / K	(CREDI T	CIA Mk s	ES E Mk s	TOT MKs
19PDB20 5	Project		4		4	40	60	100
19PDB20 6	Internship (1month)		1		5	100	-	100
Total			18		19	-	-	-

OFF-CLASS PROGRAMME

Courses	Hrs ·	Credit s	Semest er in which the course is offered	CIA Mk s	ES E Mk s	Total Mark s
COMPUTER APPLICATIONS For 1 Semester – UG SCIENCE (I Yr)	30	2	I	100	-	100
COMPUTER APPLICATIONS For II Semester – UG ARTS (I Yr)	30	2	II	100	-	100
TOTAL	60	4		100		100

• Lab Courses:

o A range of 10-15 exercises per semester

• Internship:

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

• Project:

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

PGDCA

SEMESTER -I

PROGRAMME CODE	COURSE CODE	COURSE TITLE	CATE GORY	HRS/WEEK	CREDITS
PGD	21PDB106	LAB - III DESIGN TECHNIQUES	PG Core	3	2

COURSE DESCRIPTION

This course gives knowledge on the editing of images and created animated images.

COURSE OBJECTIVE:

- 1. To develop skills for editing and altering photographs through tools, layers, and the adjustments panel.
- 2. To know about basic photo repairs and color enhancements
- 3. To design impressive cards for various occasions.

PHOTO SHOP

- Open an image and modify it using smudge tool.
- Change a Black and White photograph into Color.
- Create an image using gradient fills.
- Import an image and remove the portion from the plain background and fix it in another background.
- Type a text and create plastic effect.
- Create a Web photo gallery.

COREL DRAW

- 1. Design a Logo for Coffee Shop.
- 2. Create a 3 D button for a Web Page.
- 3. Create a Logo for Pepsi Company.
- 4. Create a Logo for Whatsapp.
- 5. Creat a Logo for Olymbic.
- 6. Create the Car Advertisement in Corel Draw.

COURSE CONTENTS & LECTURE SCHEDULE:

Modul e No.	Topic	No. of Lectures	Teaching Pedagogy	Teaching Aids					
LAB III DESIGN TECHNIQUES – 19PDB106									
1.1	Marquee Tool, Crop Tool,Lasso Tool- Move Tool	2	Demo & Working in Lab	LCD					
1.2	Gradient fills	2	Demo & Working in Lab	LCD					
1.3	Rubber, Clone Stamp tool, Eraser Tool, Paint Brush Tool, Art History Brush Tool, Text Tool	2	Demo & Working in Lab	LCD					
1.4	Resizing, Rotating of Images, Sharpen, Blur Filters, Noise Filters, Render Filters	2	Demo & Working in Lab	LCD					
1.5	3D transform	2	Demo & Working in Lab	LCD					
1.6	Introduction, Selecting Objects, Creating Basic Shapes, Reshaping Objects	2	Demo & Working in Lab	LCD					
1.7	Organizing objects, Applying Color fills, Outline -Artistic	2	Demo & Working in Lab	LCD					
1.8	Paragraph Text Formatting, Applying Effects	2	Demo & Working in Lab	LCD					

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	Analyze on the various tools of Photoshop	K 1	PSO1& PSO2
CO 2	Compare different types of filters used in Photoshop	K1, K2	PSO2, PSO4
CO 3	Apply the techniques available in CorelDraw	K1 & K3	PSO4, PSO5
CO 4	Create animated banners and various simple animations	K3& K4	PSO3
CO 5	How to prepare and process photos for the Web?	K2, K3& K4	PSO5

Mapping COs Consistency with PSOs

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

Mapping of COs with POs

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

COURSE DESIGNER

STAFF NAME: 1. RAMYA R

FORWARDED BY

(S.SELVARANI)

Selvara-

HOD'S NAME & SIGNATURE

PGDCA SEMESTER -II

PROGRAMME	COURSE	COURSE	CATE	HRS	CREDITS
CODE	CODE	TITLE	GORY	/WEEK	
OSCA	21PDB202	Python Programming	THEOR Y	4	3

COURSE DESCRIPTION

To enable the students to get better understanding in the OOPS Concept and to have basic knowledge in writing programs using Python Programming.

