

**Computer Science and Engineering
First Year**

S.No	Course Code	Course Outcome
1	BAST-102	<ol style="list-style-type: none"> 1. Evaluate mean value theorems and justify problems based on these theorems, calculate and use of maxima and minima related to daily life problems 2. Apply the concept of definite integral as limit of a sum, utilizing Beta and Gamma functions and evaluate the surface and volume integral 3. Develop effective mathematical tools and geometric meaning of gradient, divergence and curl; justify the Gaussdivergence, stokes and Green theorems 4. Evaluate vector space and linear transformations 5. Calculate the rank of matrix, evaluate the linear equations by elementary transformation and calculate Eigen values and corresponding Eigen vectors
2	BAST-105	<ol style="list-style-type: none"> 1. To evaluate ordinary differential equation of first order first degree, first order higher degree and higher order differentialequations with constant coefficients 2. To evaluate second order linear differential equations with variable coefficients and find power series solutions of differential equation 3. To formulate partial differential equation and evaluate linear and non-linear partial differential equation and homogeneouslinear equation with constant coefficients 4. To justify convergence of sequence and series using tests forconvergence and develop tools for of Fourier series 5. To analyze functions of complex variable, their analyticity and evaluate their differentiation and integration using Cauchy's Integral Formula and Residue theorem and its applications
3	BAST 103	<ol style="list-style-type: none"> 1. Justification of a variety of accurate sentence structures 2. Ability to infer new strategies for vocabulary expansion as well as retention and see your vocabulary grow 3. Students will develop knowledge, skills, and judgment around human communication that facilitate their ability to

		<p>work collaboratively with others</p> <ol style="list-style-type: none"> 4. To compose technical and academic article's comprehension 5. Express the capacity to use various writing forms, to achieve the specific purposes of the course
4	BCST 101	<ol style="list-style-type: none"> 1. The student will learn about basics computer, different type of data type and to formulate simple algorithms for arithmetic and logical problems 2. To translate the algorithms to programs (in C language), learn and apply the concept of different types of control structure and linear data structure 3. Ability to learn and apply the concept of searching, sorting and functions and analyze complexity of algorithm 4. To apply and test the concept of recursion and structure To decompose a problem into functions and synthesize a complete program using divide and conquer approach 5. To learn and apply the concept of pointer, linear data structure and operations on file
5	BAST 104	<ol style="list-style-type: none"> 1. Examine the principles of quantum mechanics in engineering discipline and explain the reasons for physical happenings 2. Understand the basic knowledge about wave optics and its application in optical instruments 3. Examine physical and structural concept of electronic materials Develop the basic understanding about the new superconducting materials to save and less consumption of energy 4. Analyze applied physics in engineering domain Make a vision to use laser light in various fields of science, engineering, medical science, industries and defense 5. Basic understanding about the electrostatics and its application in Evaluation of electric field and electrostatic potential for charge distributions
6	BAST-101	<ol style="list-style-type: none"> 1. Analyze and choose appropriate metals and non-metals on the basis of periodic properties such as ionization potential, electron affinity, oxidation states and electronegativity for broader industrial applications 2. Rationalize bulk properties and processes using thermodynamic considerations 3. Design and build some economical technologies for conservation, purification and effective utilization of water infuture

		<ol style="list-style-type: none"> 4. Synthesize conservation and use some of the important materials in the field of engineering 5. Differentiate the ranges of the electromagnetic spectrum used for exciting different molecular energy levels in various spectroscopic techniques
7	BMET 102	<ol style="list-style-type: none"> 1. Student will able to speculate Fundamental knowledge of thermodynamics as properties, system, process, cycle etc 2. Student will able to analyze principle of law of motion in thermodynamics 3. Categorize the different types of Engines, steam properties 4. Student will able to evaluate Fundamental knowledge of Forces, laws of motion, beams, trusses 5. Student will able to calculate and analyze stress, strain, torsion, bending analysis etc
8	BECT 101	<ol style="list-style-type: none"> 1. Analyze materials in terms of energy band gap and Group 4 materials as intrinsic and extrinsic depending on donors and acceptor impurities also evaluate Junction diode in terms of V-I Characteristics, resistance & capacitance 2. Illustrate applications of Junction Diode as rectifier, clipper, clamper, voltage multiplier circuit & analyze break down diodes (Zener & Avalanche) in terms of characteristics, resistance, ratings and application as shunt regulator 3. Analyze BJT, its configurations as CB, CE & CC and biasing also illustrate its role as amplifier 4. Evaluate JFET and MOSFET in terms of their construction, operation and characteristics 5. Analyze operational amplifiers in terms of ideal, inverting, non-inverting, summer, integrator & differentiator and its applications as instrumentation circuits, active filters, controlled sources, logarithmic amplifiers, waveform generators, Schmitt triggers, comparators

