

SACRED HEART COLLEGE (AUTONOMOUS)

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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

Name of the Course	Course Code	Name of the Program	Activities with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction
Principles of Compiler Design		M Sc Computer Science	Skill Development: Content: The Phases, Compiler construction tools, Grammars, Writing a grammar	2021-22
Advanced Java Programming		M Sc Computer Science	Skill Development Contents: AWT, Swing, JDBC, Network in java, Collections, JSP & Servlet, Clientside programming Activities: Hands on programming using AWT ans swing with JDBC, Quiz on collections, Application Development using AWT or swing with JDBC, web application development using JSP and Servlet	2021-22

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a. Web Services	M Sc Computer Science	Skill Development Contents: XML technology, SOAP, WSDL, UDDI, XML in E-Business and CMS Activities: Assignments, Quiz, Seminar	2021-22
b. Data Mining and Warehousing	M Sc Computer Science	Skill Development Content: Classification and Prediction, Cluster Analysis, Applications and Trends in Data Mining, Skill Development: Introduction, Data Preprocessing Activities: Class performance, Assignment, Demonstration, Applications to real life situation,Experiential Learning	2021-22
c. Business Intelligence	M Sc Computer Science	Skill Development Contents: Complex business problem, adaptive business intelligence and prediction methods, modern optimization techniques, Computational intelligence Activities: Assignments, Quiz, Seminar	2021-22

Practical – I:	M Sc	Skill Development	2021-22
Advanced Java	Computer	Contents : AWT,	-
Programming	Science	Swing, JDBC,	
		Network in java,	
		Collections, JSP &	
		Servlet, Clientside	
		programming	
		Activities : Practical	
		programs on all	
		topics, Windows and	
		web Application	
		Development using	
		AWT, Swing, JDBC,	
		JSP and Servlet	
Distributed	M Sc	Skill Development	2021-22
Operating	Computer	Content: Model,	
System	Science	Issues, Message	
		passing, Remote	
		procedure call,	
		Deadlock, Proces.	
		Activities: Written	
		assignment and case study in different	
		operating systems	
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Enterprise Java	M Sc	Skill Development Contents : MVC	2021-22
Programming	Computer Science	Frameworks - JSF,	
	Science	Struts, EJB,	
		Hibernate, Spring	
		Frameworks	
		Activities : Quiz on	
		MVC, Web	
		Application	
		Development using	
		JSF and Struts,	
		Hands on	
		programming using	
		EJB and Hibernate,	
		Seminar on Spring	
a. Object	M Sc	Skill Development	2021-22
Oriented	Computer	Content: User	
Analysis and	Science	Interface Design,	
Design		Introducing the	

		UML Diagrams,	
b. Software Testing and Quality Assurance	M Sc Computer Science	basics, Test case design, Level of Testing, software quality and quality control Activities: Assignments, Quiz, Testing tool demonstration and Supplementary learning	2021-22
c. Wireless Sensor Networks	M Sc Computer Science	Skill Development Contents: Wireless sensor network architecture, Data Link layer, Network layer, Transport layer, Tools for WSN. Activities: Assignments, Quiz, Network Tool demonstration and Supplementary learning	2021-22
Practical - IV: Enterprise Java Programming	M Sc Computer Science	Skill Development Contents: MVC, Frameworks - JSF, Struts, EJB, Hibernate, Spring Frameworks Activities: Demonstrating programs, Practical excercises, Application Development	2021-22

