

**Semester – VIII**

**Unique Course Number: CPC801 Course Name: Data Warehouse and Mining**

Unique CO Number	Course Outcome (CO) Statement
CS40301	Apply all the pre-processing techniques for a given data set.
CS40302	Design a data warehouse for a given application
CS40303	Perform OLAP operations to take business decisions.
CS40304	Apply various supervised and unsupervised mining algorithms for a given data set
CS40305	Analyze the given transactional data and to identify interesting patterns.

**Unique Course Number: CPC802 Course Name: Human Machine Interaction**

Unique CO Number	Course Outcome (CO) Statement
CS7051	Explain the importance of human characteristics in GUI design process.
CS7052	Describe design guidelines & compare GUI and Web User Interface
CS7053	Study various user interface components & interaction styles used for building the User Interface
CS7054	Apply the principles of HMI for developing the User Interface.

**Unique Course Number: CPC803 Course Name: Parallel and distributed Systems**

Unique CO Number	Course Outcome (CO) Statement
CS5081	Explain the principles and concepts in analyzing and designing the Parallel and Distributed System.
CS5082	Describe the middleware technologies that support distributed applications such as RPC, RMI and object-based middleware.
CS5083	Identify and resolve the challenges and opportunities faced by the Parallel and Distributed System.
CS5084	Apply the various algorithms to improve the performance and reliability of the Parallel and Distributed System.

**Unique Course Number: CPE8031 Course Name: Machine Learning**

Unique CO Number	Course Outcome (CO) Statement
CS7031	State different machine learning techniques and identify right technique for given application.
CS7032	Apply various machine learning algorithms for classification and clustering of data
CS7033	Demonstrate dimension reduction technique to optimize the performance of machine
CS7034	Explain the working of support vector machine and reinforcement learning.

**DEPARTMENT OF COMPUTER ENGINEERING**

**Unique Course Number: CPE8034**

**Course Name: Digital Forensic**

Unique CO Number	Course Outcome (CO) Statement
CS5061	Describe forensic crime using forensic template.
CS5062	Identify an attack, preserve symptoms related to it.
CS5063	Apply investigation knowledge to extract electronic evidences.
CS5064	Analyze evidences existing forensic tools.

**Unique Course Number: CPE8035**

**Course Name: Big data Analytics**

Unique CO Number	Course Outcome (CO) Statement
CS4041	Identify Key issues in Big data and its associated applications.
CS4042	Describe fundamental technologies like Hadoop, map reduce and NoSQL.
CS4043	Express data mining algorithms using map reduce technique.
CS4044	Apply knowledge of Big data analytics in various applications like recommender systems and social media applications.

**Unique Course Number: CPL801**

**Course Name: Cloud Computing Laboratory**

Unique CO Number	Course Outcome (CO) Statement
CS5071	Describe the concept of Cloud computing and its architecture.
CS5072	Apply the concept of Virtualization.
CS5073	Demonstrate Cloud services.
CS5074	Use features of commercial Clouds such as Amazon EC2 and Microsoft Azure.