B.Tech (Computer Science & Engineering)

SNo	Course Code	Course Outcome
1.	BCSP-303	1. Select appropriate data structures as applied to specified problem definition
		2. Implement operations like sorting, searching, insertion, and deletion, traversing mechanism etc on various data structures
		3. Students will be able to implement linear and Non-linear data structures
		4. Determine and analyze the complexity of given Algorithms
2.	BCST-303	1. Select appropriate data structures as applied to specified problem definition
		2. Implement operations like searching, insertion, and deletion, traversing mechanism etc on various data structures
		3. Students will be able to implement Linear and Non-Linear data structures
		4. Implement appropriate sorting/searching technique for given problem
		5. Design advance data structure using Non-Linear data structure
		6. Determine and analyze the complexity of given Algorithms
3.	BCET 301	1. Apply advanced level knowledge, techniques, skills and modern tools in the field of Energy and Environmental Engineering
		2. Distinguish the different energy generation systems and their environmental impacts
		3. Respond to global policy initiatives and meet the emerging challenges with sustainable technological solutions in the field of energy and environment

4.	BCST 302	<ol style="list-style-type: none"> 1. For a given logic sentence express it in terms of predicates, quantifiers, and logical connectives 2. For a given a problem, derive the solution using deductive logic and prove the solution based on logical inference 3. For a given a mathematical problem, classify its algebraic structure 4. Evaluate Boolean functions and simplify expressions using the properties of Boolean algebra 5. Develop the given problem as graph networks and solve with techniques of graph theory
5.	BECT 303	<ol style="list-style-type: none"> 1. Develop a digital logic and apply it to solve real life problems 2. Analyze, design and implement combinational logic circuits 3. Classify different semiconductor memories 4. Analyze, design and implement sequential logic circuits 5. Analyze digital system design using PLD 6. Simulate and implement combinational and sequential circuits
6.	BECP 303	<ol style="list-style-type: none"> 1. Develop a digital logic and apply it to solve real life problems 2. Analyze, design and implement combinational logic circuits 3. Classify different semiconductor memories 4. Analyze, design and implement sequential logic circuits 5. Analyze digital system design using PLD 6. Simulate and implement combinational and sequential circuits
7.	BCST 305	<ol style="list-style-type: none"> 1. Specify simple abstract data types and design implementations, using abstraction functions to document them 2. Recognize features of object-oriented design such as encapsulation, polymorphism, inheritance, and composition of systems based on object identity 3. Name and apply some common object-oriented design patterns and give examples of their use 4. Design applications with an event-driven graphical user interface

<p style="text-align: center;">8.</p>	<p style="text-align: center;">BCSP 305</p>	<ol style="list-style-type: none"> 1. Specify simple abstract data types and design implementations, using abstraction functions to document them 2. Recognize features of object-oriented design such as encapsulation, polymorphism, Inheritance, and composition of systems based on object identity 3. Name and apply some common object-oriented design patterns and give examples of their Use 4. Design applications with an event-driven graphical user interface
<p style="text-align: center;">9.</p>	<p style="text-align: center;">BCSP-306</p>	<ol style="list-style-type: none"> 1. Describe the Numbers, Math functions, Strings, List, Tuples and Dictionaries in Python 2. Express different Decision Making statements and Functions 3. Interpret Object oriented programming in Python 4. Understand and summarize different File handling operations 5. design GUI Applications in Python and evaluate different database operations
<p style="text-align: center;">10.</p>	<p style="text-align: center;">BAST 401</p>	<ol style="list-style-type: none"> 1. Remember the concept of Laplace transform and apply in solving real life problems 2. Understand the concept of Fourier transform to evaluate engineering problems 3. Understand to evaluate roots of algebraic and transcendental equations 4. Understand interpolation, differentiation, integration and the solution of differential equations 5. Understand the concept of correlation, regression, moments, skewness and kurtosis and curve fitting

