

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 COLLEGIF (AUTOMOMOUS), MADURAI - 625018
	THE MINUTES OF THE BOARD OF STUDIES
	PARTMENT OF COMPUTER APPLICATIONS [BCA & PODCA]
	TO BE IMPLEMENTED FROM 2022-2023 DNWARDS
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	DEPARTMENT OF COMPUTER APPLICATIONS,
	SCHOOL OF INFORMATION TECHNOLOGY
	MADURAL KAMARAJ UNIVERSITY
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	Ms. A. Divya Cay
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	Dr. S. SHATUN NISHA
	ASSISTANT PROFESSOR & HEAD, POT & RESEARCH DEPARTMENT DE COMPUTER SUENCE SOCIENCE SONO (D) 15/75
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	SUBJECT EXPERT:
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	Dr. S. PADMAVATHI,
1	PROFESSOR,
1	DEPARTMENT OF INFORMATION TECHNOLOGY,
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The same of the sa	Ms. S. SELVA RANI,
-	ASSISTANT PROFESSOR & HEAD, DEDOSTORENT DE COMPUNES ASSISTANT
	DEPARTMENT OF COMPUTER APPLICATIONS
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and the second second	Dr. G. PREETHO,
	ASSISTANT PROFESSOR,
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1	TATIMA COLLEGE
	MADURAL -18
	Ms. R. Ramya,
	ASSISTANT PROFESSOR,
	DEPARTMENT OF COMPUTER APPLICATIONS,
	FATIMA COLLEGE,
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	T. Torre
7	Ms. J. AROCKIA JACKULINE JONI,
	ASSISTANT PROFESSOR, ADDITED ADDITED ADDITED
-	DEPARTMENT UF COMPUTER TIPE
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	MADURAL -18
	Ms. A. Punitha Rosline W. Fine
	ASSISTANT PROFESSOR,
	DEPARTMENT COMPUTER APPLICATIONS
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	riole and pake their	Techniques (ALICE - Open Source Tool) was introduce
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3.	The Litle for the Course 1970B101 - Computer Fundamentals	Title Change was done and the fundamentals of
	and OS can be replaced with computer Fundamentals.	Operating System Concept was included.
4.	Lab Course 19788105 - web programming and photo	Title Change was done, to get more Knowledge

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3.	1/p/T - Lecture Practical Tutorial Concepts Can be followed in the Syllabus.
4.	Including latest Concepts like Cloud, Ist, Networks and Information Security for Pts Diploma. CommenDations:
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1.	Dr. M. RAMAKRISHNAN	Scanned with OKEN Scanner
2.	Dr. M. RAMASWAM, 7. Ramprami	S
 3.	Dr. S. SHAJUN NISHA	
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 5.	Ms. A. Divya Sai A. Divyay	
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ю.	Mg. J. AROCKIA JACKULINE JONI JAN.	•
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12.	MS. A. MABLE JASMINE SHOBA J. MabliJasmini Shobba. DEAN Of ACADEMIC AFFAIRS. Man.	
	DEAN OF ACADEMY Ag. Celine Sahaye Many 21/3/2022	
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V.		

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	To generate ideas of innovation and to identify, formulate and solve problems in software solutions, outsourcing services, public and private sectors.
PSO 5	To equip the students to meet the requirement of Corporate world and Industry standards.

FATIMA COLLEGE (AUTONOMOUS), MADURAI-18 PGDCA

PROGRAMME CODE: OSCA

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COURSE CODE	COURSE TITLE	HRS / WK	CREDI T	CIA Mks	ESE Mks	TOT. MKs
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19PDB101	Computer Fundamentals	3	3	40	<mark>60</mark>	100
23PDB102	Problem solving using C and C++	3	3	40	60	100
19PDB103	Web Designing	3	3	40	60	100
23PDB104	Lab –I Programming in C and C++	3	2	40	60	100
19PDB105	Lab –II Web Programming	3	2	<mark>40</mark>	<mark>60</mark>	100
19PDB106	Lab –III Design Techniques	3	2	40	60	100
19PDB107	Mini Project	-	4	40	60	100
Total		18	19			
	SEMI	ESTER -	II			
19PDB201	Database Management System	4	3	40	60	100
21PDB202	Python	4	3	40	60	100
19PDB203	Lab –IV RDBMS	3	2	40	60	100
21PDB204	Lab –V Python Programming	3	2	40	60	100
19PDB205	Project & viva voce	4	4	40	60	100
19PDB206	Internship (1month)	-	5	100	-	100

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PGDCA

SEMESTER -I

PROGRAM ME CODE	COURSE CODE	COURSE TITLE	CATEGO RY	HRS	CREDIT S
OSCA	19PDB10 1	COMPUTER FUNDAMENTA LS	THEORY	3	3

COURSE DESCRIPTION

To Study about the concepts, structure and mechanisms of operating systems. To examine the operations of processes and threads, scheduling, deadlock, memory management and file systems.

