

J.J. College of Arts & Science (Autonomous), Pudukkottai

Department of Computer Science

Course Outcomes

M.Sc. Computer Science – PSCS

Course Name - OOAD and UML		Course Code - P1R1CSCC2
Upon Completion of the course students would be able to		
CO 1	Use the UML analysis and design diagrams.	
CO 2	Design and implement projects using OO concepts.	
CO 3	Apply appropriate design patterns.	
CO 4	Create code from design.	
CO 5	Compare and contrast various testing techniques.	
Course Name - Web Design		Course Code - P1R1CSCC3
Upon Completion of the course students would be able to		
CO 1	Understand about the web based technologies and their applications.	
CO 2	Understand to use open source tools.	
CO 3	Write scripts using PHP.	
CO 4	Create their own portal in web programming.	
CO 5	Gain knowledge about web editors	
Course Name – Web Design Practical		Course Code – P1R1CSCC4P
Upon Completion of the course students would be able to		
CO 1	Designing web pages of their own with markup languages	
CO 2	Creating embedded scripts	
CO 3	Styling their web pages with CSS	
CO 4	Creating scripts with PHP	
CO 5	Connecting scripts with databases	

Course Name - Distributed Operating System		Course Code – P2R1CSCC5
Upon Completion of the course students would be able to		
CO 1	Understand the different Distributed Systems and the challenges involved in Design of the Distributed Systems.	
CO 2	Aware about how computing power is created and synchronized in Distributed systems	
CO 3	Design and Implement Distributed applications using Technologies like RPC, threads.	
CO 4	Learn how to store data in Distributed File System.	
CO 5	Understand How Distributed Shared Memory is managed.	
Course Name - Compiler Design		Course Code – P2R1CSCC6
Upon Completion of the course students would be able to		
CO 1	Know the various phases of compiler and its use.	
CO 2	Acquire knowledge about the compilation of coding.	
CO 3	Understand the steps in Intermediate code generation.	
CO 4	Understand the various code optimization techniques, machine code generation, and use of symbol table.	
CO 5	Acquire knowledge of parser by parsing LL parser and LR parser.	
Course Name – Advanced Java Programming		Course Code – P2R1CSCC7
Upon Completion of the course students would be able to		
CO 1	Acquire understanding about JDBC and its classes.	
CO 2	Understand the basics of Java JDK tools.	
CO 3	Write programs in Swing, JDBC, Beans and servlet concepts.	
CO 4	Work on servlets.	
CO 5	Develop Java client/server applications.	

Course Name - Advanced Java Programming Practical		Course Code – P2R1CSCC8P
Upon Completion of the course students would be able to		
CO 1	To work on applets.	
CO 2	To make swing controls.	
CO 3	To create Cookie and its life cycle.	
CO 4	To create Servlets and work on it.	
CO 5	To create Java bean	
Course Name - Design and Analysis of Algorithms		Course Code – P2R1CSCC9
Upon Completion of the course students would be able to		
CO 1	Understand the fundamental of algorithms	
CO 2	Analyze the performance of algorithms	
CO 3	Understand the basics of various techniques	
CO 4	Choose appropriate algorithm design techniques for solving problems	
CO 5	Analyze the complexities of various problems in different domains	
Course Name – Digital Image Processing		Course Code – P3R1CSCC10
Upon Completion of the course students would be able to		
CO 1	Have an understanding on Image processing	
CO 2	Evaluate the techniques for image enhancement	
CO 3	Understand image restoration.	
CO 4	Categorize various compression techniques.	
CO 5	Interpret image segmentation and representation techniques.	

Course Name - Distributed Technology		Course Code – P3R1CSCC11
Upon Completion of the course students would be able to		
CO 1	Get a clear understanding about .net framework.	
CO 2	Gain knowledge about all the controls used in.net.	
CO 3	Understand the validation controls of .net	
CO 4	Acquire knowledge about the security features of .net framework.	
CO 5	Know the data base support of .net.	
Course Name - Distributed Technology Practical		Course Code – P3R1CSCC12P
Upon Completion of the course students would be able to		
CO 1	The web server controls of .net.	
CO 2	Designing static web pages using dot net.	
CO 3	Database connectivity in .net.	
CO 4	The disconnected data access of .net.	
CO 5	The various data controls of .net.	
Course Name - Data Mining and Data Warehousing		Course Code – P3R1CSCC13
Upon Completion of the course students would be able to		
CO 1	Describe and demonstrate basic data mining algorithms, methods, and tools.	
CO 2	Demonstrate an understanding of the importance of data mining and the principles of business intelligence.	
CO 3	Organize and prepare the data needed for data mining techniques.	
CO 4	Perform exploratory analysis of the data to be used for mining.	
CO 5	Define and apply metrics to measure the performance of various data mining algorithms and evaluate different models used for OLAP and data pre-processing.	

