



**Unique Course Number: CSC801**

**Course Name: Distributed Computing**

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSC8011	Demonstrate knowledge of the basic elements and concepts related to distributed system Technologies.
CSC8012	Illustrate the middleware technologies that support distributed applications such as RPC, RMI and Object based middleware.
CSC8013	Analyze the various techniques used for clock synchronization and mutual exclusion.
CSC8014	Demonstrate the concepts of Resource and Process management.
CSC8015	Demonstrate the concepts of Consistency and Replication Management.
CSC8016	Apply the knowledge of Distributed File System to analyze various file systems like NFS, AFS and the experience in building large-scale distributed applications.

**Unique Course Number: CSDC8012**

**Course Name: Digital Forensic**

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSDC80121	Discuss the phases of Digital Forensics and methodology to handle the computer security incident.
CSDC80122	Describe the process of collection, analysis and recovery of the digital evidence.
CSDC80123	Explore various tools to analyze malwares and acquired images of RAM/hard drive.
CSDC80124	Illustrate windows and unix forensic investigation methods
CSDC80125	Acquire adequate perspectives of digital forensic investigation in mobile devices
CSDC80126	Analyze the source and content authentication of emails and browsers and Produce overall investigation reports.

**Unique Course Number: CSDC8013**

**Course Name: Applied Data Science**

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSDC80131	Gain fundamental knowledge of the data science process.
CSDC80132	Apply data exploration and visualization techniques.
CSDC80133	Apply anomaly detection techniques.
CSDC80134	Gain an in-depth understanding of time-series forecasting
CSDC80135	Apply different methodologies and evaluation strategies.
CSDC80136	Apply data science techniques to real world applications

**Unique Course Number: CSDC8023**

**Course Name: Social Media Analytics**

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSDC80231	Illustrate the concept of social media Analytics and its significance.
CSDC80232	Use different effective Visualization techniques to represent social media analytics.
CSDC80233	Apply Text, Action & Hyperlink Analytics effectively and efficiently.
CSDC80234	Analyze the effectiveness of social media with respect to location and search engine etc.
CSDC80235	Interpret social information
CSDC80236	Examine the ethical and legal implications of leveraging social media data.



**Unique Course Number: ILO8021**

**Course Name: Project Management**

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
ILO80211	Express characteristics of a project and life cycle of the project.
ILO80212	Apply selection criteria and select an appropriate project from different options.
ILO80213	Develop work break down structure for a project and develop a schedule and budget based on it.
ILO80214	Identify opportunities, challenges and threats to the project and decide on an approach to deal with them strategically.
ILO80215	Evaluate project with the use of Earned value technique and predict its status.
ILO80216	Create document after identifying lessons learned during various project phases for future reference.

**Unique Course Number: CSL801**

**Course Name: Distributed Computing**

**Lab**

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSL8011	Implement client-server communication programs based on socket.
CSL8012	Implement the middleware technologies that support distributed applications.
CSL8013	Implement a load balancing algorithm.
CSL8014	Implement the main underlying components of distributed systems (like group communication, name resolution).
CSL8015	Implement algorithms used for clock synchronization.
CSL8016	Implement algorithms used for mutual exclusion.

**Unique Course Number: CSDL8012**

**Course Name: Digital Forensic Lab**

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSDL80121	Explore various forensics tools and use them to acquire, duplicate and analyze data and recover deleted data.
CSDL80122	Implement penetration testing using forensics tools.
CSDL80123	Explore various forensics tools and use them to acquire and analyze live and static data.
CSDL80124	Verification of source and content authentication of emails and browsers.
CSDL80125	Demonstrate Timeline Report Analysis using forensics tools.
CSDL80126	Discuss real time crime forensics investigations scenarios.

**Unique Course Number: CSDL8013**

**Course Name: Applied Data Science Lab**

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSDL80131	Apply various stages of the data science lifecycle for the selected case study.
CSDL80132	Demonstrate data preparation, exploration, and visualization techniques.
CSDL80133	Implement and evaluate different supervised and unsupervised techniques.

**Unique Course Number: CSDL8023**

**Course Name: Social Media Analytics Lab**

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSDL80231	Understand characteristics and types of social media networks.
CSDL80232	Use social media analytics tools for business
CSDL80233	Collect, monitor, store and track social media data
CSDL80234	Analyze and visualize social media data from multiple platforms
CSDL80235	Design and develop content and structure based social media analytics models.
CSDL80236	Design and implement social media analytics applications for business.

**Unique Course Number: CSP801****Course Name: Major Project 2**

<b>Unique CO Number</b>	<b>Course Outcome (CO) Statement</b>
	Students will be able to,
CSP8011	Select and use appropriate engineering tools/components for solving the identified engineering problem
CSP8012	Implement and test various modules of the system.
CSP8013	Analyze and interpret results of the system to arrive at valid conclusions
CSP8014	Demonstrate an ability to work as an individual and a team
CSP8015	Demonstrate effective written communication through project report and technical paper on the work done.
CSP8016	Demonstrate effective oral communication through presentation of the project work.