

## Course outcome statements of 2018-2022 Batch

The below table represents the course outcome statements of the courses offered from first semester to eight semester of Computer Science Engineering 2018-2022 Batch.

Course Name		CALCULUS AND LINEAR ALGEBRA
Course Code		18MAT11
CO 1	Apply the knowledge of calculus to solve problems related to polar curves and it applications in determining the bentness of a curve.	
CO 2	Learn the notion of partial differentiation to calculate rates of change of multivariate functions and solve problems related to composite functions and Jacobians.	
CO 3	Apply the concept of change of order of integration and variables to evaluate multiple integrals and their usage in computing the area and volumes.	
CO 4	Solve first order linear/nonlinear differential equation analytically using standard methods	
CO 5	Make use of matrix theory for solving system of linear equations and compu eigenvalues and eigenvectors required for matrix diagonalization process.	

Course Name		ENGINEERING PHYSICS	
Course Code		18PHY12/21	
CO 1	Understand various types of oscillations and their implications, the role of Shock waves in various fields and recognize the elastic properties of materials for engineering applications		
CO 2	Realize t transvers	Realize the interrelation between time varying electric field and magnetic field, the transverse nature of the EM waves and their role in optical fibre communication.	
CO 3	Compute using Tir	Compute Eigen values, Eigen functions, momentum of Atomic and subatomic particles ising Time independent 1-D Schrodinger's wave equation.	
CO 4	Apprehend theoretical background of laser, construction and working of different types of lasers and its applications in different fields		
CO 5	Understa semicono	nderstand various electrical and thermal properties of materials like conductors, emiconductors and dielectrics using different theoretical models.	

Course Name		BASIC ELECTRICAL ENGINEERING
Course Code		18ELE13/23
CO 1	Analyse DC and A.C circuits.	
CO 2	Explain the principle of operation and construction of single-phase transformers.	
CO 3	Explain the principle of operation and construction of DC machines and synchronous machines.	
CO 4	Explain the principle of operation and construction of three phase induction motors.	

CO 5	Discuss concepts of electrical wiring, circuit protecting devices and earthing.

Course Name		ELEMENTS OF CIVIL ENGINEERING AND MECHANICS
Course Code		18CIV 14/24
CO 1	1 Mention the applications of various fields of Civil Engineering	
CO 2	Compute the resultant of a given force system subjected to various loads.	
CO 3	Comprehend the action of Forces, Moments and other loads on systems of rigid bodies and compute the reactive forces that develop as a result of the external loads.	
CO 4	Locate the Centroid and compute the Moment of Inertia of regular and built-up sections.	
CO 5	Express the relationship between the motion of bodies and analyse the bodies in motio	

Course Name		ENGINEERING GRAPHICS
Course Code		18EGDL15/25
CO 1	Prepare engineering drawings as per BIS conventions mentioned in the relevant codes.	
CO 2	Produce computer generated drawings using CAD software	
CO 3	Use the knowledge of orthographic projections to represent engineering information concepts and present the same in the form of drawings.	
CO 4	Develop isometric drawings of simple objects reading the orthographic projections of those objects.	
CO 5	Convert pictorial and isometric views of simple objects to orthographic views.	

Course Name		ENGINEERING PHYSICS LABORATORY	
Course Code		18PHYL16/26	
CO 1	Apprehend the concepts of interference of light, diffraction of light, Fermi energy and magnetic effect of current		
CO 2	Understand the principles of operations of optical fibres and semiconductor devices such as Photodiode, and NPN transistor using simple circuits		
CO 3	Determine elastic moduli and moment of inertia of given materials with the help of suggested procedures		
CO 4	Recognize the resonance concept and its practical applications		
CO 5	Understand the importance of measurement procedure, honest recording an representing the data, reproduction of final results		

Course Name BASIC ELEC	FRICAL ENGINEERING LABORATORY
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Course Code		18ELEL17/27
CO 1	Identify conductin	the common electrical components and measuring instruments used for ng experiments in the electrical laboratory.
CO 2	Compare power factor of lamps	
CO 3	Determin	e impedance of an electrical circuit and power consumed in a 3-phase load.
CO 4	Determir	he earth resistance and understand two way and three way control Of lamps.

