



SACRED HEART COLLEGE (AUTONOMOUS)

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Ready for
Every Good Work

A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

MASTER OF COMPUTER SCIENCE

Regulations and Syllabus

Sem	Code	Subject	L	T	P	C	CA	Sem	Total
I		Principles of Compiler Design	4	0	0	3	40	60	100
		Advanced Java Programming	4	1	0	3	40	60	100
		Desktop Applications	4	1	0	3	40	60	100
		Open Source Technologies	3	1	0	3	40	60	100
		Elective-I: a. Web Services b. Data Mining and Warehousing c. Decision Support System	4	0	0	3	40	60	100
		Practical – I: Advanced Java Programming	0	0	2	2	40	60	100
		Practical –II : Desktop Applications	0	0	2	2	40	60	100
		Practical – III:Open Source Technologies	0	0	2	2	40	60	100
		Employability Skills	2	0	0	0	100	-	100
	IDCC – I (30 Hrs)/ MOOCs	-	-	-	2[#]	-	-	-	
	Total	21	3	6	21+2[#]	-	-	30	
II		Distributed Operating System	4	0	0	3	40	60	100
		Enterprise Java Programming	4	1	0	3	40	60	100
		Web Applications	4	1	0	3	40	60	100
		Programming in Python	3	1	0	3	40	60	100
		Elective-II: a. Object Oriented Analysis and Design b. Software Testing and Quality Assurance c. Software Project Management	4	0	0	3	40	60	100
		Practical - IV: Enterprise Java Programming	0	0	2	2	40	60	100
		Practical - V: Web Applications	0	0	2	2	40	60	100
		Practical -VI: Programming in Python	0	0	2	2	40	60	100
		Technical Aptitude	2	0	0	-	100	-	100
		Skill Empowerment – I	0	0	0	1	100	-	100
	Department Domain – I (30 Hrs) / MOOCs	-	-	-	2*	-	-	-	
	Total	21	3	6	22+2*	-	-	30	
III		Internet Of Things	4	0	0	3	40	60	100
		Cloud Computing	4	0	0	3	40	60	100
		Design and Analysis of Algorithms	4	1	0	3	40	60	100
		Mobile Applications	4	1	0	3	40	60	100
		Elective - III: a. Semantic Web b. Security Systems c. Artificial Intelligence	4	0	0	3	40	60	100
		Practical-VII: Design and Analysis of Algorithms	0	0	2	2	40	60	100

	Practical – VIII: Mobile Applications	0	0	2	2	40	60	100
	Software Project – I	0	0	2	2	40	60	100
	Career Building Skills	2	0	0	-	100	-	100
	Industrial Plant Training	0	0	0	2	100	-	100
	Skill Empowerment – II	0	0	0	1	100	-	100
	Department Domain – II (30 Hrs)/ MOOCs (30 Hrs)	-	-	-	2*	-	-	-
	Total	22	2	6	24+2*	-	-	30
IV	Big Data Analytics	4	-	0	3	40	60	100
	Data Science with Python	4	1		3	40	60	100
	Cryptography and Network Security	4	1	0	3	40	60	100
	Elective-IV: a. Machine Learning b. BlockChain Technology c. Cognitive Computing	4	0	0	3	40	60	100
	Research Investigation	2	0	0	1	100	-	100
	Practical - IX: Data Science with Python	0	0	2	2	40	60	100
	Practical - X: Cryptography and Network Security	0	0	2	2	40	60	100
	Software Project – II	0	0	4	3	40	60	100
	Human Rights	2	0	0	2	40	60	100
	Skill Empowerment – III	0	0	0	1	100	-	100
	IDCC – II/ MOOCs (30 Hrs)	-	-	-	2 [#]	-	-	-
	Total	20	2	8	23+2[#]	-	-	30
	Grand Total	84	10	26	90+4[#]+4*	-	-	120