

Department of Computer Science & Engineering

Course Name: Programming for Problem Solving

Course Code: BCST 101

Year of Study: I

Semester: I

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-101.1	To apply simple algorithms for arithmetic and logical problems.	Apply	B.L-2
BCST-101.2	To remember the basics of Computer Fundamentals of Computer History	Remember	B.L-1
BCST-101.3	To translate the algorithms to programs (in C language). Also, to test and execute the programs and correct syntax and logical errors.	Evaluate	B.L-4
BCST-101.4	To apply & implement conditional branching, iteration and recursion.	Apply	B.L-2
BCST-101.5	To analyze the problem for its decomposition into functions and synthesize a complete program using divide and conquer approach.	Analyze	B.L-3

B.L – Bloom's Taxonomy Levels

(1- Remember, 2 – Apply, 3 – Analyze , 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Energy and Environmental Engineering

Course Code: BCET-301

Year of Study: II

Semester: III

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCET-301.1	Understand the energy requirement for day-to-day life and describe various energy resources.	Remember	B.L.-1
BCET-301.2	Respond to global policy initiatives and meet the emerging challenges with sustainable technological solutions in the field of energy and environment.	Apply	B.L.-2
BCET-301.3	Analyze the life cycle thinking and environmental impacts of the energy generation.	Analyze	B.L.-3
BCET-301.4	Evaluate the efficiency of different energy sources (Fossil & alternative) and inter-relation between development activities & their impact on the environment.	Evaluate	B.L- 4
BCET-301.5	Plan to have a balance between industrial growth and environment by forging alternative energy resources.	Create	B.L.-5

B.L - Bloom's Taxonomy Levels

(1- Remember, 2 - Apply, 3 - Analyze, 4 - Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Discrete Structure

Course Code: BCST-302

Year of Study: II

Semester: III

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-302.1	Understand the basic principles of sets, relations and functions and determine their properties.	Understand	B.L-1
BCST-302.2	Apply deductive logic and prove the solution of a given problem based on logical inference	Apply	B.L-2
BCST-302.3	Analyze and classify a given algebraic structure.	Analyze	B.L-3
BCST-302.4	Evaluate the given problem using deductive logic and prove the solution based on logical inference	Evaluate	B.L-4
BCST-302.5	Design a graph network for the given problem and solve with techniques of graph theory.	Create	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze, 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Data Structure

Course Code: BCST-303

Year of Study: II

Semester: III

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-303.1	Understand the concept of Dynamic memory Management, data types, algorithms, Big O notation.	Understand,	B.L-1
BCST-303.2	Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures	Apply	B.L-2
BCST-303.3	Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data	Apply	B.L-2
BCST-303.4	Analyze the performance of various algorithms.	Analyze	B.L-3
BCST-303.5	Implement appropriate sorting/searching technique for given problem.	Create	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze , 4 – Evaluate, 5 - Create)

Course Name: DIGITAL ELECTRONICS

Course Code: BECT-303

Year of Study: II

Semester: III

Course Outcomes: The student will be able to:

S.N.	COURSE OUTCOME	Bloom's Taxonomy	Bloom's Level (B.L)
BECT303.1	Represent numerical values in various number systems and perform conversions from one number system to another.	Apply	BL-2
BECT303.2	Explain operation of logic gates using IEEE/ANSI standard symbols.	Understand	BL-1
BECT303.3	Perform various minimization techniques in order to reduce the number of gates required to design any logic.	Evaluate	BL-4
BECT303.4	Analyze digital combinational circuits and sequential logic circuits.	Analyze	BL-3
BECT303.5	Design digital combinational circuits and sequential logic circuits.	Create	BL-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze, 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: OOPs

Course Code: BCST-305

Year of Study: II

Semester: III

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-305.1	Explain the ability to apply the knowledge of object-oriented concepts for solving system modeling and design problems.	Analyze	B.L-3
BCST-305.2	Specify simple abstract data types and design implementations, using abstraction functions to document them.	Apply	B.L-2
BCST-305.3	Recognize features of object-oriented design such as encapsulation, polymorphism, inheritance, and composition of systems based on object identity.	Understand	B.L-1
BCST-305.4	Name and apply some common object-oriented design patterns and give examples of their use.	Apply	B.L-2
BCST-305.5	Design applications with an event-driven graphical user interface.	Create	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze , 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Mathematics III