<p>11.</p>	<p>BCST 402</p>	<ol style="list-style-type: none"> 1. For a given query write relational algebra expressions for that query and optimize the developed expressions 2. For a given specification of the requirement design the databases using ER method and normalization 3. For a given specification construct the SQL queries for Open source and Commercial DBMS -MYSQL, ORACLE, and DB2 4. For a given query optimize its execution using Query optimization algorithms 5. For a given transaction-processing system, determine the transaction atomicity, consistency, isolation, and durability 6. Implement the isolation property, including locking, time stamping based on concurrency control and Serializability of scheduling
<p>7.</p>	<p>BCSP 402</p>	<ol style="list-style-type: none"> 1. Understand and Analyze the Data Definition Language 2. Understand and Analyze the Data Manipulation Language 3. Understanding and performing various operations and administrative commands on data using queries 4. Understanding the significance of domain and relational calculus in DBMS 5. Inferring the usage of PL/SQL 6. Providing a deep insight about Transaction Control Language
<p>8.</p>	<p>BCST 403</p>	<ol style="list-style-type: none"> 1. Implement Software life cycle models and have a knowledge of different phases of Software life cycle 2. Identify, formulate, review, estimate and schedule complex software projects using principles of mathematics 3. Create a bug free software with good design and quality by using appropriate techniques and modern engineering and IT tools 4. Analyze verification, validation activities, static, dynamic testing, debugging tools and techniques and importance of working in teams

9.	BCSP 403	<ol style="list-style-type: none"> 1. Students will be capable to analyse the generic software development skill through various stages of software life cycle 2. To ensure the quality of software through software development with various protocol based environment 3. To indentify the different courses contains Basic Structural Modeling, Advance Structural Modeling, Basic Behavioral Modeling, Advance Behavioral Modeling, Architectural Modeling, Stranded Elements, Designing Test cases, Test Suits, etc
10.	BCST 404	<ol style="list-style-type: none"> 1. 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 2. Write assembly language program for specified microprocessor for computing 16 bit multiplication, division and I/O device interface (ADC, Control circuit, serial port communication) 3. Write a flowchart for Concurrent access to memory and cache coherency in Parallel Processors and describe the process 4. Given a CPU organization and instruction, design a memory Unit and analyze its operation by interfacing with the CPU 5. Given a CPU organization, assess its performance, and apply design techniques to enhance performance using pipelining, parallelism and RISC methodology
11.	BCSP 404	<ol style="list-style-type: none"> 1. Identify the working of working of various flip-flop using digital circuits & IC's 2. Illustrate the use of multiplexer , decoders/ Encoders, adders/subtrator using various IC's 3. Test the working of counter ,shift register & delay cycle clock using capacitors & digital circuits 4. Evaluate the output of various primary & secondary logic gates using different IC's
12.	BCST 405	<ol style="list-style-type: none"> 1. Apply knowledge in designing or enhancing compilers 2. Design grammars and automata (recognizers) for different language classes 3. Apply knowledge in developing tools for language processing or text processing

13.	BCSP 405	<ol style="list-style-type: none"> 1. Apply knowledge in designing or enhancing compilers 2. Design grammars and automata (recognizers) for different language classes 3. Apply knowledge in developing tools for language processing or text processing
14.	BCSP 406	<ol style="list-style-type: none"> 1. Use MATLAB for programming purposes 2. Learn and explore MATLAB further on their own 3. Use this learning experience to learn other programming languages
15.	BCST 408	<ol style="list-style-type: none"> 1. Know about various attacks and viruses in cyber systems 2. Know about how to prevent digital attacks 3. Know about how to prevent Phishing Attacks 4. Know about how to do secure transactions
16.	TCS-501	<ol style="list-style-type: none"> 1. Apply and Analyzes the basic applications and real-time requirements of computer graphics 2. Examine various algorithms for scan conversion and filling of basic objects and their comparative analysis 3. Synthesize different clipping methods and its transformation to graphics display device and techniques for displaying 2 D transformation 4. Synthesize techniques for displaying 3 D transformation and different hidden surface removal algorithm 5. Apply basic graphics application using OPENGL a software based on graphic animations
17.	TCS-502	<ol style="list-style-type: none"> 1. Analyze the functions of each layer in OSI and TCP/IP model 2. Design the network with the help of Data Link Layer and their protocols 3. Apply suitable routing strategies for a given network 4. Analyze the transport protocols for reliable and unreliable data transfer services 5. Analyze the different application layer protocols

