



Semester – VI

Unique Course Number: CSC601

Course Name: System Programming & Compiler Construction

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSC6011	Identify the relevance of different system programs.
CSC6012	Describe & apply the various data structures and passes of assembler design.
CSC6013	Identify the need for different features and designing of macros.
CSC6014	Distinguish different loaders and linkers and their contribution in developing efficient user applications.
CSC6015	Construct different parsers for given context free grammars.
CSC6016	Justify the need of synthesis phase to produce object code optimized in terms of high execution speed and less memory usage.

Unique Course Number: CSC602

Course Name: Cryptography & System Security

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSC6021	Describe system security goals, concepts, classical encryption techniques and acquire fundamental knowledge on the concepts of modular arithmetic and number theory.
CSC6022	Describe and apply different encryption and decryption techniques.
CSC6023	Explain working of different message digest algorithms.
CSC6024	Discuss different authentication protocols, Digital signature and digital certificate.
CSC6025	Explain network security and illustrate different attacks on networks and security protocols like SSL, IPsec and PGP.
CSC6026	Explain various software vulnerabilities.

Unique Course Number: CSC603

Course Name: Mobile Computing

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSC6031	Identify basic concepts and principles in mobile communication & computing, cellular architecture.
CSC6032	Describe the components and functioning of mobile networking.
CSC6033	Classify variety of security techniques in mobile network.
CSC6034	Analyze the concepts of WLAN.
CSC6035	Describe and apply the concepts of mobility management.
CSC6036	Describe Long Term Evolution (LTE) architecture and its interfaces.

Unique Course Number: CSC604

Course Name: Artificial Intelligence

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSC6041	Identify the various characteristics and basic building blocks of AI agents.
CSC6042	Identify and apply the most suitable search strategy to design problem solving agent.
CSC6043	Represent a natural language description as statements in logic and apply the inference rules to design knowledge-based agent and planning agents.
CSC6044	Construct models for reasoning with uncertainty as well as the use of unreliable information.
CSC6045	Express knowledge about basic concepts of Learning. Identify learning techniques suitable for a given problem.
CSC6046	Design and develop AI applications in real world scenarios.



Unique Course Number: CSDLO6011 Course Name: Internet of Things

Unique CO Number	Students will be able to,	Course Outcome (CO) Statement
CSDLO60111	Describe the fundamentals of IOT technology.	
CSDLO60112	Discuss Things in IOT along with enabling IOT Technologies.	
CSDLO60113	Discuss core IOT functional Stack.	
CSDLO60114	Discuss different application protocols for IOT	
CSDLO60115	Discuss domain specific IOT's in detail.	
CSDLO60116	Discuss various IOT hardware items and software platforms used in projects.	

Unique Course Number: CSDLO6013 Course Name: Quantitative Analysis

Unique CO Number	Students will be able to,	Course Outcome (CO) Statement
CSDLO60131	Recognize the need of Statistics and Quantitative Analysis	
CSDLO60132	Apply the data collection and sampling methods	
CSDLO60133	Analyze data using concepts of Simple Regression	
CSDLO60134	Analyze data using concepts of Multiple Regression	
CSDLO60135	Formulate Statistical inference drawing methods	
CSDLO60136	Apply Testing of Hypothesis	

Unique Course Number: CSL601 Course Name: System Programming & Compiler Construction Lab

Unique CO Number	Students will be able to,	Course Outcome (CO) Statement
CSL6011	Identify and validate different tokens for given high level language code.	
CSL6012	Generate machine code by using various databases generated in pass one of two pass assembler.	
CSL6013	Construct different databases of single pass macro processor.	
CSL6014	Parse the given input string by constructing Top down/Bottom-up parser.	
CSL6015	Implement synthesis phase of compiler with code optimization techniques.	
CSL6016	Demonstrate tools like LEX & YACC.	

Unique Course Number: CSL602 Course Name: Cryptography & System Security Lab

Unique CO Number	Students will be able to,	Course Outcome (CO) Statement
CSL6021	Apply the knowledge of Symmetric cryptography to implement ciphers.	
CSL6022	Demonstrate asymmetric key algorithms for confidentiality and digital signatures.	
CSL6023	Demonstrate integrity and authentication by calculating message digest and checking strength of password.	
CSL6024	Explore different network reconnaissance tools to gather information about networks.	
CSL6025	Explore and use tools like sniffers, port scanners and other tools for analyzing packets in a network.	
CSL6026	Explore web application attacks.	

Unique Course Number: CSL603 Course Name: Mobile Computing Lab

Unique CO Number	Students will be able to,	Course Outcome (CO) Statement
CSL6031	Develop and demonstrate mobile applications using various tools	
CSL6032	Articulate the knowledge of GSM, CDMA & Bluetooth technologies and demonstrate it.	
CSL6033	Carry out simulation of frequency reuse, hidden terminal problem.	
CSL6034	Develop security algorithm for mobile communication network.	
CSL6035	Demonstrate simulation and compare the performance of wireless LAN	
CSL6036	Implement and demonstrate mobile node discovery and route maintains.	



Unique Course Number: CSL604 Course Name: Artificial Intelligence Lab

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSL6041	Formulate PEAS description for the given intelligent agent.
CSL6042	Apply suitable search techniques to design a problem-solving agent
CSL6043	Implement Supervised or Unsupervised Neural Network Learning Rules.
CSL6044	Implement inference using belief networks
CSL6045	Create a knowledge base using an AI language.
CSL6046	Design and implement AI systems for real-world problems.

Unique Course Number: CSL605 Course Name: Skill base Lab Course: Cloud Computing

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSL6051	Describe the concept of Cloud computing and its architecture.
CSL6052	Implement different types of virtualization techniques.
CSL6053	Implement various service models in the cloud.
CSL6054	Study various security issues related to the cloud and implement the solutions.
CSL6055	Implement Containerization and container orchestration.
CSL6056	Design and develop real world web applications and deploy them on commercial cloud(s).

Unique Course Number: CSM601 Course Name: Mini Project Lab: 2B

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSM6011	Acquire practical knowledge within the chosen area of technology for societal/research/innovation/entrepreneurship project development.
CSM6012	Identify, analyze, formulate and solve the problem with a comprehensive and systematic approach by applying engineering knowledge.
CSM6013	Contribute as an individual or in a team in development of technical projects.
CSM6014	Develop effective communication skills for presentation of project related activities.