Course Code: BAST-401

Year of Study: II

Semester: IV

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BAST-401.1	The concept of Fourier Integral, Fourier transform, Inverse Fourier transform, Laplace transform, Inverse Laplace transform, Numerical and statistical methods /Formulae to evaluate engineering problems.	Understand	B.L-1
BAST-401.2	The Properties of the Fourier transform, Inverse Fourier transform, Laplace transform, Inverse Laplace transform The concept of the roots of algebraic and transcendental equations, interpolation, differentiation, integration, the solution of differential equations (by numerical methods) correlation, regression, moments, skewness, kurtosis and curve fitting.	Understand	B.L-1
BAST-401.3	To solve simple one dimensional heat transfer equations, linear differential equations by using Fourier and Laplace transform respectively.	Apply	B.L-2
BAST-401.4	The convolution theorems, Skewness, Kurtosis, Curve Fitting, Correlation, Rank correlation and Regression Analysis.	Analyze	B.L-3
BAST-401.5	The Fourier and Laplace transform of the functions, roots of algebraic and transcendental equations, polynomials by interpolation methods, differentiation, integration, solution of differential equations(by numerical methods) , correlation, regression, moments, skewness, kurtosis and curve fitting of any tabulated data.	Evaluate	B.L-4

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze , 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: DBMS

Course Code: BCST-402

Year of Study: II

Semester: IV

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-402.1	For a given query write relational algebra expressions for that query and optimize the developed expressions	Understand	B.L-2
BCST-402.2	For a given specification of the requirement design the databases using ER method and normalization	Apply	B.L-3
BCST-402.3	For a given specification create the SQL queries for Open source and Commercial DBMS -MYSQL, ORACLE, and DB2.	Create	B.L-6
BCST-402.4	To analyze a given query to optimize its execution using Query optimization algorithms	Analyze	B.L-4
BCST-402.5	For a given evaluation of transaction-processing system, determine the transaction atomicity, consistency, isolation, and durability	Evaluate	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze , 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: software engineering Course Code: BCST-403

Year of Study: II

Semester: IV

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-403.1	Implement software life cycle models and have a knowledge of different phases of software life cycle	Apply	B.L-2
BCST-403.2	Identify, formulate ,review, estimate and schedule complex software projects using principles of mathematics	Understand	B.L-1
BCST-403.3	Create a bug free software with good design and quality by using appropriate techniques and modern engineering I.T tools.	Create	B.L-5
BCST-403.4	Analyze verification validation activities, static ,dynamic testing debugging tools and importance of working in teams	Analyze	B.L-3
BCST-403.5	Classify the requirements and prepare software requirement documents for analyzing the projects	Evaluate	B.L-4

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze , 4 – Evaluate, 5 - Create)

Course Name: Computer Organization and Architecture

Course Code: BCST-404

Year of Study: II

Semester: IV

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-404.1	Understand the evolution of processors, their present technology and inter-process communication.	Understand	B.L-1
BCST-404.2	Apply and Implement fundamental coding schemes. Draw the functional block diagram of a single bus architecture of a computer and describe the function of the instruction execution cycle, RTL interpretation of instructions, addressing modes, instruction set.	Apply	B.L-2
BCST-404.3	Analyze flowchart for Concurrent access to memory and cache coherency in Parallel Processors and describe the process.	Analyze	B.L-3
BCST-404.4	Evaluate CPU organization and instruction, design a memory module and analyze its operation by interfacing with the CPU.	Evaluate	B.L-4
BCST-404.5	Create the organization for the Control unit, Arithmetic and Logical unit, Memory unit and the I/O unit	Create	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze , 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Theory of Automata & Formal Language

Course Code: BCST-405

Year of Study: II

Semester: IV

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-405.1	To explain basic concepts in formal language theory, grammars, automata theory, computability theory, and complexity theory	Understand	B.L-1
BCST-405.2	To demonstrate abstract models of computing, including deterministic (DFA), non-deterministic (NFA), Push Down Automata(PDA) and Turing (TM) machine models and their power to recognize the languages.	Evaluate	B.L-4
BCST-405.3	To relate practical problems to languages, automata, computability, and complexity.	Analyze	B.L-3
BCST-405.4	Students will be able to apply mathematical and formal techniques for solving problems in computer science.	Apply	B.L-2
BCST-405.5	To explain the relationship among language classes and grammars with the help of Chomsky Hierarchy.	Understand	B.L-1

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze , 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Operating System

