SOT- CSE- SEM-1

Course Code	BTEC101	
Course Name	Basics of Electrical and Electronics	
	CO	**BT**
CO1	Understand the basics of Electrical Engineering	Understand
CO2	Understand the applications of electrical components	Understand
CO3	Analyze the use and importance of electrical machines in industries	Analyse
CO4	Understand how industries are working with electrical machines	Understand
CO5	Apply test equipment's in electrical projects.	Apply

Course Code	BTMA103	
Course Name	Mathematics-I	
	CO	**BT**
CO1	Apply the concepts of limits, continuity and derivatives to solving problems.	Apply
CO2	Determine convergence or divergence of sequences and series	Evaluate
CO3	Use Taylor and MacLaurin series to represent functions. Solve application problems	Apply
CO4	Understand functions of several variables, limits, continuity, partial derivatives. Identify and solve some system of linear equations.	Understand
CO5	To deal with functions of several variables that is essential in most branches of engineering. The essential tool of matrices and linear algebra in a comprehensive manner.	Analyse

Course Code	BTCS104	
Course Name	Computer Programming-I	
	CO	**BT**
CO1	Understanding of basic components of programming language	Understand
CO2	Understand any other programming language with the knowledge of array and string.	Understand
CO3	Apply function concepts in real time application.	Apply
CO4	Analyze working of structure in c or otherprogramming language programs.	Analyse
CO5	Develop applications using C programming	Create

Course Code	BTPY105	
Course Name	Engineering Physics	
	CO	**BT**

CO1	Understanding of the basic knowledge of harmonic motions.	Understand
CO2	Conceptualization of different electric and magnetic properties of materials	Apply
CO3	Understanding different engineering applications of optical fundamentals.	Understand
CO4	Conceptualization of construction and working of lasers	Apply
CO5	To embrace the concept of the quantum physics and have basic understanding of its principles.	Analyse

Course Code	BTCS106	
Course Name	ICT Workshop	
	CO	**BT**
CO1	Understand ,read and analyze as a definition for the manufacturing of a part.	Analyze
CO2	Apply to fabricate components with their own hands.	Apply
CO3	Apply the practical difficulties encountered in industries during any assembly work.	Apply
CO4	Develop the Practical knowledge of the dimensional accuracies and dimensional tolerances possible with different manufacturing processes.	Create
CO5	Develop small devices of their interest by assembling different components.	Create

Course Code	BTFS108	
Course Name	Fundamentals in Fire & Environment, Health, Safety	
	CO	**BT**
CO1	Understand concept of industrial safety	Understand
CO2	Evaluate the risk by qualitative risk assessment	Evaluate
CO3	Understand environmental pollution and control measures	Understand
CO4	Understand principles of fire	Understand
CO5	Understand advanced firefighting system	Understand

Course Code	AECC101	
Course Name	Fundamentals of English	
	CO	**BT**
CO1	To emphasize the development of listening and reading skills among learners	Analyse
CO2	To equip them with writing skills needed for academic as well as workplace context	Apply
CO3	To enable learners of Engineering and Technology develop their basic communication skills in English	Understand
CO4	To strengthen the fundamentals in English Language.	Create

CO5	To build up the confidence to communicate with the world.	Create

SOT- CSE- SEM-2

Course Code	BTCS201	
Course Name	Object Oriented Programming with C++	
	CO	**BT**
CO1	Understand object-oriented programming features in C++.	Understand
CO2	Implement computer programs to solve real world problems based on object-oriented principles	Apply
CO3	Understand the concept of Array,pointers and Polymorphism.	Understand
CO4	Analyze concept of inheritance and exception handling	Analyse
CO5	Develop the applications using object oriented programming with C++	Create

Course Code	BTCS202	
Course Name	Data Structures & Algorithms	
	CO	**BT**
CO1	Understand and use the process of abstraction using a programming language such as' C++.	Understand
CO2	Analyze step by step and develop algorithms to solve real world	Analyse
CO3	Implementing various data structures viz. Stacks, Queues, Linked Lists,	Apply
CO4	Understanding various searching & sorting techniques.	Understand
CO5	Identify the appropriate data structure to design efficient algorithm for	Analyse

Course Code	BTCS203	
Course Name	Web Technologies	
	CO	**BT**
CO1	Understand the importance and need of client side scripting	Understand
CO2	Analyze and Develop static and dynamic web applications.	Create
CO3	Develop responsive websites	Create
CO4	Apply the jquery to enhance the creative web page.	Apply
CO5	Apply Bootstrap in real time web application development.	Apply