<p style="text-align: center;">18.</p>	<p style="text-align: center;">TCS-503</p>	<ol style="list-style-type: none"> 1. Ability to analyze the performance of algorithms wrt Space and Time Complexity 2. Ability to Choose Appropriate Data Structures wrt space and time Complexity 3. Ability to Apply various optimization techniques for improving the efficiency of Algorithms 4. Ability to Design efficient and effective Graph algorithmic solutions for different real world problems 5. Ability to Compare various Advanced Algorithms wrt Polynomial and Exponential Time Complexity
<p style="text-align: center;">19.</p>	<p style="text-align: center;">TCS-504</p>	<ol style="list-style-type: none"> 1. To evaluate the factors which affect the programming languages and methodologies with new features and design issues 2. To Analyzes the features of different types of data types and their related properties 3. To manage different types of referencing environment and memory storage 4. To compare different types of programming languages
<p style="text-align: center;">20.</p>	<p style="text-align: center;">TCS-505</p>	<ol style="list-style-type: none"> 1. To evaluate the client-server model along with the handling of request-response using http methods 2. To design front-end of the application at the client side using JSP and use JavaScript for dynamic enhancement of the static html pages 3. To formulate the application specific database actions for JSP pages 4. To evaluate the role of servlet collaboration and session tracking for data management 5. To survey the role of J2EE in different client-server architecture

<p style="text-align: center;">21.</p>	<p style="text-align: center;">TCS-506</p>	<ol style="list-style-type: none"> 1. To understand and differentiate among the discrete and continuous event simulation 2. To implement the single server single queue model and Monte Carlo simulation 3. To evaluate the process orientated programming and GPSS model 4. To understand the concept of probability distribution 5. To evaluate the analytical results and understand different queuing models
<p style="text-align: center;">22.</p>	<p style="text-align: center;">PCS-551</p>	<ol style="list-style-type: none"> 1. To implement various algorithms to scan, convert the basic geometrical primitives, transformations, Area filling, clipping 2. Apply the importance of viewing and projections 3. Analysis the fundamentals of animation, virtual reality and its related technologies 4. Design a typical graphics pipeline
<p style="text-align: center;">23.</p>	<p style="text-align: center;">PCS-552</p>	<ol style="list-style-type: none"> 1. Apply and identify the different type of network devices and their function of OSI and TCP/IP model in computer network 2. Demonstrate the ability to discuss the network with the help of data link layer and their protocol 3. Classify the routing protocols and analyze how to assign the IP addresses for the given network 4. Analyze the concept of reliable and unreliable transfer protocol of data and how TCP and UDP implement these concepts
<p style="text-align: center;">24.</p>	<p style="text-align: center;">PCS-555</p>	<ol style="list-style-type: none"> 1. To design front-end of the application at the client side using JSP and use JavaScript for dynamic enhancement of the static html pages 2. To construct the application specific database actions for JSP pages 3. To analyze the role of servlet collaboration and session tracking for data management 4. To identify the role of J2EE in different client-server architecture

<p style="text-align: center;">25.</p>	<p style="text-align: center;">PCS-553</p>	<ol style="list-style-type: none"> 1. Demonstrate the object oriented concepts of C/C++ programming language 2. Construct the C/C++ program by using the approach of Divide and Conquer such as Merge Sort, Quick Sort 3. Make use of the Algorithms using Greedy method to develop the C/C++ program such as Knapsack and finding the minimum cost of a spanning tree 4. Apply Dynamic Programming technique to build the C/C++ program such as All pairs shortest path and Travelling sales person (TSP) problem 5. Choose the Backtracking Algorithms to model C/C++ program such as Sum of subset problem and Hamiltonian cycles
<p style="text-align: center;">26.</p>	<p style="text-align: center;">TCS-601</p>	<ol style="list-style-type: none"> 1. Analyze the structure of OS and basic architectural components involved in OS design 2. To differentiate among the cooperating and concurrent processes and implement CPU scheduling 3. Examine the concept of deadlock and resource management 4. To evaluate the contiguous and non-contiguous memory allocation 5. Demonstrate the role and architecture of the LINUX OS
<p style="text-align: center;">27.</p>	<p style="text-align: center;">TCS-602</p>	<ol style="list-style-type: none"> 1. Specify and analyze the lexical, syntactic and semantic structures of advanced language features 2. To apply different parser techniques 3. Analyze a scanner, parser, and semantic analyzer without the aid of automatic generators 4. To analyze errors in different phases of compilers and their recovery methods 5. To analyze the global data flow and implementation of techniques for intermediate code and machine code optimization

