



ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY, - PALAI -

Department of Computer Applications INTEGRATED MCA (5 Years)

Curriculum Details- Semester 1 to Semester 10

Semester:1

Slot	Course	Tutorial Hours	Lecture Hours	Practical Hours	Total Hours	Credits
A	ENGLISH	0	4	0	4	4
B	BASIC MATHEMATICS	1	3	0	4	4
C	INTRODUCTION TO PROGRAMMING	1	3	0	4	4
D	INTRODUCTION TO COMPUTERS AND PC HARDWARE	1	3	0	4	4
E	FUNDAMENTALS OF ACCOUNTANCY	1	3	0	4	4
S	OFFICE AUTOMATION LAB	0	0	5	5	1
T	INTRODUCTION - PC HARDWARE LAB	0	0	4	4	1

Semester:2

Slot	Course	Tutorial Hours	Lecture Hours	Practical Hours	Total Hours	Credits
A	TECHNICAL COMMUNICATION	1	3	0	4	4
B	INTRODUCTION TO DISCRETE MATHEMATICS	1	3	0	4	4
C	INTRODUCTION TO DIGITAL SYSTEMS AND LOGIC DESIGNS	1	3	0	4	4
D	PROBLEM SOLVING AND STRUCTURED PROGRAMMING	1	3	0	4	4
R	PERSONALITY DEVELOPMENT AND SOFT SKILLS	1	3	0	4	4
S	PROBLEM SOLVING AND STRUCTURED PROGRAMMING LAB	0	0	5	5	1
T	TECHNICAL COMMUNICATION LAB	0	0	4	4	1

Semester:3

Slot	Course	Tutorial Hours	Lecture Hours	Practical Hours	Total Hours	Credits
A	COMPUTER ORGANIZATION	1	3	0	4	4
B	PROBABILITY AND STATISTICS	1	3	0	4	4
C	INTRODUCTION TO OBJECT ORIENTED PROGRAMMING	1	3	0	4	4
D	ACCOUNTING AND FINANCIAL MANAGEMENT	1	3	0	4	4
E	DATA STRUCTURES	1	3	0	4	4
S	DATA STRUCTURES LAB	0	0	5	5	1
T	BASIC OBJECT ORIENTED PROGRAMMING LAB	0	0	4	4	1

Semester:4

Slot	Course	Tutorial Hours	Lecture Hours	Practical Hours	Total Hours	Credits
A	LINUX / UNIX FUNDAMENTALS	1	3	0	4	4
B	STATISTICAL APPLICATIONS	1	3	0	4	4
C	OPERATING SYSTEMS	1	3	0	4	4
D	ELEMENTS OF BUSINESS MANAGEMENT	1	3	0	4	4
E	INTERNET CONCEPTS AND WEB TECHNOLOGY	1	3	0	4	4
S	SCRIPTING LAB	0	0	5	5	1
T	STATISTICS LAB	0	0	4	4	1

Semester:5

Slot	Course	Tutorial Hours	Lecture Hours	Practical Hours	Total Hours	Credits
A	NUMERICAL METHODS	1	3	0	4	4
B	USER INTERFACE DESIGN	1	3	0	4	4
C	INTRODUCTION TO RDBMS AND SQL	1	3	0	4	4
D	FUNDAMENTALS OF INFORMATION SYSTEMS SECURITY	1	3	0	4	4
E	INTRODUCTION TO OPERATIONS RESEARCH	1	3	0	4	4
S	RDBMS LAB	0	0	5	5	1
T	USER INTERFACE DESIGN LAB	0	0	4	4	1

Semester:6

Slot	Course	Tutorial Hours	Lecture Hours	Practical Hours	Total Hours	Credits
A	INTRODUCTION TO SOFTWARE ENGINEERING	1	3	0	4	4
B	FUNDAMENTALS OF DATA SCIENCE	1	3	0	4	4
C	VISUAL PROGRAMMING	1	3	0	4	4
D	DESIGN AND ANALYSIS OF ALGORITHMS	1	3	0	4	4
R	MINI PROJECT I	0	0	4	4	2
S	OPEN SOURCE PLATFORMS - LAB	1	0	4	5	1
T	VISUAL PROGRAMMING LAB	0	0	4	4	1

Semester:7

Slot	Course	Tutorial Hours	Lecture Hours	Practical Hours	Total Hours	Credits
A	M-COMMERCE	1	3	0	4	4
B	JAVA PROGRAMMING	1	3	0	4	4
C	ADVANCED WEB PROGRAMMING	1	3	0	4	4
D	ADVANCED SOFTWARE ENGINEERING	1	3	0	4	4
E	DISTRIBUTED COMPUTING	1	3	0	4	4
S	JAVA PROGRAMMING - LAB	1	0	3	4	1
T	ADVANCED WEB PROGRAMMING LAB	1	0	3	4	1
W	ENTREPRENEURSHIP AND INNOVATIONS IN TECHNOLOGY	0	0	1	1	0

Semester:8

Slot	Course	Tutorial Hours	Lecture Hours	Practical Hours	Total Hours	Credits
A	ADVANCED DATABASE MANAGEMENT SYSTEMS	1	3	0	4	4
B	ADVANCED COMPUTER NETWORKS	1	3	0	4	4
C	RESEARCH METHODOLOGY	1	3	0	4	4
D	APPLIED STATISTICS	1	3	0	4	4
	ORGANIZATIONAL BEHAVIOUR	1	3	0	4	4
	FUNCTIONAL PROGRAMMING	1	3	0	4	4
	VIRTUALISATION AND CONTAINERS	1	3	0	4	4
	ADVANCED OPERATING SYSTEMS	1	3	0	4	4
E	BUSINESS MANAGEMENT	1	3	0	4	4
	EMBEDDED SYSTEMS	1	3	0	4	4
	COMPUTER GRAPHICS	1	3	0	4	4
	ARTIFICIAL INTELLIGENCE	1	3	0	4	4
	IPR AND CYBER LAWS	1	3	0	4	4
S	ADVANCED DBMS LAB	1	0	3	4	1
T	NETWORKING AND SYSTEM ADMINISTRATION LAB	1	0	3	4	1
W	INDUSTRIAL READINESS TRAINING	0	0	1	1	0

Semester 9

INT MCA SEMESTER IX	
Course No	Course
20INMCA501	Data Science & Machine Learning
20INMCA503	Mobile Computing
20INMCA5--	Elective 3
20INMCA5--	Elective 4
20INMCA509	Mini Project 2
20INMCA531	Data Science Lab
20INMCA533	Mobile Application Development Lab
20INMCANC3	Domain Expertise Workshops

Semester 10

INT MCA SEMESTER X	
Course No	Course
20INMCA502	Comprehensive Viva
20INMCA504	Seminar
20INMCA506	Main Project