Course Code	BTCS204	
Course Name	Mathematics - II	
	CO	**BT**
CO1	understand the terminologies of basic probability, two types of random variables and their probability functions observe and analyze the behavior of various discrete and continuous probability distributions	Understand
CO2	understand the central tendency, correlation and correlation coefficient and also regression	Apply
CO3	apply the statistics for testing the significance of the given large and small sample data and use time series analysis for predictions	Analyse

Course Code	BTCS205	
Course Name	Digital Electronics	
	CO	**BT**
CO1	Understand the number system	Understand
CO2	Apply Boolean algebra for K-maps	Apply
CO3	Analyze combinational circuits	Analyze
CO4	Understand working of sequential circuits.	Understand
CO5	Comprehend understanding of memory structure	Understand

Course Code	AECC201	
Course Name	Communication Skills in English	
	CO	**BT**
CO1	To enable learners develop their basic communication skills in English.	Understand
CO2	To equip them with writing skills needed for academic as well as workplace context.	Evaluate
CO3	To prepare students for professional communication at world level.	Apply
CO4	To develop corporate communicational attitude.	Create
CO5	To strengthen digital communication using technological modules and expertise.	Apply

SOT- CSE- SEM-3

Course Code	BTCS301	
Course Name	Discrete Mathematics	
	CO	**BT**
CO1	Understand the concept of sets	Understand
CO2	Analyze use of propositional theory in real time scenario	Analyse
CO3	Apply recurrence relations in other applications	Apply
CO4	Apply generation of functions in algebraic structures.	Apply
CO5	Comprehend the use of graph theory in other domains	Evaluate

Course Code	BTCS302	
Course Name	Object Oriented Programming with JAVA	
	CO	**BT**
CO1	Understand basic java programming	Understand
CO2	Analyze how inbuilt functions are working	Analyze
CO3	Comprehend use of inheritance in real time applications.	Understand
CO4	Develop and handle GUI based applications	Create
CO5	Apply network programming with java based applications	Create

Course Code	BTCS303	
Course Name	Operating System	
	CO	**BT**
CO1	Understand the basics of an operating systems and its major components	Understand
CO2	Implementation of shell programming	Apply
CO3	Create and/or modify concurrent programs	Create
CO4	Demonstrate competence in recognizing and using operating system features	Apply
CO5	Comprehend the mechanism of operating Systems to handle processes, memory and file management	Evaluate

Course Code	BTCS304	
Course Name	Computer Organization	
	CO	**BT**
CO1	Understand how fetch-decode and execute cycle works.	Understand
CO2	Analyze inside mechanism of computer	Analyze
CO3	Apply different information representation in intermediate code	Apply
CO4	Able to Evaluate and Manage memory for different purposes.	Evaluate
CO5	Comprehend input output organization of computer with different storage devices,	Apply

Course Code	BTCS305	
Course Name	Specialized Track Elective-I-Python Programming	
	CO	**BT**
CO1	Understand the basics of python programming	Understand
CO2	Understand the concepts of loops and control structures for different purposes.	Understand
CO3	Comprehend about working of list and dictionaries	Analyse
CO4	Design python application with the use of date-time and other functions.	Create
CO5	Apply in development of real time applications of IOT	Apply

Course Code	AECC301	
Course Name	Entrepreneurship Development	
	CO	**BT**
CO1	Develop skills for evaluating, articulating, refining, and pitching a	Understand
CO2	Analyze the elements of success of entrepreneurial ventures.	Analyse
CO3	Analyze Feasibility of the project (Financial and Non-Financial) and	Analyse
CO4	Develop present successful work, collaboration and division of tasks	Create
CO5	understand the application of the tools necessary to create	Understand

SOT- CSE- SEM-4

Course Code	BTCS401	
Course Name	Numerical Methods in Computer Science & Engineering	
	CO	**BT**
CO1	Organize & present quantitative data and think critically with respect to quantitative information characterized by the centre, spread, and skewness of data.	Understand
CO2	Develop the concept of a sampling distribution and infer some characteristics of a population by examining a portion of the population and to make informed decision in a probabilistic environment	Create
CO3	Express quantitatively the degree and direction of association between two linearly related variables and fit a regression model to the data as well as investigating the explained portion	Evaluate
CO4	Understand optimization problems particularly constrained linear models	Understand
CO5	Apply knowledge of linear programming in real scenarios	Apply

