	Computer Engineering			eering
Sem	Course Code	Course Name	CO Number	Course Outcome Statements
			CSC6011	Understand and demonstrate basic knowledge in software engineering.
			CSC6012	Identify requirements, analyze and prepare models.
			CSC6013	Plan, schedule and track the progress of the projects.
			CSC6014	Design to help development of the software projects.
			CSC6015	Identify risks; manage the change to assure quality in software projects.
VI	CSC601	Software Engineering	CSC6016	Apply testing principles on software project and understand the maintenance concepts.
			CSC6021	Identify the relevance of different system programs.
	Course Code Course Course Software Software CSC601 Software System Programm CSC602 System Programm Complier CSC603 Data Ware Maining State		CSC6022	Describe & Apply the various data structures and passes of assembler design
		System	CSC6023	Identify the need for different features and designing of macros
			CSC6024	Distinguish different loaders and linkers and their contribution in developing efficient user applications
			CSC6025	Construct different parsers for given context free grammars
VI	CSC602	Programming & Complier Construction	CSC6026	Justify the need synthesis phase to produce object code optimized in terms of high execution speed and less memory usage
			CSC6031	Understand Data Warehouse fundamentals, Data Mining Principles
			CSC6032	Design data warehouse with dimensional modelling and apply OLAP operations.
			CSC6033	Identify appropriate data mining algorithms to solve real world problems
			CSC6034	Compare and evaluate different data mining techniques like classification, prediction, clustering and association rule mining
			CSC6035	Describe complex data types with respect to spatial and web mining.
VI	CSC603	Data Warehousing & Mining	CSC6036	Benefit the user experiences towards research and innovation.
			CSC6041	Describe system security goals, concepts, classical encryption techniques and acquire fundamental knowledge on the concepts of modular arithmetic and number theory.
			CSC6042	Describe and apply different encryption and decryption techniques.

			CSC6043	Explain working different message digest
				algorithms.
			CSC6044	Discuss different authentication protocols,
				Digital signature and digital certificate.
			CSC6045	Describe network security, different attacks
				on networks and security protocols like
				SSL, IPSec and PGP.
VI	CSC604	Cryptography & System Security	CSC6046	Explain various software vulnerabilities.
			CSDLO60211	Express knowledge about basic concepts of
				Machine Learning. Identify machine
				learning techniques suitable for a given
				problem.
			CSDLO60212	Describe different learning rules of artificial
				neural network, a information processing
				system that models human brain.
			CSDLO60213	Solve optimization problems using machine
				learning based techniques.
			CSDLO60214	Solve optimization problems using machine
			CODI 0 (0015	learning based techniques.
			CSDL060215	Apply various machine learning algorithms
				for classification and clustering of data.
			CSDL060216	Apply dimensionality reduction techniques
VI	1	Machina Loarning		to optimize the performance of machine
V I	1		CSDI 060241	Demonstrate the understanding of advance
			C3DL000241	data communication technologies
			CSDI 060242	Demonstrate the understanding of WAN
			C5D1000212	Technology typically ATM.
	CSDLO602	Advance Computer	CSDLO60243	Demonstrate the understanding of packet
VI	4	Network		switching protocols such as X.25, X.75.
			CSDLO60244	Explore the issues of advance internet
				routing protocols and also quality of service
				based protocols.
			CSDLO60245	Analyze issues of traffic requirements and
				perform capacity planning.
			CSDLO60246	Demonstrate the understanding of protocol
				used for management of network.
			CSL6011	Define problem statements and identify
				requirements for software projects.
			CSL6012	Schedule and plan, with risk identification
				of the software project.
			CSL6013	Classify requirements by user types and use
				tools to develop diagrams of analysis.
			CSL6014	Illustrate design solutions for software
				project using UML diagrams.
			CSL6015	Demonstrate software change and version
* 7 *	COL COL	Software	001.001.0	management.
VI	CSL601	Engineering Lab	CSL6016	Test software project case using tool.

			CSL6021	Apply the knowledge of Symmetric
				cryptography to implement ciphers.
			CSL6022	Implement asymmetric key algorithms for
				confidentiality and digital signatures.
			CSL6023	Achieve 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
ļ		System software		packets in a network.
VI	CSL6012	Lab	CSL6026	Explore web application attacks.
			CSL6031	Design data warehouse and perform various
				OLAP operations.
			CSL6032	Implement classification, prediction,
				clustering and association rule mining
				algorithms.
			CSL6033	Demonstrate classifications, prediction,
				clustering and association rule mining
				algorithms on a given set of data sample
		Data		using data mining tools
		Warehousing &	CSL6034	Implement spatial and web mining
VI	CSL603	Mining Lab		algorithms.
			CSL6041	Apply the knowledge of Symmetric
				cryptography to implement ciphers.
			CSL6042	Demonstrate asymmetric key algorithms for
				confidentiality and digital signatures.
			CSL6043	Demonstrate integrity and authentication by
		System Security		calculating message digest and checking
VI	CSL604	Lab		strength of password.
			CSL6044	Explore different network reconnaissance
				tools to gather information about networks.
			CSL6045	Explore and use tools like sniffers, port
				scanners and other tools for analyzing
				packets in a network.
			CSL6046	Explore web application attacks.
			CSP6051	Acquire practical knowledge within the
				chosen area of technology for project
				development.
			CSP6052	Identify, analyze, formulate and handle
				programming projects with a
				comprehensive and systematic
				approach.
			CSP6053	Contribute as an individual or in a team in
				development of technical projects.
X 7 T	005 00-		CSP6054	Develop effective communication skills for
VI	CSP605	Mini-Project		presentation of project related activities.