COURSE OBJECTIVES

- 1. To acquire programming skills in core Python.
- 2. To acquire Object Oriented Skills in Python.
- 3. To develop the skill of designing Graphical user Interfaces in Python.
- 4. To develop the ability to write database applications in Python.

UNIT I: INTRODUCTION TO PYTHON

[6 HRS]

Installation and Working with Python - Understanding Python variables - Python basic Operators - Understanding python blocks - Declaring and using Numeric data types: int, float, complex -Using string data type and string operations - Defining list and list slicing - Use of Tuple data type

UNIT II: PYTHON PROGRAM FLOW CONTROL

[6 HRS]

Conditional blocks using if, else and elif - Simple for loops in python - For loop using ranges, string, list and dictionaries - Use of while loops in python - Loop manipulation using pass, continue, break and else - Programming using Python conditional and loops block

UNIT III: PYTHON FUNCTIONS, MODULES AND PACKAGES [6 HRS]

Organizing python codes using functions - Organizing python projects into modules - Importing own module as well as external modules - Understanding

Packages - Powerful Lamda function in python - Programming using functions, modules and external packages.

UNIT IV: PYTHON STRING, LIST, DICTIONARY MANIPULATIONS [6 HRS]

Building blocks of python programs - Understanding string in build methods - List manipulation using in build methods - Dictionary manipulation - Programming using string, list and - Dictionary in build functions

UNIT V: PYTHON FILE OPERATION

[6 HRS]

Design with functions: hiding redundancy, complexity; arguments and return values; formal vs actual arguments, named arguments - Recursive functions - Understanding read functions, read(), readline() and readlines() - Understanding write functions, write() and writelines() - manipulating file pointer using seek - Programming using file operations

TEXT BOOKS:

- 1. Python Programming Reema Thareja, Oxford University Press, 2017.
- 2. Think Python Allen B.Downey, O'Reilly Publications, 2nd Edition.

REFERENCE BOOK:

1. Exploring Python – Timothy A.Budd, Tata Mc Graw Hill, 2017

Modul e No.	Topic	No. of Lectures	Teaching Pedagogy	Teaching Aids
	UNIT – I INTRODUCTION	ом то рутно) N	
1.1	Installation and Working with Python	2	Chalk & Talk	Black Board
1.2	Python basic Operators	3	Chalk & Talk	LCD
1.3	Declaring and using Numeric data types: int, float, complex	2	Lecture	PPT & White board
1.4	Testing a "Stand Alone" Application Using the command window	2	Lecture	Smart Board
1.5	-Using string data type and string operations	2	Lecture	Smart Board
1.6	Use of Tuple data type	2	Lecture	Smart Board
	UNIT -II PYTHON PROGRA	AM FLOW COM	TROL	
2.1	Organizing python codes using functions	2	Chalk & Talk	Black Board
2.2	Organizing python projects into modules -undocking the windows	2	Chalk & Talk	LCD
2.4	Importing own module as well as external modules	3	Lecture	Smart Board

2.5	Programming using functions,	3	Lecture	Smart Board
2.6	Powerful Lamda function in python	2	Lecture	LCD
2.7	classification of properties	2	Lecture	Smart Board
2.8	Modules and external packages.	2	Lecture	Smart Board
	UNIT III - PYTHON FUNCTIONS, M	IODULES AN	D PACKAGES	
3.1	Organizing python codes using functions	3	Lecture	Smart Board
3.2	Importing own module as well as external modules	3	Lecture	Smart Board
3.3	–Powerful Lambda function in python	3	Lecture	Smart Board
3.4	Auto list members and parameter information	3	Lecture	Smart Board
3.5	Programming using functions	2	Chalk & Talk	Black Board
3.6	External Functions	2	Lecture	Smart Board
3.7	setting run-time properties.	1	Chalk & Talk	LCD
	UNIT IV PYTHON STRING, LIST, DIC	CTIONARY M.	ANIPULATIONS	
4.1	Building blocks of python programs	2	Chalk & Talk	Black Board
4.2	Understanding string in build methods	2	Chalk & Talk	LCD