Course Code	BTCS402	
Course Name	Computer Networks	
	CO	**BT**
CO1	Analyze any network configuration	Analyse
CO2	Understand TCP/IP protocol for different layers	Understand
CO3	Understand the network traffic and their communication	Apply
CO4	Comprehend the working of transport layer	Understand
CO5	Apply security encryption aspects in different technologies	Apply

Course Code	BTCS403	
Course Name	Microprocessor & Interfacing	
	CO	**BT**
CO1	Understand working of each components in microprocessor	Understand
CO2	Comprehend architecture of 8085 with its instruction and addressing formats	Understand
CO3	Write assemble code and understand the working of 8255A	Apply
CO4	8085	Analyze
CO5	Apply the knowledge regarding ARM processor in real time applications	Apply

Course Code	BTCS404	
Course Name	Database Management Systems	
	CO	**BT**
CO1	Understand various aspects of the relational database like models, functional dependencies and normalization	Understand
CO2	Design databases for various scenarios	Create
CO3	Interpret transaction processing, concurrency and recovery protocols for effective database management	Apply
CO4	Design database with all necessary constraints	Create
CO5	Evaluate various storage and retrieval methods to correlate with relational model through appropriate indexing	Evaluate

Course Code	BTCS405	
Course Name	Specialized Track Elective -I - Fundamentals of AI & ML	
	CO	**BT**
CO1	Understand basic concepts for AI	Understand
CO2	Analyze use of machine learning in real-time applications	Analyze
CO3	Develop critical thinking skills to evaluate the performance and limitations of different AI techniques and algorithms.	create
CO4	Understanding the different types of machine learning algorithms, such as supervised, unsupervised, and reinforcement learning.	Understand
CO5	Implement real time application with AI and Machine Learning.	Apply

Course Code	BTCS406	
Course Name	Specialized Track Elective-II - Fundamentals of IoT	
	CO	**BT**
CO1	Understand basics of IOT	Understand
CO2	Understand basics of hardware components and its configurations	Understand
CO3	Provide brief idea about protocols used for IOT device communication.	Understand
CO4	Elaborate understanding of remote data monitoring	Evaluate
CO5	Implement real time application with IoT	Apply

Course Code	BTCS407	
Course Name	Specialized Track Elective-III - Fundamentals of Cyber Security	
	CO	**BT**
CO1	Students will understand fundamentals of cyber security	Understand
CO2	Students will learn about risk, policies and procedures related to cyber security	Remember
CO3	Students will learn about security architecture	Understand
CO4	Students will learn about secure systems and network	Remember
CO5	Students will learn about security implications.	Analyse

Course Code	AECC401	
Course Name	Environmental Studies	
	CO	**BT**
CO1	Remember terminologies of environmental studies	Remember
CO2	Understand concept of ecosystem & its interaction in environment	Understand
CO3	Understand use of renewable and nonrenewable energy in environment	Understand
CO4	Edebate environmental science with use of appropriate scientific	Understand
CO5	Understand environmental laws & regulations	Understand

SOT- CSE- SEM-5

Course Code	BTCS501	
Course Name	Design and Analysis of Algorithms	
	CO	**BT**
CO1	Understnad notion of algorithmic complexity and logic of fundamental algorithm	Understand
CO1	Apply fundamental algorithms in real life problem solving	Apply
CO3	Evaluate suitable algorithmic strategies to solve a problem effectively and efficiently	Evaluate
CO4	Evaluate different algorithms with respect to time and space complexity	Evaluate
CO5	Create algorithms to solve various computational problems	Create

Course Code	BTCS502	
Course Name	Software Engineering	
	CO	**BT**
CO1	Understand SRS (Software Requirement Specification)	Understand
CO2	Apply the concept of Functional Oriented and Object Oriented Approach	Apply
CO3	Understand and Recognize how to ensure the quality of software product.	Understand
CO4	Apply various testing techniques and test plan.	Apply
CO5	Analyze the modern Agile Development for the Concept of Industry.	Analyze

Course Code	BTCS503	
Course Name	Advanced Web Technologies	
	CO	**BT**
CO1	Apply the concept of php and ajax	Apply
CO2	Develop web applications using AngularJs	Create
CO3	Design and develop interactive web applications using NodeJs	Create
CO4	Connect MongoDB with realtime web applications.	Apply
CO5	Develop real time applications through the Django framework.	Create