Course Name		TECHNICAL ENGLISH - I
Course Code		18EGH18
CO 1	Use grammatical English and essentials of language skills and identify the nuances of phonetics, intonation and flawless pronunciation	
CO 2	Implement English vocabulary at command and language proficiency	
CO 3	Identify common errors in spoken and written communication	
CO 4	Understand and improve the nonverbal communication and kinesics	
CO 5	Perform well in campus recruitment, engineering and all other general competitive examinations	

Course Name		ADVANCED CALCULUS AND NUMERICAL METHODS	
Course	Code	18MAT21	
CO 1	Illustrate the applications of multivariate calculus to understand the solenoidal and irrotational vectors and also exhibit the interdependence of line, surface and volume integrals.		
CO 2	Demons solve su	Demonstrate various physical models through higher order differential equations and solve such linear ordinary differential equations.	
CO 3	Constru method	Construct a variety of partial differential equations and solution by exact methods/method of separation of variables	
CO 4	Explain the applications of infinite series and obtain series solutions of ordinary differential equations.		
CO 5	Apply t enginee	he knowledge of numerical methods in the modelling of various physical and ring phenomena.	

Course	ENGINEERING CHEMISTRY
Name	

Course Code		18CHE12/22	
CO 1	Use the	Use of free energy in equilibria, rationalize bulk properties and processes using thermodynamic considerations, electrochemical energy systems.	
CO 2	Causes & effects of corrosion of metals and control of corrosion. Modification of surface properties of metals to develop resistance to corrosion, wear tear, impact etc.by electroplating and electroless plating.		
CO 3	Production & consumption of energy for industrialization of country and living standards of people. Electrochemical and concentration cells. Classical, modern batteries and fuel cells. Utilization of solar energy for different useful forms of energy.		
CO 4	Environmental pollution, waste management and water chemistry.		
CO 5	Different techniques of instrumental methods of analysis. Fundamental principle nano materials.		

Course Name		C PROGRAMMING FOR PROBLEM SOLVING	
Course Code		18CPS13/23	
CO 1	Illustrate simple algorithms from different domains such as mathematics, physics etc.		
CO 2	Construct a programming solution to the given problem using C.		
CO 3	Identify and correct the syntax and logical errors in C programs.		
CO 4	Modularize the given problem using functions and structures.		

Course Name		BASIC ELECTRONICS		
Course Code		18ELN14/24		
CO 1	Describe the operation of diodes, BIT, PET and Operational Amplifiers			
CO 2	Design and explain the construction of rectifiers, regulators, amplifiers and oscillators.			
CO 3	Describe general operating principles of SCRs and its application.			
CO 4	Explain the working and design of Fixed voltage IC regulator using 7805 and A stable oscillator using timer IC 555.			
CO 5	Explain the different number systems and their conversions and construct simple combinational and sequential logic circuits using Flip-Flops.			
CO 6	Describe the basic principle of operation of communication systems and mobile phon			

Course ELEMENTS OF MECHANICAL ENGINEERING	Ţ
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Name		
Course Code		18ME15/25
CO 1	1 Identify different sources of energy and their conversion process.	
CO 2	Explain the working principle of hydraulic turbines, pumps, IC engines and refrigeration.	
CO 3	Recognize various metal joining processes and power transmission elements.	
CO 4	Understand the properties of common engineering materials and their applications in the engineering industry.	
CO 5	Discuss the working of conventional machine tools, machining processes, tools and accessories.	
CO 6	Describe the advanced manufacturing systems	

Course Name		ENGINEERING CHEMISTRY LABORATORY
Course Code		18CHEL16/26
CO 1	Handling different types of instruments for analysis of materials using small quantitie of materials involved for quick and accurate results.	
CO 2	Carrying out different types of titrations for estimation of concerns in materials using comparatively more quantities of materials involved for good results.	

Course Name		C PROGRAMMING LABORATORY
Course Code		18CPL17/27
CO 1	Write algorithms, flowcharts and programs for simple problems. Correct syntax and logica errors to execute a program.	
CO 2	Write iterative and wherever possible recursive programs	
CO 3	Demonstrate use of functions, arrays, strings, structures and pointers in problem solving.	

Course Name		TECHNICAL ENGLISH - II	
Course Code		18EGH28	
CO 1 Identify		common errors in spoken and written communication	
CO 2	Get familiarized with English vocabulary and language proficiency		
CO 3	Improve nature and style of sensible writing and acquire employment and workplace communication skills		
CO 4	Improve their Technical Communication Skills through Technical Reading and		

	Writing practices
CO 5	Perform well in campus recruitment, engineering and all other general competitive examinations.