Course Code: BCST-501

Year of Study: III

Semester: V

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-501.1	Understand the important computer system resources and the role of operating system in their management policies and algorithms, storage management policies and memory management and its allocation policies.	Understand	B.L-1
BCST-501.2	Apply the process management policies and scheduling of processes by CPU.	Apply	B.L-2
BCST-501.3	Analyze a system model for deadlock and methods for handling deadlocks	Analyze	B.L-3
BCST-501.4	Evaluate the requirement for process synchronization and coordination handled by operating system	Evaluate	B.L-4
BCST-501.5	Using the existing algorithms create solutions for real life problems or can even create new algorithms.	Create	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze , 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Computer Network Course Code: BCST-502

Year of Study: III

Semester: V

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-502.1	Understand basic computer network technology.	Understand	B.L-1
BCST-502.2	Apply the functionality of each layer of the OSI model and TCP/IP to explain the function(s) of each Layer.	Apply	B.L-2
BCST-502.3	Identify the different types of network topologies and protocols.	Analyze	B.L-3
BCST-502.4	Evaluate and implement the skills of subnetting and routing mechanisms.	Evaluate	B.L-4
BCST-502.5	Design and implement a peer to peer file sharing application utilizing application layer protocols such as HTTP, DNS, and SMTP and transportation layer protocol.	Create	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze , 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Design & Analysis of Algorithm

Course Code: BCST- 503

Year of Study: III

Semester: V

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-503.1	Understand the concept of algorithm and how design methods impacts the performance of programs.	Understand	B.L-1
BCST-503.2	Apply the appropriate data structure and algorithm design method for a specified application.	Apply	B.L-2
BCST-503.3	Analyze the performance of algorithm using various methods such as Master method, Recurrence Tree method and Substitution method.	Analyze	B.L-3
BCST-503.4	Evaluate problems using algorithm design methods such as the greedy method, divide and conquer, dynamic programming, backtracking and branch & bound.	Evaluate	B.L-4
BCST-503.5	Using the existing algorithms create solutions for real life problems or can even create new algorithms.	Create	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze, 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Java Programming Course Code: BCST -504

Year of Study: III

Semester: V

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST -504.1	Understand structure and model of the Java programming language	Understand	B.L-1
BCST -504.2	Analyze and develop exception handling and multithreaded programs	Analyze	B.L-3
BCST -504.3	Design and Develop GUI based applications using AWT & Swing	Create	B.L-5
BCST -504.4	Apply knowledge of JDBC to create programs for establishing database connectivity	Apply	B.L-2
BCST -504.5	Evaluate and Create Network programs	Evaluate	B.L-4

B.L - Bloom's Taxonomy Levels

(1- Understand, 2 - Apply, 3 - Analyze, 4 - Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: PPL

Course Code: BOCS-505(A)

Year of Study: Third

Semester:V

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BOCS 505.1	Develop a greater understanding of different programming methodologies, the issues involved in programming language design and implementation and programming language	Understand	B.L-1
BOCS 505.2	Develop an in-depth understanding of functional, logic, and object-oriented programming paradigms	Create	B.L-5
BOCS 505.3	Implement several programs in languages other than the one emphasized in the core curriculum (C Language & Other Languages)	Apply	B.L-2
BOCS 505.4	Use of functional programming languages like LISP, ML	Analyze	B.L-3
BOCS 505.5	Develop a greater understanding of evolution of datatypes, Sequence control type, methodologies, program translation process, design/implementation issues involved with variable allocation and binding	Evaluate	B.L-4

B.L - Bloom's Taxonomy Levels

(1- Understand, 2 - Apply, 3 - Analyze, 4 - Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Microprocessors and Applications Course Code:BCST601

Year of Study: III

Semester: VI

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST- 601.1	Assess and solve basic binary math operations using the microprocessor and explain the microprocessor's and Microcontroller's internal architecture and its operation within the area of manufacturing and performance.	Understand	B.L. - 1
BCST- 601.2	Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.	Apply	B.L. - 2
BCST- 601.3	Analyze assembly language programs; select appropriate assemble into machine across assembler utility of a microprocessor and microcontroller.	Analyze	B.L. - 3
BCST- 601.4	Design electrical circuitry to the Microprocessor I/O ports in order to interface the processor to external devices.	Create	B.L. - 5
BCST -601.5	Evaluate assembly language programs and download the machine code that will provide solutions real-world control problems.	Evaluate	B.L. - 4

B.L - Bloom's Taxonomy Levels

(1- Understand, 2 - Apply, 3 - Analyze, 4 - Evaluate, 5 - Create)

