



Kodaikanal Christian College

(Autonomous)

Affiliated to Madurai Kamaraj University Approved by UGC under 12(b), 2(f) Status

Master of Computer Application Proposed Subjects and Teaching Scheme Academic Year 2015 - 2016

Semester – I

Subject Code	Subject Name	Teaching Scheme(hours)			Credits
		Theory	Tutorial	Practical	
15MCA101	Fundamentals of Programming (FOP)	4	--	--	4
15MCA102	Enterprise Resource Planning (ERP)	4	--	--	4
15MCA103	Discrete Mathematics for Computer Science (DMCS)	4	1	--	5
15MCA104	Fundamentals of Computer Organization (FCO)	4	1	--	5
15MCA105	Communications Skills (CS)	2	2	--	4
15MCA106	Programming Skills-I (PS-I-FOP)	--	--	4	4
15MCA107	Software Project in C (SP-C)	--	--	4	4
	TOTAL	16	6	8	30

Semester - II

Subject Code	Subject Name	Teaching Scheme(hours)			Credits
		Theory	Tutorial	Practical	
15MCA201	Data Structures (DS)	4	1	--	5
15MCA202	Object-Oriented Programming Concepts & Programming (OOCPP)	4	--	--	4
15MCA203	Database Management System (DBMS)	4	--	--	4
15MCA204	Computer-Oriented Numerical Methods (CONM)	4	1	--	5
15MCA205	Programming Skills-II (PS-OOCPP)	--	--	4	4
15MCA206	Software Lab (DBMS: SQL & PL/SQL)	--	--	4	4
15MCA207	Software Project in C++ (SP-CPP)	--	--	4	4
	TOTAL	16	2	12	30



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Semester-III

Subject Code	Subject Name	Teaching Scheme(hours)			Credits
		Theory	Tutorial	Practical	
15MCA301	Structured & Object Oriented Analysis & Design Methodology (SOOADM)	4	2	0	6
15MCA302	Fundamentals of Java Programming (Java)	4	0	0	4
15MCA303	Statistical Methods (SM)	4	0	0	4
15MCA304	Operating Systems (OS)	4	0	0	4
15MCA305	System Software (SS)	4	0	0	4
15MCA306	Programming Skills-IV (Java)	0	0	4	4
15MCA307	Programming Skills-V (OS)	0	0	4	4
	TOTAL	20	2	8	30

Semester - IV

Subject Code	Subject Name	Teaching Scheme(hours)			Credits
		Theory	Tutorial	Practical	
15MCA401	Fundamentals of Networking (FON)	4	0	0	4
15MCA402	Web Technology & Application Development (WTAD)	4	0	0	4
15MCA403	Operations Research (OR)	4	1	0	5
15MCA404	Management Information System (MIS)	4	0	0	4
	Elective-I*	4	1	0	5
15MCA411	Programming Skills VI (FON)	0	0	4	4
15MCA412	Programming Skills VII (WTAD)	0	0	4	4
	TOTAL	20	2	8	30

List of Elective-I*

Sr. No.	Elective-I
15MCA405	Data Warehousing & Data Mining (DWDM)
15MCA406	Distributed Computing (DC 1)
15MCA407	Data Compression (DC2)
15MCA408	Computer Graphics (CG)
15MCA409	Soft Computing (SC)
15MCA410	Analysis & Design of Algorithm (ADA)



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Semester V

Subject Code	Subject Name	Teaching Scheme(hours)			Credits
		Theory	Tutorial	Practical	
15MCA501	Software Engineering (SE)	4	1	0	5
15MCA502	Network Security (NS)	4	1	0	5
15MCA503	Mobile Computing (MC)	4	0	0	4
	Elective-II*	4	1	0	5
	Elective-III**	4	1	0	5
15MCA515	Software Lab in Mobile Computing (SL-	0	0	4	4
15MCA516	Dissertation (DSRT) & Project Defination	0	0	2	2
	TOTAL	20	4	6	30

List of Elective-II*

Subject Code	Subject
15MCA504	Advanced Data Base Management Systems (ADBMS) (Elective-II)
15MCA505	Parallel Programming (PP)
15MCA506	Web Searching Technologies & Search Engine Optimization (WST-SEO)
15MCA507	Wireless Sensor Network(WSN)
15MCA508	Cyber Security and Forensics (CSF) (Elective-II)

List of Elective-III**

Subject Code	Subject
15MCA509	Advanced Networking (AN)
15MCA510	Image Processing (IP)
15MCA511	Software Development for Embedded Systems (SD-ES)
15MCA512	Geographical Information System (GIS)
15MCA513	Language Processing (LP)
15MCA514	Bioinformatics (Bio-I)

Semester VI

Subject Code	Subject	Teaching scheme(hours)			Credits
		Theory	Tutorial	Practical	
15MCA601	Project	0	0	30	30