Course Code	BTCS504	
Course Name	Specialized Track Elective-I -Data Science for Engineers	
	CO	**BT**
CO1	Understand and manipulate basic of python and data structure	Understand
CO2	Implement various data preprocessing techniques	Apply
CO3	Visualize the real time data	Analyse
CO4	Able to warangl the data.	Evaluate
CO5	Able to do statistical analysis.	Analyse

Course Code	BTCS505

Course Name	Specialized Track Elective- II - IoT Architecture and Protocols	
	CO	**BT**
CO1	Explore the interconnection and integration of various machines.	Remember
CO2	Ability to design and develop IOT Devices.	Create
CO3	Understand the application protocols of IOT ·	Understand
CO4	Implement and connect the IoT devices with AWS Cloud	Apply
CO5	Apply the knowledge of IoT in various real time projects as case study..	Apply

Course Code	BTCS507	
Course Name	Specialized Track Elective -III -Network security and access control	
	CO	**BT**
CO1	Discuss major issues concerning network security.	Understand
CO2	Understand risk involved in access control	Understand
CO3	Explore different Procedure, and Guidelines for access control policies	Analyse
CO4	Implement the access control system	Apply
CO5	Implementation of access control system for information system	Apply

Course Code	AECC502	
Course Name	Business Communication (2019) / Disaster Risk Management (2020)	
	CO	**BT**
CO1	Remember terminologies and concept of disasters	Remember
CO2	Understand framework and concept of disaster management cycle	Understand
CO3	Understand guidelines and policies of disaster management in India	Understand
CO4	Understand role of science and technology in disaster management	Understand

SOT- CSE- SEM-6

Course Code	BTCS602	
Course Name	Theory of Computation	
	CO	**BT**
CO1	Understand formal language theory and its application to computer science	Understand
CO2	Understand properties of the corresponding language classes defined by various computation models and the relations between them	Understand
CO3	Apply mathematical preliminaries to develop the basic components of language design	Apply
CO4	Evaluate computer science problems as mathematical statements and to formulate proofs	Evaluate
CO5	Design simple computational machines using the concepts of language theory	Create

Course Code	BTCS603	
Course Name	Advanced Java Technology	
	CO	**BT**
CO1	Use and understand advanced technology in Java such as Internationalization, and Remote method Invocation	Create
CO2	Learn and understand how to work with JavaBeans	Understand
CO3	Develop web application using Java Servlet and Java Server Pages technology	Create
CO4	Apply event handling on AWT and Swing components	apply
CO5	Learn and implement programs on advanced topics including multithreading, internet networking, and JDBC database connectivity	Create

Course Code	BTCS604	
Course Name	Specialized Track Elecive I -Deep Learning	
	CO	**BT**
CO1	1. Understanding the history of artificial intelligence (AI) and its	Understand
CO2	2.Apply basic principles of AI in solutions that require problem solving,	Apply
CO3	3. Analyze and evaluate various deep learning models.	Analyse
CO4	4.Develope applications in an 'AI language', expert system shell, or data mining tool.	Create
CO5	5. Implement deep learning algorithms and solve real-world problems	Apply

Course Code	BTCS605	
Course Name	Specialized Track Elective-II - IoT Network, Signal & Signal processing	
	CO	**BT**
CO1	Understand about the various types of signals and its processing techniques.	Understand
CO2	Acquire knowledge of signal conditioning.	Understand

CO3	Evaluate about the processing of digital signal.	Evaluate
CO4	Analyze the knowledge of digital signal transmission.	Analyse
CO5	Apply the knowledge for protocol conversion.	Apply

Course Code	BTCS606	
Course Name	Specialized Track Elective-I -Big Data Architecture and Programming	
	CO	**BT**
CO1	Explain the motivation for big data systems and identify the main sources of Big Data in the real world	Understand
CO2	Demonstrate an ability to use frameworks like Hadoop, NOSQL to efficiently store, retrieve and process Big Data for Analytics.	Analyse
CO3	Implement several Data Intensive tasks using the Map Reduce Paradigm	Apply
CO4	and finding associations in Big Data .	Apply
CO5	Graphs and Social Media data.	Create

Course Code	BTCS607	
Course Name	Specialized Track Elective-II - Data Analytics for IoT	
	CO	**BT**
CO1	Understand the basic concepts of big data analytics.	Understand
CO2	Analyze different applications Internet of things.	Analyse
CO3	Familiarity with data analytics tools and techniques	Understand
CO4	Ability to collect and analyze IoT data	Apply
CO5	Creating the IoT based applications using big data platforms	Create

