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

M.Sc. Computer Science

Sem	Code	Subject	L	T	P	C	CA	Sem	Total
I		Mathematical Foundation for Computer Science **(IDC)**	5	0	0	3	40	60	100
		Advanced Java Programming	4	1	0	3	40	60	100
		Python Programming	3	1	0	3	40	60	100
		Open Source Technologies	3	1	0	3	40	60	100
		Elective-I: a. Web Services b. Database Administration 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: Python Programming	0	0	2	2	40	60	100
		Practical – III: Open Source Technologies	0	0	2	2	40	60	100
		Business Communication	2	0	0	0	100	-	100
		IDCC – I	30Hrs	**0**	**0**	**2#**	**100**	-	**100**
		Total	**21**	**3**	**6**	**21+2#**	-	-	**30**
II		Principles of Compiler Design	5	0	0	3	40	60	100
		Enterprise Java Programming	4	1	0	3	40	60	100
		Desktop Application Using C#.NET	3	1	0	3	40	60	100
		Cryptography and Network Security	3	1	0	3	40	60	100
		Elective-II: a. Object Oriented Analysis and Design b. Data Communication and Networks 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: Desktop Application Using C#.NET	0	0	2	2	40	60	100
		Practical – VI : Cryptography and Network Security	0	0	2	2	40	60	100

		Course	L	T	P	C	CIA	ESE	Total
		Quantitative Aptitude	2	0	0	-	100	-	100
		Technology Trends – I	0	0	0	1	100	-	100
		Department Domain – I	**20Hrs**	**10Hrs**	**0**	**2***	**100**	**-**	**100**
		Department Domain – II	**20Hrs**	**10Hrs**	**0**	**2***	**100**	**-**	**100**
		Total	**21**	**3**	**6**	**22+4***	**-**	**-**	**30**
III		Internet Of Things	4	0	0	3	40	60	100
		Distributed Operating System	4	0	0	3	40	60	100
		Web Application Using ASP.NET	4	1	0	3	40	60	100
		Mobile Applications	4	1	0	3	40	60	100
		Elective - III: a. Cloud Computing b. Semantic Web c. Data Science	4	0	0	3	40	60	100
		Practical-VII: Web Application Using ASP.NET	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
		Soft Skills	2	0	0	-	100	-	100
		Industrial Plant Training	0	0	0	2	100		100
		Technology Trends – II	0	0	0	1	100	-	100
		Department Domain – III	**20Hrs**	**10Hrs**	**0**	**2***	**100**	**-**	**100**
		Department Domain – IV	**20Hrs**	**10Hrs**	**0**	**2***	**100**	**-**	**100**
		Total	**22**	**2**	**6**	**24+4***	**-**	**-**	**30**
IV		Design and Analysis of Algorithms	4	1	0	3	40	60	100
		Software Testing and Quality Assurance	4	1	0	3	40	60	100
		Elective-IV: a. Big Data Analytics b. Machine Learning c. Security Systems	4	0	0	3	40	60	100
		Research Paper	2	0	0	2	100	-	100
		Practical - IX: Design and Analysis of Algorithms	0	0	4	2	40	60	100
		Practical - X: Software Testing	0	0	2	2	40	60	100
		Software Project – II	0	0	6	5	40	60	100
		Human Rights	2	0	0	2	40	60	100
		Technology Trends – III	0	0	0	1	100	-	100
		IDCC – II	**30Hrs**	**0**	**0**	**2#**	**100**	**-**	**100**
		Total	**16**	**2**	**12**	**23+2#**	**-**	**-**	**30**
		Grand Total	**80**	**10**	**30**	**90+4#+8***	**-**	**-**	**120**