<p style="text-align: center;">28.</p>	<p style="text-align: center;">TCS-603</p>	<ol style="list-style-type: none"> 1. To apply the knowledge of intelligent agents and the heuristic search techniques 2. To analyze the role of knowledge representation techniques such as propositional and predicate logic in AI 3. To apply the Bayesian network and fuzzy logic in case of uncertainty 4. To analyze different types of planning and learning techniques 5. Evaluate the role game playing, expert system and swarm intelligent system in AI
<p style="text-align: center;">29.</p>	<p style="text-align: center;">TCS 604</p>	<ol style="list-style-type: none"> 1. Evaluate and analyze the fundamental concepts in graph theory and solving practical problems using graph theory based tools 2. Collaborating the core ideology in graph theory to understand the language of graphs, trees and use of graphs as models 3. Evaluation and development of mathematical maturity to discuss the concept of graph, tree, Euler graph and cut set 4. Validate and critically assess a mathematical proof and use a combination of theoretical knowledge and independent mathematical thinking in creative investigation using the concepts of matrix
<p style="text-align: center;">30.</p>	<p style="text-align: center;">TCS-605</p>	<ol style="list-style-type: none"> 1. Interpretation of building block and architecture of the Net 2. Hands-on C# fundamentals 3. Hands-on OOPs concepts in C# 4. To develop custom applications 5. To understand and in-corporate the shared libraries

<p style="text-align: center;">31.</p>	<p style="text-align: center;">THU-608</p>	<ol style="list-style-type: none"> 1. To analyze the thoughts of management and to apply them in different scenarios in business according to the requirement 2. To analyze and evaluate the relationship between external system and the business with the help of technology and to develop appropriate strategies and decisions for the success and smooth functioning of the business enterprise 3. To analyze and evaluate the interests of job requirements and to design the organizational hierarchal blueprint best suited to the work in the organization and achieve maximum efficiency with minimum of Huss 4. To analyze the various and new methods of motivating the employees and to apply these methods in different ways to ensure the achieving the mission and vision of the organization
<p style="text-align: center;">32.</p>	<p style="text-align: center;">PCS-651</p>	<ol style="list-style-type: none"> 1. Identify the functions, structures, and history and design issues associated with the operating systems 2. Apply various process scheduling algorithms for process management 3. Illustrate the concepts of process synchronization and methods to handle Deadlocks 4. Analyze virtual memory techniques and page replacement algorithms
<p style="text-align: center;">33.</p>	<p style="text-align: center;">PCS-655</p>	<ol style="list-style-type: none"> 1. Select appropriate data structures as applied to specified problem definition 2. Implement operations like searching, insertion, and deletion, traversing mechanism etc on various data structures 3. Students will be able to implement Linear and Non-Linear data structures 4. Implement appropriate sorting/searching technique for given problem 5. Design advance data structure using Non-Linear data structure 6. Determine and analyze the complexity of given Algorithms

<p>34.</p>	<p>PCS-653</p>	<ol style="list-style-type: none"> 1. Ability to understand the various section of prolog program 2. Ability to implement recursion in prolog 3. Ability to implement the backtracking in prolog 4. Ability to implement dfs and bfs in prolog 5. Ability to implement diagnosis system (Expert System) in prolog
<p>35.</p>	<p>PCS 652</p>	<ol style="list-style-type: none"> 1. To apply the knowledge of lex tool & yacc tool to develop a scanner & parser 2. To design & conduct experiments for NFA and DFA from a given regular expression 3. To design & implement a front end of the compiler 4. To develop program for solving parser problems 5. To create program for intermediate code generation 6. To learn the new code optimization techniques and apply it to improve the performance of a program in terms of speed & space
<p>36.</p>	<p>TCS 701</p>	<ol style="list-style-type: none"> 1. It defines an outline about duties and responsibilities of an Administrator along with the managing skills for managing user accounts and providing various privileges to the users 2. It outlines the organization and management of the data into various storage structure along with networking concepts 3. Students will Analyze and examine the working, configuring, testing and setting up a firewall and various attacks 4. Will synthesize Network Information System and its usage in practical life 5. Will summarize active directory and LDAP