Course Code	BTCS608	
Course Name	Specialized Track Elctive-III - Platform & Application security principles	
	CO	**BT**
CO1	Describe web-based applications and associated threats and differentiate	Understand
CO2	Understand secure system design Devescops and implement	Apply
CO3	Minimizing risks by combining application security testing tools	Apply
CO4	Identify the vulnerabilities in the web applications	Analyse
CO5	Deploy and understand system security principle	Create

Course Code	BTCS609	
Course Name	Specialized Track Elctive -III - Wireless and Mobile Device security	
	CO	**BT**
CO1	Comprehend the fundamental concepts of mobile and wireless network	Understand
CO2	Identify security threats in wireless networks and design strategies to	Create
CO3	Design secured network application considering all possible threats	Create

Course Code	BTCS601	
Course Name	Indian Constitution	
	CO	**BT**
CO1	Understand importance of Indian constitution	Understand
CO2	Understand powers of state and union government	Understand
CO3	Understand administration of Indian Constitution	Remember

Course Code	BTCS601A	
Course Name	Cyber Security	
	CO	**BT**
CO1	Understand fundamental blocks of Cyber security	Understand
CO2	Analyze security threats and vulnerabilities	Analyze
CO3	Analyze network security	Analyze
CO4	Comprehend system and application security	Understand
CO5	learn and understand blockchain technology	-

Course Code	BTCS601B	
Course Name	Dot Net Technology	
	CO	**BT**
CO1	Understand the existing fundamental blocks of C# codes.	Understand
CO2	Develop the console and GUI applications using C# .Net.	Create
CO3	Create the dynamic web page using ASP.NET Controls which interact with	Apply
CO4	Comprehend the advanced concepts of .NET Programming while preparing	Apply
CO5	Analyze security aspect of an application.	Analyse

Course Code	BTCS601C	
Course Name	Digital Image Processing	
	CO	**BT**
CO1	Analyze general terminology of digital image processing.	Understand
CO2	Examine various types of images, intensity transformations and spatial	Analyze
CO3	Develop Fourier transform for image processing in frequency domain.	Create
CO4	Evaluate the methodologies for image segmentation, restoration etc	Evaluate
CO5	Implement image process and analysis algorithms.	Apply

Course Code	BTCS601D	
Course Name	R Programming	
	CO	**BT**
CO1	Understand basics of R programming.	Understand
CO2	Understand the process of data preparation.	Understand
CO3	Evaluate the data and prepare it for analysis	Evaluate
CO4	Analyze a data set in R and present findings using the appropriate R packages	Analyse
CO5	Apply various concepts to write programs in R	Apply

Course Code	BTCS601E	
Course Name	Concepts of AR / VR	
	CO	**BT**
CO1	To analyse the hardware and software requirements.	Analyze
CO2	To use the different intersection techniques.	Apply
CO3	To design 3D interfaces.	Apply
CO4	Learn the fundamental aspects of designing and implementing using VR.	Understand
CO5	Learn about multimodal virtual displays for conveying the techniques for evaluating virtual interfaces	Evaluate

SOT- CSE- SEM-7

Course Code	BTCS702	
Course Name	Mobile Application Development	
	CO	**BT**
CO1	Understanding algorithm/protocols, environments and communication systems in mobile computing	Understand
CO2	Evaluate the performance of GSM, GPRS and other technologies	Evaluate
CO3	Apply methods in storing, sharing and retrieving data in Android applications	Apply
CO4	Implement different Android applications	Create
CO5	Implement IOS applications	Create

Course Code	BTCS703	
Course Name	Specialized Track Elective- I -Natural Language Processing	
	CO	**BT**
CO1	1. Understand and comprehend the key concepts of NLP and identify NLP challenges and issues	Understand
CO2	2.Develop language modelling for various text across the different languages	Create
CO3	3. Apply computational methods to understand language phenomena of word sense disambiguation	Apply
CO4	4. Design and develop applications for text or information extraction and classification	Create
CO5	5. Apply different Machine translation techniques for translating a source to target languages	Apply

Course Code	BTCS705	
Course Name	Specialized Track Elective- I Machine Learning for Intelligent	
	CO	**BT**
CO1	1. Understand the concepts of Instance Based Learning And Bayesian Learning	Understand
CO2	2. Apply the Machine learning algorithms on IOT problems.	Apply
CO3	3. Analyse and Apply ML Applications to Computer Vision	Analyse
CO4	4. Apply ML Applications to Sentiment Analysis	Apply
CO5	5. Analyse the use of ML in applications like Bots	Analyse