4.3	Arithmetic operators	3	Lecture	PPT & White board
4.4	Data types	2	Lecture	Smart Board
4.5	Programming using string, list	2	Lecture	Black Board
4.6	Dictionary manipulation ,	2	Discussio n	Google classroom
4.7	List manipulation using in build methods	2	Lecture	Black Board
	UNIT V – PYTHON FILE	S OPERATIO	ONS	
5.1	Design with functions: hiding redundancy, complexity.	2	Chalk & Talk	Black Board
5.2	Understanding read functions, read(), readline() and readlines()	3	Chalk & Talk	LCD
5.3	Recursive functions	2	Lecture	PPT & White board
5.4	List-Box Control	3	Lecture	Smart Board
5.5	Arguments and return values; formal vs actual arguments,	3	Lecture	Smart Board
5.6	Understanding write functions, write() and writelines()	2	Lecture	Smart Board
5.7	Named arguments	2	Lecture	Smart Board

5.8	Programming using file operations	2	Lecture	Smart Board
5.9	Manipulating file pointer using seek	2	Lecture	Smart Board

INTERNAL - PG

	C1	C2	СЗ	C4	C5	Total Scholast ic Marks	Non Scholas tic Marks C6	CIA Total	% of
Levels	T1	T2	Semi nar	Assi gn men t	OBT/ PPT				Assess ment
	10 Mks.	10 Mks.	5 Mks.	5 Mk s	5 Mks	35 Mks.	5 Mks.	40 Mks.	
K2	4	4	-	-	-	8	-	8	20 %
К3	2	2	-	5	-	9	-	9	22.5 %
K4	2	2	-	-	5	9	-	9	22.5 %
K5	2	2	5	-	-	9	-	9	22.5 %
Non Scholastic	-	-	-	-	-		5	5	12.5 %
Total	10	10	5	5	5	35	5	40	100 %

END SEMESTER - PG

	Section A	Section B	Section C	Sectio n D	Section E	Total	
Levels	10 Mks	20 Mks.	10 Mks	10 Mks.	10 Mks.	60Mks.	
K2	10	5	-	-	-	15	25 %
К3	-	5	10	-	-	15	25 %
K4	-	5	-	-	10	15	25 %

K5	-	5	-	10	-	15	25 %
Total	10	20	10	10	10	60	100 %

CIA

Scholastic	35
Non Scholastic	5
	40

- ✓ All the course outcomes are to be assessed in the various CIA components.
- ✓ The levels of CIA Assessment based on Revised Bloom's Taxonomy
 for I PG are:

K1- Remember, K2-Understand, K3-Apply, K4-Analyse

✓ The I PG course teachers are requested to start conducting S1, W1, M1.

EVALUATION PATTERN

SCHOLASTIC			NON - SCHOLASTIC	MARKS			
C1	C2	СЗ	C4	C5	CIA	ESE	Total
5	10	15	5	5	40 60 10		100

C1 – Average of Two Session Wise Tests

C2 – Average of Two Monthly Tests

C3 - Mid Sem Test

C4 – Best of Two Weekly Tests

C5 – Non – Scholastic

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	Assess why Python is a useful scripting language for developers.	K1	PSO1& PSO2
CO 2	Identify Python object types.	K1, K2 & K3	PSO1, PSO2, PSO3
CO 3	Illustrate the usage of Lists, tuples, and Dictionaries in Python Programs.	K2, K3 & K4	PSO5
CO 4	Acquire how to design and program Python applications.	K1, K2, K3 & K4	PSO3, PSO5
CO 5	Outline the file operations in Python.	K2, K3 & K4	PSO4, PSO5

Mapping COs Consistency with PSOs

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

COS	2	1	2	2	1
CO3	-	_	-	-	-

Mapping of COs with POs

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

COURSE DESIGNER

STAFF NAME:1. PUNITHA ROSLINE A

FORWARDED BY

(S.SELVARANI)

Silvara

HOD'S NAME & SIGNATURE