Course Name - Cloud Computing		Course Code - P3R1CSCC14
Upon Completion of the course students would be able to		
CO 1	Define cloud computing and memorize the different cloud service and deployment models.	
CO 2	Apply and design suitable Virtualization concept, Cloud Resource Management and design scheduling algorithms.	
CO 3	Use and examine different cloud computing services.	
CO 4	Design different workflows according to requirements and apply Map-Reduce programming model.	
CO 5	Analyze the components of open stack & Google cloud platform	
CO 6	Understand mobile cloud computing and migrating strategies for cloud applications	
Course Name - Mobile Communication		Course Code - EC1
Upon Completion of the course students would be able to		
CO 1	Analyse the basic principles of mobile communication systems.	
CO 2	Understand the basic principles of modern mobile and wireless communication system.	
CO 3	Test mobile communication equipment for the technical functionality.	
CO 4	Describe the development and implementation of mobile communication systems.	
CO 5	Explain the basic physical and technical setting functioning of mobile communication systems.	
Course Name - Big Data Analytics		Course Code - EC2
Upon Completion of the course students would be able to		
CO 1	Analyze the big data using intelligent techniques.	
CO 2	Understand the various search methods visualization techniques.	
CO 3	Use various techniques for mining data stream.	
CO 4	To implement MapReduce	
CO 5	To implement data warehousing management	

Course Name - Network Security		Course Code - EC3
Upon Completion of the course students would be able to		
CO 1	Incorporate approaches to secure networks.	
CO 2	Understand principles of web security.	
CO 3	Identify and describe the common types of security threats aimed at computer networks and explain the typical techniques.	
CO 4	Understand classification of encryption	
CO 5	Incorporate public key cryptography	
Course Name - Software Quality Assurance And Testing		Course Code - EC4
Upon Completion of the course students would be able to		
CO 1	Understand the fundamental concepts and theory of Software testing and Software Quality Management	
CO 2	Implement process that ensures the Software is developed with good quality standards	
CO 3	Quality management methods to effectively organize staff and lead a successful development of the Software product.	
CO 4	Analyse the quality management methods	
CO 5	Perform successful development of software product.	
Course Name - ArtificialIntelligence And Expert System		Course Code - EC5
Upon Completion of the course students would be able to		
CO 1	Understand AI and its applications	
CO 2	Understand about symbolic reasoning	
CO 3	Incorporate heuristic search techniques	
CO 4	Apply AI in various Search techniques	
CO 5	Use AI in real time applications	

Course Name - Pervasive Computing		Course Code - EC6
Upon Completion of the course students would be able to		
CO 1	Understand the application scenarios of Pervasive Computing	
CO 2	Design pervasive computing system and sub systems	
CO 3	Use and evaluate appropriate tools and techniques	
CO 4	Understand about Device connectivity	
CO 5	Understand about WAP and PDA	
Course Name - Human Computer Interaction		Course Code - EC7
Upon Completion of the course students would be able to		
CO 1	Understand what interaction design is and how it relates to human computer interaction and other fields.	
CO 2	Explain the importance of iteration, evaluation and prototyping in interaction design	
CO 3	Know about the conceptual, practical, and ethical issues involved in evaluation.	
CO 4	Understand the principles of a user-centered approach.	
CO 5	Understand the various approach of user support system.	
Course Name - Internet of Things		Course Code - EC8
Upon Completion of the course students would be able to		
CO 1	Implement state of the Art architecture in IoT.	
CO 2	Determine the market perspective of IoT.	
CO 3	Gain knowledge about the use of Devices, Gateways and Data management in IoT.	
CO 4	Interpret the vision of IoT from a global context.	
CO 5	Knowledge of programming in Python.	