Course Code	BTCS707	
Course Name	Specialized Track Elective III - Vulnerability & Risk Management	
	CO	**BT**
CO1	Understand risk and vulnerability in the context of energy production, environmental disaster to commercial management projects.	Understand

CO2	Analyse risk assessment and mitigation strategies in specific situations.	Analyze
CO3	Understand risk transference and vulnerability driven management decisions.	Understand
CO4	Implement and monitor appropriate management techniques relevant to specific situations.	Apply
CO5	Understand the shortfalls of many vulnerability assessment programs	Understand

Course Code	BTCS708	
Course Name	Specialized Track Elective-III - Digital forensic, investigation and	
	CO	**BT**
CO1	Acquire knowledge of various digital forensic tools	Understand
CO2	Interpret security issues in the Information Communication Technology (ICT) world, and apply digital forensic tools for security and investigations	Understand
CO3	Achieve adequate perspectives of digital forensic investigation in various applications /devices like Windows/Unix system, mobile, email etc	Apply
CO4	Generate legal evidence and supporting investigation reports.	Create

Course Code	BTCS704	
Course Name	Specialized Track Elective-II - Fundamentals of Robotics &	
	CO	**BT**
CO1	Acquiring the basics knowledge robotics .	Remember
CO2	Provide a brief understanding of drive systems and end effectors	Understand
CO3	Acquire knowledge about sensors and machine	Understand
CO4	Provide practical experience in robotic programming	Apply
CO5	Analyse the process for creating bot.	Analyse

Course Code	BTCS706	
Course Name	Specialized Track Elective -II - Industry 4.0 and Application Areas	
	CO	**BT**
CO1	Understand the basic concepts of Industry 4.0	Remember
CO2	Learn Design thinking principles and its usage.	Understand
CO3	Develop the skills to use Visualization software	Apply
CO4	Understand how industry 4.0 works and product development.	Understand
CO5	Understand a deep insight into how intelligent processes, big data, and artificial intelligence can be used to build up the production of the future	Apply

Course Code	BTCS701A
Course Name	Service Oriented Architecture

	CO	BT
CO1	Able to design, develop and test Web services.	Analyse
CO2	Learn standards related to Web services: Web Services Description Language (WSDL), Simple Object Access Protocol (SOAP), and Universal Description, Discovery and Integration (UDDI).	Understand
CO3	Conceptually model Web services and formulate specifications of them in the Resource Description Framework (RDF) and the Web Ontology Language (OWL).	Create
CO4	Learn approaches to compose services	Remember
CO5	Evaluate emerging and proposed standards for the main components of Web services architectures.	Analyse

Course Code	BTCS701B
Course Name	Compiler Construction

	CO	BT
CO1	Identify appropriate optimization technique for compilation process	Understand
CO2	Apply automata theory and knowledge on formal languages	Apply
CO3	Apply language theory concepts to various phases of compiler design	Apply
CO4	Understand backend of compiler: intermediate code, Code optimization	Understand
CO5	Techniques and Error Recovery mechanisms	Create

Course Code	BTCS701C
Course Name	Distributed Computing Systems

	CO	BT
CO1	Understand the fundamental concepts and principles of distributed systems	Understand
CO2	Apply various distributed algorithms related to clock synchronization, con currency control, deadlock detection, load balancing, voting etc.	Apply
CO3	Analyze fault tolerance and recovery in distributed systems and algorithms for the same.	Analyze
CO4	Analyze the design and functioning of existing distributed systems and file systems	Analyze
CO5	Devlop different distributed algorithms over current distributed plat forms	create

Course Code	BTCS701D
Course Name	Soft Computing

	CO	BT
CO1	Apply various soft computing concepts for practical applications.	Apply

CO2	Use fuzzy rules and reasoning to develop decision making and an expert system	Understand
CO3	Apply fuzzy logic and reasoning to handle uncertainty and solve engineering problems, genetic algorithms to combinatorial optimization problems and neural networks to pattern classification and regression problems.	Apply
CO4	Explain the importance of optimization techniques and genetic programming.	Understand
CO5	Review the various hybrid soft computing techniques and apply in real time problems	Analyse

Course Code	BTCS701E	
Course Name	Computer Vision	
	CO	**BT**
CO1	To implement fundamental image processing techniques required for computer vision	Apply
CO2	To Implement the shape Analysis	Apply
CO3	To develop applications using computer vision techniques	Create
CO4	Extract features form Images and do analysis of Images	Create
CO5	Understand video processing, motion computation and 3D vision and geometry	Understand