Department of Computer Science and Engineering

Course Name: Compiler Design

Course Code: BCST - 602

Year of Study: III

Semester: VI

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST – 602.1	Understand the different representations of intermediate code between various phases of compiler and functionality of each phase involved in the compilation process	Understand	B.L-1
BCST – 602.2	Apply different error recovery routines to recover the errors seen at different phases of compilation	Apply	B.L-2
BCST – 602.3	Analyze benefits and limitations of automatic memory management	Analyze	B.L-3
BCST – 602.4	Evaluate the parsing techniques including Bottom-up and Top-down parsing for the given programming construct described in Context Free Grammar.	Evaluate	B.L-4
BCST – 602.5	Student can create their own compiler or can work on a particular phase of compiler	Create	B.L-5

B.L - Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze, 4 – Evaluate, 5 - Create)

Department of Computer Science and Engineering

Course Name: Data Analytics

Course Code: BCST-603

Year of Study: 3rd

Semester: 6th

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-603.1	Understanding the basic concepts of Probability distribution and statistics	Understand	B.L-1
BCST-603.2	Apply the learned data analytics concepts to handle the big data problems	Apply	B.L-2
BCST-603.3	To analyze the Hadoop map reduce and Hadoop file system	Analyze	B.L-3
BCST-603.4	To evaluate the mapping, extraction, transformation and subdividing processes for data preparation in Hadoop map reduce	Evaluate	B.L-4
BCST-603.5	To create the adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc	Create	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze, 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Computer Graphics and Visualization

Course Code: BCST-604

Year of Study: III

Semester:VI

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
BCST-604.1	1. Have a basic understanding of the core concept of computer graphics	Understand	B.L-1
BCST-604.2	2. Classify and describe various Computer Graphics Tools and Techniques	Apply,	B.L-2
BCST-604.3	3. Evaluate various Algorithms Of 2D and 3D Transformations on different type of objects	EVALUATE	B.L-4
BCST-604.4	4. Creating a typical graphics Pipeline	Analyze	B.L.3
BCST-604.5	5.Capable of using OpenGL to create interactive computer graphics.	create	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze, 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Machine Learning Course Code: CS-605(B)

Year of Study: 3rd

Semester: 6th

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
CS-605(B).1	To understand the basic concepts of regression analysis, supervised and unsupervised machine learning algorithms	Understand	B.L-1
CS-605(B).2	To apply the learned concepts of machine learning to interpret the various problems	Apply	B.L-2
CS-605(B).3	To analyze the different mathematical machine learning models for various systems	Analyze	B.L-3
CS-605(B).4	To evaluate the performance of the machine learning model using measuring parameters	Evaluate	B.L-4
CS-605(B).5	To create the efficient machine learning system to solve the various real time problems	Create	B.L-5

B.L - Bloom's Taxonomy Levels

(1- Understand, 2 - Apply, 3 - Analyze, 4 - Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: System Administration

Course Code: TCS-701

Year of Study: IV

Semester: VII

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
TIT-701.1	Ability to understand the Unix Operating System and the working of the built in commands available in UNIX.	Understand	B.L-1
TIT-701.2	Analyze the duties of the system administration in UNIX environment.	Analyze	B.L-3
TIT-701.3	Understanding and apply file permissions on directories and regular files	Apply	B.L-2
TIT-701.4	Taking appropriate measures to increase system performance	Evaluate	B.L-4
TIT-701.5	Implementing basic security measures including Accounting of resources and basic for Network Services and security measures	Create	B.L-5

B.L - Bloom's Taxonomy Levels

(1- Understand, 2 - Apply, 3 - Analyze, 4 - Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Advance Computer Architecture

Course Code: TCS-702

Year of Study: IV

Semester: VII

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
TCS-702.1	Understand the classification of computers, new trends and developments in computer architecture and concept of parallelism	Understand	B.L-1
TCS-702.2	Create different system interconnect architectures and different advanced processor technology	Create	B.L-5
TCS-702.3	To apply knowledge for pipelining, instruction set architectures, memory addressing.	Apply	B.L-2
TCS-702.4	Analyze the various techniques to enhance a processors ability to exploit Instruction-level parallelism (ILP), and its challenges.	Analyze	B.L-3
TCS-702.5	To Evaluate the concept of multicore architecture and its case studies	Evaluate	B.L-4

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze, 4 – Evaluate, 5 - Create)