Course Name		TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES
Course Code		18MAT31
CO 1	Use Laplace transform and inverse Laplace transform in solving differential/ integra equations arising in network analysis, control systems and other fields of engineering.	
CO 2	Demonstrate Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.	
CO 3	Make use of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.	
CO 4	Solve first and second order ordinary differential equations arising in engineering problems using single step and multistep numerical methods.	
CO 5	Determine the externals of functionals using calculus of variations and solve problem arising in dynamics of rigid bodies and vibrational analysis.	

Course Name		DATA STRUCTURES AND APPLICATIONS
Course Code		18CS32
CO 1	O 1 Use different types of data structures, operations and algorithms	
CO 2	Apply searching and sorting operations on files	
CO 3	Use stack, Queue, Lists, Trees and Graphs in problem solving	
CO 4	Implement all data structures in a high-level language for problem solving	

Course Name		ANALOG AND DIGITAL ELECTRONICS
Course Code		18CS33
CO 1	Design and analyse application of analog circuits using photo devices, timer IC, po supply and regulator IC and op-amp.	
CO 2	Explain the basic principles of A/D and D/A conversion circuits and develop the same	
CO 3	Simplify digital circuits using Karnaugh Map, and Quine-McCluskey Methods	
CO 4	Explain Gates and flip flops and make us design different data processing circuit registers and counters and compare the types.	

## CO 5 Develop simple HDL programs

Course Name		COMPUTER ORGANIZATION		
Course Code		18CS34		
CO 1	Explain the basic organization of a computer system			
CO 2	Demonstrate functioning of different subsystems, such as processor, Input/output and memory.			
CO 3	Illustrate hardwired control and micro programmed control, pipelining, embedded and other computing systems.			
CO 4	Design and analyse simple arithmetic and logical units			

Course Name		SOFTWARE ENGINEERING			
Course Code		18CS35			
CO 1	1 Design a software system, component, or process to meet desired needs within realist constraints.				
CO 2	Assess professional and ethical responsibility				
CO 3	Function on multi-disciplinary teams				
CO 4	Use the techniques, skills, and modern engineering tools necessary for engineering practice				
CO 5	Analyse, design, implement, verify, validate, implement, apply, and maintain software systems or parts of software systems				

Course Name		DISCRETE MATHEMATICAL STRUCTURE			
Course Code		18CS36			
CO 1	Use propositional and predicate logic in knowledge representation and truth verificati				
CO 2	Demonstrate the application of discrete structures in different fields of computer science.				
CO 3	Solve problems using recurrence relations and generating functions				
CO 4	Application of different mathematical proofs techniques in proving theorems in the courses				
CO 5	Compare graphs, trees and their applications.				

Course Name	ANALOG AND DIGITAL ELECTRONICS LABORATORY			
Course Code	18CSL37			

CO 1	Use appropriate design equations / methods to design the given circuit
CO 2	Examine and verify the design of both analog and digital circuits using simulators
CO 3	Make use of electronic components, ICs, instruments and tools for design and testing of circuits for the given the appropriate inputs.
CO 4	Compile a laboratory journal which includes; aim, tool/instruments/software/components used, design equations used and designs, schematics, program listing, procedure followed, relevant theory, results as graphs and tables, interpreting and concluding the findings.

Course Name		DATA STRUCTURES LABORATORY		
Course Code		18CSL38		
CO 1	Analyse and compare various linear and non-linear data structures			
CO 2	Code, debug and demonstrate the working nature of different types of data structures ar their applications			
CO 3	Implement, analyse and evaluate the searching and sorting algorithms			
CO 4	Choose the appropriate data structure for solving real world problems			

Course Name		CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code		18CPC39/49			
CO 1	Have constitutional knowledge and legal literacy				
CO 2	Understand Engineering and Professional ethics and responsibilities of Engineers.				
CO 3	Understand the cybercrimes and cyber laws for cyber safety measures				

Course Name		Vyavaharika Kannada (Kannada for Communication)	
<b>Course Code</b>		18KVK39/49	
CO 1	Understand the grammar in Kannada language and their awareness		
CO 2	Build communication skills in day-to-day activities		
CO 3	Develop interest on Kannada Language and Literature		

Course Name		Aadalitha Kannada (Kannada for Administration)				
Course Code		18KAK39/49				
CO 1						

