

**Semester – VIII****Unique Course Number: CSC801 Course Name: Human Machine Interaction**

Unique CO Number	Course Outcome (CO) Statement
CSC8011	Identify the importance of human characteristics in GUI design process.
CSC8012	Describe Graphical user interface and Web user interface.
CSC8013	Apply interactive design process in real world application.
CSC8014	Apply the principles of HMI for developing the User interface.
CSC8015	Use interactive design styles to produce effective screen designing.

**Unique Course Number: CSC802 Course Name: Distributed Computing**

Unique CO Number	Course Outcome (CO) Statement
CSC8021	Demonstrate knowledge of the basic elements and concepts related to distributed system Technologies.
CSC80212	Illustrate the middleware technologies that support distributed applications such as RPC, RMI and Object based middleware.
CSC80213	Analyze the various techniques used for clock synchronization and mutual exclusion.
CSC80214	Demonstrate the concepts of Resource and Process management and synchronization Algorithms.
CSC80215	Demonstrate the concepts of Consistency and Replication Management.
CSC80216	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: CSDLO8012 Course Name: Natural Language Processing**

Unique CO Number	Course Outcome (CO) Statement
CSDLO80121	Understand broadly the field of natural language processing.
CSDLO80122	Understand capabilities and limitations of current natural language technologies.
CSDLO80123	Model linguistic phenomena with formal grammars.
CSDLO80124	Design, implement and test algorithms for NLP problems.
CSDLO80125	Understand the mathematical and linguistic foundations underlying approaches to the various areas in NLP.
CSDLO80126	Apply NLP techniques to design real world NLP applications such as machine translation, text categorization, text summarization, information extraction...etc.

**Unique Course Number: DLO8013 Course Name: Adhoc Wireless Network**

Unique CO Number	Course Outcome (CO) Statement
DLO80131	Identify the characteristics and features of Adhoc Networks.
DLO80132	Understand the concepts & be able to design MAC protocols for Ad Hoc networks
DLO80133	Implement protocols / Carry out simulation of routing protocols of Adhoc Networks
DLO80134	Interpret the flow control in transport layer of Ad Hoc Networks
DLO80135	Analyze security principles for routing of Ad Hoc Networks
DLO80136	Utilize the concepts of Adhoc Networks in VANETs

**Unique Course Number: ILO8021 Course Name: Project Management**

Unique CO Number	Course Outcome (CO) Statement
ILO80211	Elaborate 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 breakdown 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	Make use of Earned value technique and determine & predict status of the project.
ILO80216	Identify lessons learned during project phases and document them for future reference

**Unique Course Number: ILO8023 Course Name: Entrepreneurship Development and Management**

Unique CO Number	Course Outcome (CO) Statement
ILO80231	Define the concept of entrepreneurship and explain the importance of capital in entrepreneurship.
ILO80232	Analyze the given business case to identify the risks and opportunities in it
ILO80233	Explain the key regulations and legal aspects of entrepreneurship
ILO80234	Explain various schemes for promoting entrepreneurship by MSME.
ILO80235	Explain issues in micro and small enterprise and effective management of business.
ILO80236	Explain stages of small business life cycle and firm level growth strategies.

**Unique Course Number: CSL801 Course Name: Human Machine Interactions Lab**

Unique CO Number	Course Outcome (CO) Statement
CSL8011	To design user centric interfaces.
CSL8012	To design innovative and user-friendly interfaces.
CSL8013	To apply HMI in their day-to-day activities.
CSL8014	To criticize existing interface designs, and improve them
CSL8015	To Design application for social Task
CSL8016	To Design application for Technical Tasks

**Unique Course Number: CSL802 Course Name: Distributed Computing Lab**

Unique CO Number	Course Outcome (CO) Statement
CSL8021	Implement client-server communication programs based on socket.
CSL8022	Implement the middleware technologies that support distributed applications.
CSL8023	Implement load balancing algorithm.
CSL8024	Implement the main underlying components of distributed systems (like group communication, name resolution).
CSL8025	Implement algorithms used for clock synchronization.
CSL8026	Implement algorithms used for mutual exclusion.

**Unique Course Number: CSL803 Course Name: Cloud Computing Lab**

Unique CO Number	Course Outcome (CO) Statement
CSL8031	Describe the concept of Cloud computing and its architecture.
CSL8032	Describe the concept of Virtualization



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# SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE

Affiliated to University of Mumbai, Approved by D.T.E. & A.I.C.T.E. | Awarded 'A' Grade by D.T.E., M.S. | Electronics Engineering Program Accredited by N.B.A., New Delhi for 2 years w.e.f. 6<sup>th</sup> Aug., 2014 | Computer Engineering Program Re-Accredited by N.B.A., New Delhi for 3 years w.e.f. 1<sup>st</sup> July 2019 | Information Technology Program Accredited by N.B.A., New Delhi for 3 years w.e.f. 1<sup>st</sup> July 2019

## DEPARTMENT OF COMPUTER ENGINEERING



ISO 9001 Certified

CSL8033	Demonstrate private cloud using open source technologies.
CSL8034	Demonstrate IaaS, SaaS, PaaS service models in cloud.
CSL8035	Identify security issues on cloud.
CSL8036	Implement real world applications of cloud computing