COURSE OBJECTIVES

- 1. To have in-depth knowledge about the functionalities of the operating systems.
- 2. To learn the mechanisms of OS to handle processes and threads and their communication.
- 3. To learn the mechanisms involved in memory management

To gain knowledge on distributed operating system concepts

UNIT I : INTRODUCTION TO COMPUTER (6HRS)

Introduction—Types of computers-Characteristics of Computers-Classification of Digital Computer Systems-Anatomy of a Digital Computer-Application of IT

(Computers Entertainment, Science and Medicine)

UNIT II: PROCESSES (6HRS)

Introduction: Definition, Main frame System, Multiprocessor System, Distributed systems – Process: Process concept, Process scheduling.

UNIT III: CPU SCHEDULING, PROCESS SYNCHRONIZATION (6HRS)

CPU Scheduling: Basic concepts – scheduling criteria – scheduling algorithms – Process Synchronization: Background – the critical section problem, Semaphores – Usage, Monitors.

UNIT IV: MEMORY MANAGEMENT

(6HRS)

Background – Swapping, Contiguous Memory Allocations, Paging, Segmentation, Segmentation with paging. Background – demand paging – page replacement algorithms.

UNIT V: FILESYSTEM CONCEPTS (6HRS)

File concept – access methods – directory structures – protection – File system structure – allocation methods.

REFERENCE BOOKS:

- 1. Alexis Leon, Mathews Leon, "Fundamentals of Information Technology", Leon Press, 1999.
- 2. Deitel H.M, Operating System, 7th Edition, Pearson Education, 1996
- 3. Silberscahatz Galvin Gagne, Operating System Concept, VI Edition, John Wiley's Sons, 2010.
- 4. Operating System, Concept & Design, II Edition, 2001 TATA McGraw Hill.
- 5. Abraham Silberschatz, Peter Baer Galvin, Operating System Concepts, VII Edition ,2014.

WEB REFERENCES:

- 1. http://Williamstallings.com/os/animations
- 2. https://www.tutorial.com/operating_system/

PGDCA

SEMESTER -I

NEW

PROGRAM ME CODE	COURSE CODE	COURSE TITLE	CATEGO RY	HRS	CREDIT S
OSCA	19PDB10 1	COMPUTER FUNDAMENTA LS	THEORY	3	3

COURSE DESCRIPTION

To Study about the concepts, structure and mechanisms of operating systems. To examine the operations of processes and threads, scheduling, deadlock, memory management and file systems.

COURSE OBJECTIVES

- 4. To have in-depth knowledge about the functionalities of the operating systems.
- 5. To learn the mechanisms of OS to handle processes and threads and their communication.
- 6. To learn the mechanisms involved in memory management

To gain knowledge on distributed operating system concepts

UNIT I :INTRODUCTION TO COMPUTER(6HRS)

Introduction—Types of computers-Characteristics of Computers-Classification of Digital Computer Systems-Anatomy of a Digital Computer-Application of IT

(Computers Entertainment, Science and Medicine)

UNIT	II:	PROCESSES
(6HRS)		

Introduction: Definition, Main frame System, Multiprocessor System, Distributed systems – Process: Process concept, Process scheduling.

UNIT III: CPU SCHEDULING, PROCESS SYNCHRONIZATION (6HRS)

CPU Scheduling: Basic concepts – scheduling criteria – scheduling algorithms – Process Synchronization: Background – the critical section problem, Semaphores – Usage, Monitors.

UNIT IV: MEMORY MANAGEMENT

(6HRS)

Background – Swapping, Contiguous Memory Allocations, Paging, Segmentation, Segmentation with paging. Background – demand paging – page replacement algorithms – allocation of frames – thrashing

UNIT V: FILESYSTEM CONCEPTS (6HRS)

File concept – access methods – directory structures – protection – File system structure – allocation methods.

REFERENCE BOOKS:

- 6. Alexis Leon, Mathews Leon, "Fundamentals of Information Technology", Leon Press, 1999.
- 7. Deitel H.M, Operating System, 7th Edition, Pearson Education, 1996
- 8. Silberscahatz Galvin Gagne, Operating System Concept, VI Edition, John Wiley's Sons, 2010.
- 9. Operating System, Concept & Design, II Edition, 2001 TATA McGraw Hill.
- 10. Abraham Silberschatz, Peter Baer Galvin, Operating System Concepts, VII Edition ,2014.

WEB REFERENCES:

- 1. http://Williamstallings.com/os/animations
- 2. https://www.tutorial.com/operating_system/

PGDCA SEMESTER -I

PROGRAMM	COURSE	COURSE	CATE	HRS/WEE	CREDIT
E CODE	CODE	TITLE	GORY	K	S
OSCA	19PDB1 05	LAB-II Web Programming	PRACTI CAL	3	2

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:

- Write a simple HTML document with the title as HOME PAGE with all basic tags.
- Write a program to have a text and an image as links to another document.
- Create a table with different formats for each column.
- Create a simple Application form.
- 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.
- Create an External Style Sheet, Table Style.
- Built –in Objects.

- User Defined Functions.
- Dialog Boxes.
- Login Form

10%

PGDCA

SEMESTER -I



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- Built –in Objects.

- User Defined Functions.
- Dialog Boxes.
- Login Form
- Captcha Generation using String functions
- validation
- conditional statements in Javascript
- Looping in javascript