Department of Computer Science and Engineering

Course Name: Data warehousing and mining **Course Code:** TCS-703

Year of Study: 4th

Semester: 7th

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
TCS-703.1	To understand the Association rule mining, supervised and unsupervised learning algorithm in data mining	Understand	B.L-1
TCS-703.2	To apply the different pre-processing techniques to process the data	Apply	B.L-2
TCS-703.3	To analyze the data warehouse architecture and its components	Analyze	B.L-3
TCS-703.4	To evaluate the performance matrices using classification and clustering algorithm over the complex data objects	Evaluate	B.L-4
TCS-703.5	To create skill in selecting the appropriate data mining algorithm for solving practical problems.	Create	B.L-5

B.L - Bloom's Taxonomy Levels

(1- Understand, 2 - Apply, 3 - Analyze, 4 - Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Digital Image Processing

Course Code: TCS-071

Year of Study: 4th

Semester: VII

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
TCS-071.1	Review the fundamental concepts of a digital image processing system.	Understand	B.L-1
TCS-071.2	Analyze images in the frequency domain using various transforms.	Analyze	B.L-3
TCS-071.3	Evaluate the techniques for image enhancement and image restoration	Evaluate	B.L-4
TCS-071.4	Understand the need for image compression and to learn the spatial and frequency domain techniques of image compression.	Understand	B.L-1
TCS-071.5	Categorize various compression techniques.	Create	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze, 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: ENTREPRENURSHIP DEVELOPMENT

Course Code: TOE-05

Year of Study: IV

Semester: VII

Course Outcomes: The student will be able to:

S.N.	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
TOE-05.1	To apply the fundamental concepts of Entrepreneur.	Apply	B.L-2
TOE-05.2	To analyze the present accounting terms.	Analyze	B.L-3
TOE-05.3	To evaluate Knowledge of various Laws concerning entrepreneur.	Evaluate	B.L-4
TOE-05.4	To understand the project cost and financial report.	Understand	B.L-1
TOE-05.5	To create Balance Sheet.	Create	B.L-5

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze, 4 – Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Distributed Computing

Course Code: TCS-801

Semester: VIII

Year of Study: Fourth

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
TCS-801.1	Study software components of distributed computing systems. Know about the communication and interconnection architecture of multiple computer systems.	Understand	B.L-1
TCS-801.2	Recognize the inherent difficulties that arise due to distributed-ness of computing resources. Understanding of networks & protocols, mobile & wireless computing and their applications to real world problems.	Evaluate	B.L-4
TCS-801.3	To apply the knowledge to design, implement distributed system	Apply	B.L-2
TCS-801.4	Analyze the Cloud computing setup with its vulnerabilities and applications using different architectures	Analyze	B.L-3
TCS-801.5	To design & implement distributed system by defining cloud computing and memorize the different Cloud service and deployment models	Create	B.L-5

B.L - Bloom's Taxonomy Levels

(1- Understand, 2 - Apply, 3 - Analyze, 4 - Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Web Technology

Course Code: TCS-802

Year of Study: IV

Semester: VIII

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
TCS-802.1	Describe and differentiate different Web Extensions and Web Services	Understand	B.L-1
TCS-802.2	Apply fundamental computer theory to basic programming techniques and fundamental skills to maintain web server services required to host a website	Apply	B.L-2
TCS-802.3	Select and apply markup languages for processing, identifying, and presenting of information in web pages	Analyze	B.L-3
TCS-802.4	Use scripting languages and web services to transfer data and add interactive components to web pages	Apply	B.L-2
TCS-802.5	Create and manipulate web media objects using editing software	Create	B.L-5

B.L - Bloom's Taxonomy Levels

(1- Understand, 2 - Apply, 3 - Analyze, 4 - Evaluate, 5 - Create)

Department of Computer Science & Engineering

Course Name: Cryptography and Network Security

Course Code: TCS-089

Year of Study: IV

Semester: VIII

Course Outcomes: The student will be able to:

	Course Outcomes	Bloom's Taxonomy	Bloom's Level (B.L)
TCS-089.1	Understand various attacks and need of cryptography	Understand	B.L-1
TCS-089.2	Apply various substitution and transposition ciphers for securing a message.	Apply	B.L-2
TCS-089.3	Analyze the need and functioning of various block ciphers	Analyze	B.L-3
TCS-089.4	Create various public key algorithm for securing the message	Create	B.L-5
TCS-089.5	Evaluate how to maintain the Confidentiality, Integrity and Availability of a data	Evaluate	B.L-4

B.L – Bloom's Taxonomy Levels

(1- Understand, 2 – Apply, 3 – Analyze, 4 – Evaluate, 5 - Create)