CO 2	00000000 0000000 0000000 0000000 000000			
CO 3				

Course Name		ADDITIONAL MATHEMATICS – I			
Course Code		18MATDIP31			
CO 1	Apply concepts of complex numbers and vector algebra to analyse the problems arising i related area				
CO 2	Use derivatives and partial derivatives to calculate the rate of change of multivariate functions.				
CO 3	Analyse position, velocity and acceleration in two and three dimensions of vector valued functions.				
CO 4	Learn techniques of integration including the evaluation of double and triple integrals.				
CO 5	Identify and solve first order ordinary differential equations				

Course Name		COMPLEX METHODS	ANALYSIS,	PROBABILITY	AND	STATISTICAL
Course Code		18MAT41				
CO 1	Use the concepts of analytic function and complex potentials to solve the problems arising in electromagnetic field theory.					
CO 2	Utilize conformal transformation and complex integral arising in aerofoil theory, fluid flow visualization and image processing.					
CO 3	Apply discrete and continuous probability distributions in analysing the probability models arising in the engineering field.					
CO 4	Make use of the correlation and regression analysis to fit a suitable mathematical model for the statistical data.					
CO 5	Construct joint probability distributions and demonstrate the validity of testing the hypothesis					

Course Name		DESIGN AND ANALYSIS OF ALGORITHMS
Course Code		18CS42
CO 1	Describe	computational solutions to well-known problems like searching, sorting etc.

CO 2	Estimate the computational complexity of different algorithms.
CO 3	Devise an algorithm using appropriate design strategies for problem solving.

Course Name		OPERATING SYSTEMS
Course Code		18CS43
CO 1	Demonstrate need for OS and different types of OS	
CO 2	Apply suitable techniques for management of different resources	
CO 3	Use processor, memory, storage and file system commands	
CO 4	Realize the different concepts of OS in platform of usage through case studies	

Course Name		MICROCONTROLLER AND EMBEDDED SYSTEMS
Course Code		18CS44
CO 1	Describe the architectural features and instructions of ARM microcontroller	
CO 2	Apply the knowledge gained for Programming ARM for different applications.	
CO 3	Interface external devices and I/O with ARM microcontroller	
CO 4	Interpret the basic hardware components and their selection method based on the characteristics and attributes of an embedded system.	
CO 5	Develop the hardware /software co-design and firmware design approaches.	
CO6	Demonstrate the need of real time operating system for embedded system applications	

Course Name		OBJECT ORIENTED CONCEPTS
Course Code		18CS45
CO 1	Explain t	he object-oriented concepts and JAVA.
CO 2	Develop computer programs to solve real world problems in Java	
CO 3	Develop simple GUI interfaces for a computer program to interact with users, and t understand the event-based GUI handling principles using swings.	

Course Name		DATA COMMUNICATION
Course Code		18CS46
CO 1	Explain t	he various components of data communication.
CO 2	Explain t	he fundamentals of digital communication and switching

CO 3	Compare and contrast data link layer protocols
CO 4	Summarize IEEE 802.xx standards

Course Name		DESIGN AND ANALYSIS OF ALGORITHMS LABORATORY
Course Code		18CSL47
CO 1	Design algorithms using appropriate design techniques (brute-force, greedy, dynamic programming, etc.)	
CO 2	Implement a variety of algorithms such assorting, graph related, combinatorial, etc., in a high-level language.	
CO 3	Analyse and compare the performance of algorithms using language features.	
CO 4	Apply and implement learned algorithm design techniques and data structures to solve real-world problems	

Course Name		MICROCONTROLLER AND EMBEDDED SYSTEMS LABORATORY
Course Code		18CSL48
CO 1	Develop and test program using ARM7TDMI/LPC2148	
CO 2	Conduct the following experiments on an ARM7TDMI/LPC2148 evaluation board usin evaluation version of Embedded 'C' & Keil Uvision-4 tool/compiler	

Course Name		ADDITIONAL MATHEMATICS – II
Course Code		18MATDIP41
CO 1	Solve systems of linear equations using matrix algebra.	
CO 2	Apply the knowledge of numerical methods in modelling and solving engineering problems.	
CO 3	Make use of analytical methods to solve higher order differential equations.	
CO 4	Classify partial differential equations and solve them by exact methods.	
CO 5	Apply elementary probability theory and solve related problems	

Course Name		MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY
Course Code		18CS51
CO 1	Define m importan	anagement, organization, entrepreneur, planning, staffing, ERP and outline their ce in entrepreneurship

