

K.S.Rangasamy College of Arts & Science, (Autonomous), Tiruchengode-637 215

Department of Computer Science - PG

Local / National / Regional / Global

SEMESTER I

Course Code	Course Name	Need				Remarks
		Local	National	Regional	Global	
18PCSM101	Core I: Advanced Java Programming	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>imparting knowledge on advanced concepts in J2EE with database</li> <li>learn Client/Server programming and Distributed application</li> <li>learn about overview of J2EE Architecture, concepts of JDBC and servlet</li> </ul>
18PCSM102	Core II: Design and Analysis of Algorithms		✓	✓	✓	<ul style="list-style-type: none"> <li>develop in the classic algorithms in various domains and techniques for designing efficient algorithms</li> <li>creating analytical skills which enable the students to design algorithms for various real time problems</li> <li>making clear understanding in categorization of various types of Algorithms</li> </ul>
18PCSM103	Core III: Advanced Operating System				✓	<ul style="list-style-type: none"> <li>understanding of the advanced concepts and techniques of an operating system</li> <li>learn the essential concepts of Deadlocks and Synchronization in various Operating System environment and gain Knowledge of Distributed Operating System</li> </ul>
18PCSM104	Core IV: Network Security and Cryptography		✓	✓	✓	<ul style="list-style-type: none"> <li>imparting basic categories of threats to computers and networks</li> <li>studying about the Intrusions and intrusion detection systems</li> <li>Acquiring knowledge of fundamental ideas of public-key cryptography techniques</li> </ul>
18PCSM101	Core Practical I: Advanced Java	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Understanding the concept of strong in Servlet API programming skills to enhance the real time programming skills in Session management and</li> </ul>

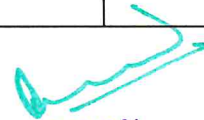
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	Programming					other APIs
18PCSM102	Core Practical II: PHP and MYSQL lab	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>developing the skills of Form Designing and Exception handling in PHP</li> <li>knowing about record creation and manipulation in MYSQL</li> </ul>

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Semester - II

Course Code	Course Name	Need				Remarks
		Local	National	Regional	Global	
18PCSM201	Core V: C# and ASP .Net Framework	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Detailed of skilled at Fundamental and Advanced concept of .NET Frame work</li> <li>imparting Knowledge in C# programming skills in .NET and gain Knowledge of Web Application Architecture</li> </ul>
18PCSM202	Core VI: Data Mining and Warehousing			✓	✓	<ul style="list-style-type: none"> <li>gaining Knowledge in Data Warehousing and implementation</li> <li>studying the Data Mining techniques utilized in various types of Algorithms</li> <li>gathering knowledge on classification, clustering and association rules</li> </ul>
18PCSEL203	Elective I: Software Project Management	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>elaborately how a project can be broken down into stages and its contribution to the project</li> <li>selecting appropriate techniques for various stages of a project and apply them in practical situations</li> </ul>
18PCSMP201	Core Practical III: C# and ASP.Net Framework	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>good clarity in IDE for Form Designing and DB Connectivity on C# and ASP framework</li> <li>strong on understanding session management in .NET frame work</li> </ul>
18PCSMP202	Core Practical IV : Data Mining			✓	✓	<ul style="list-style-type: none"> <li>attaining the knowledge in Data Warehousing and implementation</li> <li>Data Mining techniques utilized in various types of Algorithms</li> <li>gather knowledge on classification, clustering and association rules</li> </ul>

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Semester - III

Course Code	Course Name	Need				Remarks
		Local	National	Regional	Global	
18PCSM301	Core VII: Big Data Analytics			✓	✓	<ul style="list-style-type: none"> <li>Familiarizing with the basics of Big data technology and Hadoop environment.</li> <li>Implementation of Big data analytics in today's real-world business.</li> </ul>
18PCSM302	Core VIII: Internet of Things	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Building simple IoT Systems using Arduino and Raspberry Pi.</li> <li>Understanding data analytics and develop IoT infrastructure for effective applications.</li> </ul>
18PCSEL302	Soft Computing			✓	✓	<ul style="list-style-type: none"> <li>The ideas of fuzzy sets, fuzzy logic and use of heuristics based on human experience.</li> <li>Providing the mathematical background for carrying out the optimization associated with neural network learning.</li> </ul>
18PCSMP301	Core Practical V: Mobile Application Development	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Developing the ability of designing and validating activity for a mobile application.</li> <li>To develop the applications with multimedia techniques and database connectivity.</li> </ul>
18PCSMP302	Core Practical VI: Network and IoT Lab	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Exploring the networking concepts using CISCO PACKET TRACER simulator.</li> <li>Exemplify IoT concepts using ARDUINO and RASPBERRY PI.</li> </ul>

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Semester - IV

Course Code	Course Name	Need				Remarks
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18PCSM401	Core IX: Python Programming	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Acquiring core concepts of Python.</li> <li>Knowledge on OOPs and System Programming broadly.</li> <li>Explore the awareness about socket programming and web surfing.</li> </ul>
18PCSM402	Core X: Professional Ethics and Cyber Law	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Evaluate the innate and inseparable relationship between 'values' and 'skills'</li> <li>Facilitating the development of a holistic perspective in their minds towards life profession and personal happiness</li> </ul>
18PCSM401	Core Practical VII: Python Programming Lab	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>To implement OOPs concept in Python. To create WebPages and explore database connectivity in Python.</li> </ul>

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