Technical	M Sc	Skill Davidonment	2021-22
Aptitude	Computer Science	Skill Development: Content: Computer Science field subjects and its familiar topics overview. Activities: Seminars, quiz, tools demonstration,	2021-22
Internet Of Things	M Sc Computer Science	Skill development : Content: IoT and M2M, IoT Sensors, IoT Design Methodology, IoT Systems Connection and Working Process. Skill Development: Introduction To Internet Of Things, Domain Specific IoTs. Activity: Brain Storming, Assignment, Demonstration, Quiz, programming skills, Seminars and Discussions, Experiential Learning	2021-22
Artificial Intelligence	M Sc Computer Science	Skill Development: Content: AI Problems and Characteristics, Search Techniques, Game playing, Fuzzy logic, Problem solving Activities: Seminars, Group Discussions, Analyse AI	2021-22

algorithms / Employability	
7	
Design and M Sc Skill Development 2021-2	22
Analysis of Computer Contents : Pseudo	
Algorithms Science Code design, Divide	
and conquer method,	
Dynamic Dynamic	
progreamming,	
backtracking, branch	
and bound methods	
Activities:	
Demonstration of	
algorithms, Problem	
solving	
Assignments, Quiz,	
Seminar,	
Supplementary	
learning	
a. Semantic M Sc Skill Development: 2021-2	22
Web and Computer Content: Semantic	
Applications Science Web vision,	
Describing web	
resources, Web	
ontology	
language(OWL),	
Logic and inference	
rule; Activities:	
Seminars, Group	
Discussions, Quiz	
Discussions, Quiz	
b. Ethical M Sc Skill Development: 2021-2	22
Hacking & Computer Content: Types of	
Cyber Science Computer Forensics,	
Forensics Data Recovery,	
Electronic Evidence,	
Threats.	
Activities: Seminars,	
Group Discussions,	
Quiz	

c. Cloud	M Sc	Skill Development:	2021-22
Computing	Computer Science	Content: Cloud computing services and application design, development, multimedia cloud, Cloud security and apllications. Activities: Use online cloud computing tools, Seminars, Assignments	
Practical-VII: Design and Analysis of Algorithms	M Sc Computer Science	Skill Development Contents: Pseudo Code design, Divide and conquer method, Dynamic progreamming, backtracking, branch and bound methods Activities: Writing observation & Execution of algorithms for all the methods through programming	2021-22
Software Project – I	M Sc Computer Science	Skill Development Activities: Real time application development	2021-22
Career Building Skills	M Sc Computer Science	Skill Development Contents: Attitude & altitude, Time is money, Team building, leadership, Interpersonal skill, Presentation skill, Business correspondance, Interview, Group Dynamics Activities: Seminar,	2021-22

		classroom Activities, Assignments	
Big Data Analytics	M Sc Computer Science	Skill Development Content: Classification of Digital Data, VVV, Evolution of Big Data, Challenges with Big Data, Classification of Analytics, Introducing Hadoop, Activities: Group Discussion on VVV, Assignment - Classification of Digital Data	2021-22
Data Science with Python	M Sc Computer Science	Skill Development Contents: Data Analysis and its packages using python, numpy, pandas, matplotlib. Activities: Demonstration of data analysis using numpy and pandas, Assignments on matplotlib, Quiz, Seminar	2021-22
a. Cryptography and Network Security	M Sc Computer Science	Skill Development Content: Employability: Network Security, System Level Security Skill Development Introduction, Public Key Cryptography, Authentication And	2021-22

		Hash Function Activity: Brain- Storming, Discussion on cyber security and IT Act and its impact in real life, Case studies	
b. Social Network Analysis	M Sc Computer Science	Skill Development Contents: Clustering and classification, Social media mining, Extraction & Mining in web social networks Activities: Seminar, quiz, assignments, case stuides	2021-22
c. Soft Computing	M Sc Computer Science	Skill Development Contents: Artificial Neural Networks, Fuzzy Systems, Genetic algorithms, Hybrid Systems. Activities: Seminar, quiz, assignments, case stuides	2021-22
Practical - IX: Data Science with Python	M Sc Computer Science	Skill Development Contents: Data Analysis and its packages using python, numpy, pandas, matplotlib. Activities: Execution of data analysis using numpy and pandas through Practicals, data visualization using matplotlib	2021-22
Research Investigation	M Sc Computer Science	Skill Development Activities : Reading Journals and Books,	2021-22

		writing Research	
		paper.	
Software	M Sc	Skill Development	2021-22
Project – II	Computer	Activities: Project	
	Science	implementation and	
		documentation, viva-	
		voce	