CO 2	Utilize the resources available effectively through ERP
CO 3	Make use of IPRs and institutional support in entrepreneurship

Course Name		COMPUTER NETWORKS AND SECURITY
Course Code		18CS52
CO 1	Explain principles of application layer protocols	
CO 2	Recognize transport layer services and infer UDP and TCP protocols	
CO 3	Classify routers, IP and Routing Algorithms in network layer	
CO 4	Understand the Wireless and Mobile Networks covering IEEE 802.11 Standard	
CO 5	Describe Multimedia Networking and Network Management	

Course Name		DATABASE MANAGEMENT SYSTEM
Course	e Code	18CS53
CO 1	Identify, analyse and define database objects, enforce integrity constraints on a database using RDBMS	
CO 2	Use Structured Query Language (SQL) for database manipulation	
CO 3	Design and build simple database systems	
CO 4	Develop applications to interact with databases.	

Course Name		AUTOMATA THEORY AND COMPUTABILITY
Course Code		18CS54
CO 1	Acquire fundamental understanding of the core concepts in automata theory and Theory of Computation	
CO 2	Learn how to translate between different models of Computation (e.g., Deterministic and Non-deterministic and Software models).	
CO 3	Design Grammars and Automata (recognizers) for different language classes and become knowledgeable about restricted models of Computation (Regular, Context Free) and their relative powers	
CO 4	Develop skills in formal reasoning and reduction of a problem to a formal model, with an emphasis on semantic precision and conciseness.	
CO 5	Classify a problem with respect to different models of Computation.	

Cour	rse Name	APPLICATION DEVELOPMENT USING PYTHON	
Course Code		18CS55	
CO 1	Demonstrate proficiency in handling loops and creation of functions.		
CO 2	Identify the methods to create and manipulate lists, tuples and dictionaries.		
CO 3	Discover the commonly used operations involving regular expressions and file system.		
CO 4	Interpret tl	he concepts of Object-Oriented Programming as used in Python.	
CO 5	Determine formats	the need for scraping websites and working with CSV, JSON and other file	

Course Name		UNIX PROGRAMMING
Course Code		18CS56
CO 1	Explain Unix Architecture, File system and use of Basic Commands	
CO 2	Illustrate Shell Programming and to write Shell Scripts	
CO 3	Categorize, compare and make use of Unix System Calls	
CO 4	Build an application/service over a Unix system	

Course Name		COMPUTER NETWORK LABORATORY	
Course Code		18CSL57	
CO 1	Analyse and compare various networking protocols.		
CO 2	Demonstrate the working of different concepts of networking		
CO 3	Implement, analyse and evaluate networking protocols in NS2 / NS3 and JAVA programming language		

Course Name		DBMS LABORATORY WITH MINI PROJECT	
Course Code		18CSL58	
CO 1	Create, U	Create, Update and query on the database.	
CO 2	Demonstrate the working of different concepts of DBMS		
CO 3	Implement, analyse and evaluate the project developed for an application		

Course Name		ENVIRONMENTAL STUDIES
Course Code		18CIV59
CO 1	Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,	
CO 2	Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.	
CO 3	Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components	
CO 4	Apply their ecological knowledge to illustrate and graph a problem and describe the realitie that managers face when dealing with complex issues.	

Course Name		SYSTEM SOFTWARE AND COMPILERS
Course Code		18CS61
CO 1	Explain system software	
CO 2	Design and develop lexical analysers, parsers and code generators	
CO 3	Utilize lex and yacc tools for implementing different concepts of system software	

Course Name		COMPUTER GRAPHICS AND VISUALIZATION
Course Code		18CS62
CO 1	Design and implement algorithms for 2D graphics primitives and attributes.	
CO 2	Illustrate Geometric transformations on both 2D and 3D objects	
CO 3	Apply concepts of clipping and visible surface detection in 2D and 3D viewing, and Illumination Models.	
CO 4	Decide suitable hardware and software for developing graphics packages using OpenGL.	

Course Name		WEB TECHNOLOGY AND ITS APPLICATIONS
Course Code		18CS63
CO 1	Adapt HTML and CSS syntax and semantics to build web pages.	
CO 2	Construct and visually format tables and forms using HTML and CSS	
CO 3	Develop Client-Side Scripts using JavaScript and Server-Side Scripts using PHP to generate and display the contents dynamically.	
CO 4	Appraise the principles of object-oriented development using PHP	

## CO 5 Inspect JavaScript frameworks like jQuery and Backbone which facilitates developers to focus on core features.

Course Name		CLOUD COMPUTING AND ITS APPLICATIONS
Course Code		18CS643
CO 1	Explain cloud computing, virtualization and classify services of cloud computing	
CO 2	Illustrate architecture and programming in cloud	
CO 3	Describe the platforms for development of cloud applications and List the application of cloud.	