<p style="text-align: center;">37.</p>	<p style="text-align: center;">TCS 702</p>	<ol style="list-style-type: none"> 1. Students can Analyze and perceive the operating of parallel computers, resource Dependencies and construct flow design 2. Evaluate the static and dynamic interconnection networks together with examine and dealing of advanced processors 3. Design and evaluate with and dealing of varied pipelining processors in conjunction with memory hierarchy coming up with 4. Design and attracts a transparent notion regarding digital computer design in conjunction with varied approaches in coming up with protocols and synchronization 5. Analyze and implement the multicore architecture of various processors
<p style="text-align: center;">38.</p>	<p style="text-align: center;">TCS 703</p>	<ol style="list-style-type: none"> 1. Analyze the basic functions of data warehouse and data mining 2. Design data warehouse with dimensional modelling and apply different operations 3. Analyze appropriate data mining algorithms to solve real world problems 4. Evaluate different data mining techniques like classification, prediction 5. Analyze and Evaluate the clustering and association rule mining with complex data types and web mining
<p style="text-align: center;">39.</p>	<p style="text-align: center;">TCS 073</p>	<ol style="list-style-type: none"> 1. Students will Analyze the changing trends in communication industry 2. Students will infer various characteristics of GSM and GPRS Cellular networks 3. Students will infer about planning and analyzing multimedia services and packet transferring mechanism 4. Students will Analyze working and implementation of radio access network 5. It will give students an insight about optimization and upgrading network performance

<p>40.</p>	<p>PCS-751</p>	<ol style="list-style-type: none"> 1. Ability to implement and remember factual knowledge relevant to system administration tools and technologies 2. Ability to identify abnormal behaviour in a computing system, make hypothesis on how to address it, and implement solutions 3. Ability to review alternative system administration technologies or solutions based on requirements in order to make recommendation on the most suited 4. Ability to write how-to documents, white papers, tutorials guiding other system administrators or users step-by-step through system administration tasks
<p>41.</p>	<p>PCS-758</p>	<ol style="list-style-type: none"> 1. To enhance communication skills of students using presentation 2. To make students able to Analyze the latest technical trends
<p>42.</p>	<p>PCS-757</p>	<ol style="list-style-type: none"> 1. To apply the Concept of Computer Science & Engineering 2. To demonstrate their project work by presentation and enhance communication skills 3. To demonstrate ethics and technical skills 4. To evaluate the outcome of the project work and present through report
<p>43.</p>	<p>TCS-801</p>	<ol style="list-style-type: none"> 1. Analyze the advantages and challenges in designing distributed algorithms for different primitives like mutual exclusion, deadlock, detection, etc 2. Analyze the different types of faults and fault handling techniques 3. Analyze different algorithms and techniques for the design and development of distributed systems 4. Evaluate the performance and flexibility issues related to systems design decisions 5. Analyze and evaluate the role of grid computing and its advantages

44.	TCS-802	<ol style="list-style-type: none"> 1. Summarize the Web development strategies, and analyze the planning & process development of web along with identification of objects 2. To Evaluate HTML, XML and WEB servers and basic concepts of java scripts 3. Java beans, JDK, JSDK are surveyed also working of HTTP and various security issues are evaluated 4. CO Synthesized techniques for JSP and various application tools for JSP 5. To apply database programming using JDBC
45.	TCS-083	<ol style="list-style-type: none"> 1. To Analyze the network design principles 2. Evaluate the performance of routing principles & switching techniques 3. Focus and evaluation on Network, Vulnerabilities and Threats 4. Facilitating the implementation of wireless LAN & QoS services 5. Evaluate and analyze Network Management Design
46.	TCS-089	<ol style="list-style-type: none"> 1. Analyze various security attacks also different encryption standards with various modes of operations 2. Implementation of different encryption and decryption algorithm 3. Students will learn about evaluation of authentication functions and algorithms used for security 4. Analyzation of Kerberos, PGP and S/MIME is done in this unit along with various authentication applications are explained 5. Application of IP, web and system security is discussed also trusted system are justified
47.	PCS-852	<ol style="list-style-type: none"> 1. The students will be able to Analyze a web page and identify its elements and attributes 2. Ability to Create web pages using XHTML and Cascading Style Sheets Build dynamic web pages using JavaScript (Client side programming) 3. Ability to Create XML documents and Schemas 4. The students will be able to Design and implement dynamic websites with good aesthetic sense of designing and latest

		technology
48.	PCS 857	<ol style="list-style-type: none">1. To apply the Concept of Computer Science & Engineering2. To demonstrate their project work by presentation and enhance communication skills3. To demonstrate ethics and technical skills4. To evaluate the outcome of the project work and present through report