



*Ready for  
Every Good Work*

# **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 (4<sup>th</sup> Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

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**Name of the Programme: MCA**

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	<b>OPTIMIZATION TECHNIQUES</b>	MCA162T	<ul style="list-style-type: none"> <li>To obtain knowledge on linear programming problems, transportation problems, assignment problems, inventory models, queuing models, project management and Game theory problems.</li> </ul>	<ul style="list-style-type: none"> <li>Generalize and Formulate linear programming problems.</li> <li>Choose, Draft and Formulate transportation problems.</li> <li>Classify and Design assignment problems.</li> <li>Devise , Build and Design inventory models.</li> <li>Elicit and Design queuing models</li> <li>Define, Build and Formulate project management and Game theory problems.</li> </ul>	<b>national developmental needs</b>
2	<b>PYTHON PROGRAMMING</b>	MCA360T	<ul style="list-style-type: none"> <li>To understand the fundamentals of writing Python scripts, Python scripting elements.</li> <li>To create a dynamic web page using Python.</li> </ul>	<ul style="list-style-type: none"> <li>Observe and practice the fundamentals of writing Python scripts and Python scripting elements.</li> <li>Express and Apply the concepts of file handling, exception handling and database connectivity.</li> <li>Apply and build the different dimensions of design and development.</li> <li>Devise and Design GUI applications.</li> <li>Draft and Create a dynamic web page using DJANGO.</li> <li>Devise and Develop domain based applications</li> </ul>	<b>national developmental needs</b>

3	<b>ELECTIVE II: CLOUD COMPUTING</b>	MCA363A	<ul style="list-style-type: none"> <li>• To understand the concept of cloud computing.</li> <li>• To appreciate the evolution of cloud from the existing technologies.</li> <li>• To have knowledge on the various issues in cloud computing.</li> <li>• To be familiar with the lead players in cloud.</li> <li>• To appreciate the emergence of cloud as the next generation computing paradigm</li> </ul>	<ul style="list-style-type: none"> <li>• Observe and Discuss the fundamental ideas behind Cloud Computing.</li> <li>• List and Explain about cloud computing and the services that are available.</li> <li>• Observe and Correlate the major three services IaaS, SaaS and PaaS.</li> <li>• Observe the various storage services (like amazon S3) and able to practice them.</li> <li>• Understand the benefits Cost Effectiveness of Cloud computing and Analyze the Cost Effectiveness.</li> <li>• Analyze and Evaluate the performance of Cloud Computing</li> </ul>	<b>national developmental needs</b>
4	<b>ELECTIVE II: SOCIAL NETWORK ANALYSIS</b>	MCA363B	<ul style="list-style-type: none"> <li>• To learn knowledge representation using ontology.</li> <li>• To understand the sources for network analysis.</li> <li>• To understand the concept of semantic web and related applications.</li> <li>• To understand knowledge representation on semantic web.</li> <li>• To model and aggregate social networking of data.</li> </ul>	<ul style="list-style-type: none"> <li>• At the end of the course, the students will be able to</li> <li>• Adopt to the concepts of semantic web.</li> <li>• Perform social network analysis</li> <li>• Represent knowledge in semantic web.</li> <li>• Model social network data</li> <li>• Aggregate and analyze social network data</li> </ul>	<b>National developmental needs</b>

5	<b>ELECTIVE III: ENTERPRISE RESOURCE PLANNING</b>	MCA364A	<ul style="list-style-type: none"> <li>• To provide a basic understanding and knowledge of the Enterprise Computing techniques used in industries.</li> <li>• To understand basic concepts, tools and Techniques of Enterprise Resource Planning.</li> <li>• To analyze and propose IT solutions for the integration of business process throughout the enterprise.</li> <li>• To aim for careers in various ERP consultancies, ERP-support services and Software Developers.</li> <li>• To understand the business model and ERP Implementation.</li> </ul>	<ul style="list-style-type: none"> <li>• Observe and Comprehend the knowledge of business benefits of implementing the enterprise computing techniques in the industries.</li> <li>• Examine and Assess the ERP package's technology and how they help to streamline the company process.</li> <li>• Analyse , Evaluate and integrate ERP into various business modules.</li> <li>• Evaluate and comprehend the ERP system's pre and post implementation phases.</li>   <li>• Draft and Design ERP with future e-commerce / internet and compare the benefits of re-engineered business process through a case study.</li> <li>• Recognize and Observe the importance of ERP package through case studies</li> </ul>	<b>national developmental needs</b>
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6	<b>ELECTIVE V: DATA MINING TECHNIQUES</b>	MCA467A	<ul style="list-style-type: none"> <li>• To Learn the fundamentals of Data Mining.</li> <li>• To Learn the concepts of clustering and classification.</li> <li>• To understand the trends in Data mining.</li> <li>• To analyze data, choose relevant models and algorithms for respective applications.</li> <li>• To develop research interest towards advances in data mining.</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the fundamentals of Data Warehouse and Data Mining</li> <li>• Observe and Discuss the concepts of preprocessing, association mining, clustering, classification and Regression</li> <li>• Recognize and Explore various tools and its uses for data analysis</li> <li>• Apply and analyze the clustering and classification techniques for a specific problem.</li> <li>• Recognize and Solve real-world problems in business and scientific information using data mining.</li> <li>• Recognize, Device and Build statistical predictive models using various techniques such as neural networks, decision trees and logistic regression.</li> </ul>	<b>national developmental needs</b>
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