Course Name		CONSERVATION OF NATURAL RESOURCES
Course Code		18CV656
CO 1	Apprehend various components of land as a natural resource and land use planning.	
CO 2	Know availability and distribution for water resources as applied to India.	
CO 3	Analyse the components of air as a resource and its pollution.	
CO 4	Discuss biodiversity & its role in ecosystem functioning.	
CO 5	Critically appreciate the environmental concerns of today.	

Course Name		SYSTEM SOFTWARE LABORATORY	
Course Code		18CSL66	
CO 1	Implement and demonstrate Lexer"s and Parser"s		
CO 2	Evaluate different algorithms required for management, scheduling, allocation and communication used in the operating system.		

Course Name		COMPUTER GRAPHICS LABORATORY WITH MINI PROJECT
Course Code		18CSL67
CO 1	Apply the concepts of computer graphics	
CO 2	Implement computer graphics applications using OpenGL	
CO 3	Animate real world problems using OpenGL	

Course Name	MOBILE APPLICATION DEVELOPMENT
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Course Code		18CSMP68		
CO 1	Create, te environme	Create, test and debug Android applications by setting up an Android development environment.		
CO 2	Implement adaptive, responsive user interfaces that work across a wide range of devices.			
CO 3	Infer long running tasks and background work in Android applications			
CO 4	Demonstra	ate methods in storing, sharing and retrieving data in Android applications.		
CO 5	Infer the re	ole of permissions and security for Android applications		

Course Name		ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
Course Code		18CS71
CO 1	Appraise the theory of Artificial intelligence and Machine Learning.	
CO 2	Illustrate the working of AI and ML Algorithms	
CO 3	Demonstrate the applications of AI and ML.	

Course Name		BIG DATA AND ANALYTICS
Course Code		18CS72
CO 1	Understand fundamentals of Big Data analytics.	
CO 2	Investigate Hadoop framework and Hadoop Distributed File system.	
CO 3	Illustrate the concepts of NoSQL using MongoDB and Cassandra for Big Data.	
CO 4	Demonstrate the MapReduce programming model to process the big data along with Hadoop tools.	
CO 5	Use Machine Learning algorithms for real world big data	
CO 6	Analyse web contents and Social Networks to provide analytics with relevant visualization tools.	

Cour	se Name	USER INTERFACE DESIGN
Course Code		18CS734
CO 1	Design th between m	e User Interface, design, menu creation, windows creation and connection nenus and windows

Course Name		CRYPTOGRAPHY
Course Code		18CS744
CO 1	Define cryptography and its principles	
CO 2	Explain Cryptography algorithms	
CO 3	Illustrate Public and Private key cryptography	
CO 4	Explain Key management, distribution and certification	
CO 5	Explain authentication protocols	
CO 6	Tell about IPSec	

Course Name		ENVIRONMENTAL PROTECTION AND MANAGEMENT
Course Code		18CV753
CO 1	Appreciate the elements of Corporate Environmental Management systems complying to international environmental management system standards.	
CO 2	Lead pollution prevention assessment team and implement waste minimization options	
CO 3	Develop, Implement, maintain and Audit Environmental Management systems fo Organizations.	

Course Name		INTERNET OF THINGS
Course Code		18CS81
CO 1	Interpret the impact and challenges posed by IoT networks leading to new architectura models	
CO 2	Compare and contrast the deployment of smart objects and the technologies to connect them to network	
CO 3	Appraise the role of IoT protocols for efficient network communication	
CO 4	Elaborate the need for Data Analytics and Security in IoT.	
CO 5	Illustrate different sensor technologies for sensing real world entities and identify the applications of IoT in Industry.	

Course Name	STORAGE AREA NETWORKS
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Course Code		18CS822
CO 1	Identify key challenges in managing information and analyse different storage networking technologies and virtualization	
CO 2	Explain components and the implementation of NAS	
CO 3	Describe CAS architecture and types of archives and forms of virtualization	
CO 4	Illustrate the storage infrastructure and management activities	