

**CSMSS**

Chhatrapati Shahu Maharaj Shikshan Sanstha's

**CHH. SHAHU COLLEGE OF ENGINEERING**

Kanchanwadi, Paithan Road, Chh. Sambhajnagar 431 011

Ph. No.: (0240) 2646373, 9922668199, 2646350 Fax: (0240) 2646222

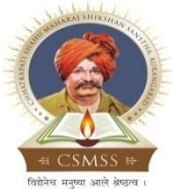
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

A.Y.	Semester	Code of Subject	Name of Course	Co No.	Course Outcome
2023 -24	III	BTBS301	Engineering Mathematics – III	1	Student will be able to describe the concept of Laplace transform
				2	Student will be able to apply the concept of LT and ILT to solve differential equations
				3	Student will be able to solve problems related to Fourier Transform to Deep Learning, Signal & Image Processing
				4	Student will be able to apply the concepts of PDE in Engineering Concepts
				5	Student will be able to analyze Function of Complex Variables.
		BTCOC302	Discrete Mathematics	1	Students will be able to construct logical expressions using propositional and predicate logic.
				2	Students will be able to solve combinatorial problems using recurrence relations and generating functions while defining and differentiating between injective, surjective, and bijective functions.
				3	Students will be able to apply graph theory concepts to solve problems related to paths, circuits, and graph coloring.
				4	Student will be able to implement algorithms to determine minimal spanning trees in various contexts
				5	Student will be able to simplify and manipulate algebraic structures using group and Boolean algebra principles.
		BTCOC303	Data Structures	1	Student will be able to determine representation and storage mechanisms of data structures
				2	Student will be able to describe basic fundamentals of data structures like array, skip list, linked list, stack, queue, tree, graph, hashing and their application
				3	Student will be able to illustrate operations like searching, insertion, deletion, traversing mechanism etc. on linked list data structures
				4	Student will be able to illustrate operations like searching, insertion, deletion, traversing mechanism etc. on trees and graph data structures
				5	Student will be able to determine appropriate sorting and searching technique for given problem
		BTCOC304	Computer Architecture & Organization	1	Student will be able to identify functional units of a digital computer system.
				2	Student will be able to explain the basics of instructions sets, addressing modes & assembly language structure



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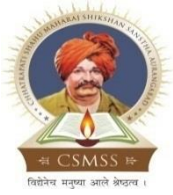
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			3	Student will be able to manipulate representations of numbers stored in digital computers
			4	Student will be able to determine various types of memories and its organization
			5	Student will be able to describe basics of hardwired, pipelined architectures, I/O organization, DMA and develop micro-operation using micro-programmed control unit
	BTCOC305	Elective –I  (b) Object Oriented Programming in Java	1	Student will be able to discuss the fundamental concepts of Java programming language, including classes, objects, methods and the memory concepts.
			2	Student will be able to illustrate the use of control structures, methods, and Java API packages developing comprehensive Java programs.
			3	Student will be able to demonstrate the Java array concepts and the skills to develop Java applications
			4	Student will be able to use the concept of Object-Oriented Programming (OOP) concepts with a focus on inheritance, polymorphism, and interface in Java programming
			5	Student will be able to apply the exception handling techniques in Java and client-side scripting with JavaScript to develop high-quality web applications.
	BTCOL306	Data Structures Lab & Object Oriented Programming Lab	1	Student will be able to determine the time and space efficiency of the data structure
			2	Student will be able to identify the appropriate data structure for given problem
			3	Student will be able to practice stack, Queue and their applications
			4	Student will be able to develop various types of linked lists and their applications
			5	Student will be able to develop sorting and searching algorithms
			1	Student will be able analyze and implement the basics of object-oriented programming using java
			2	Student will be able identify and apply the concept of classes, Java, JDK components and develop simple java programs
			3	Student will be able to design simple java programs using inheritance and exception handling
			4	Student will be able design programming on interfaces
			5	Student will be able implement programs on dealing with arrays.



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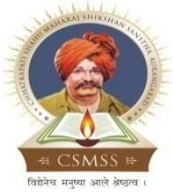
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IV	BTCOS307	Seminar-I	1	Student will be able to Survey a latest research papers of professional interest to understand new fields in the absence of a textbook, and synthesize summaries and reviews.
			2	Student will be able to evaluate and identify promising new directions in various cutting-edge technologies
			3	Student will be able to Enhance technical writing skills in preparing detailed reports describing results
			4	Student will be able to effectively Communicate with professional technical presentation skills by making oral presentations.
	BTCOC401	Design & Analysis of Algorithms	1	Students will be able to explain the concept of algorithm writing and its performance analysis
			2	Students will be able to use divide and conquer algorithm designing technique for algorithm writing.
			3	Students will be able to demonstrate the Backtracking and Branch and Bound concepts for designing algorithms
			4	Student will be able to apply the process of greedy technique to solve a variety of optimization problems
			5	Student will be able to know various problem categories based on their complexity and to Apply dynamic programming approach for solving variety of complex problems.
	BTCOC402	Operating Systems	1	Student will be able to describe functional architecture of an operating system
			2	Student will be able to determine processes and CPU scheduling
			3	Student will be able to describe synchronization techniques to achieve better performance of a computer system
			4	Student will be able to apply segmentation and paging techniques
			5	Student will be able to explain file system working
	BTHM403	Basic Human Rights	1	Student will be able to explain the basic concepts of human rights and its origin
			2	Student will be able to describe the fundamental rights and social problems in society
3			Student will be able to explore the concept of migrant workers, human rights violations, and various issues:	
4			Student will be able to acquire in-depth knowledge of the Constitution of India	
5			Student will be able to explore UDHR (Universal Declaration of Human Rights) and NHRC (National Human Rights Commission	



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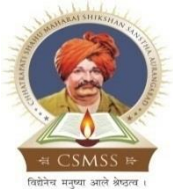
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	BTBSC404	Probability and Statistics	1	Students will be able to apply fundamental concepts of probability, Bayes' theorem, and standard probability distributions to describe real-life phenomena
			2	Students will be able to utilize the basic concepts of probability distributions and random variables to solve engineering problems.
			3	Students will be able to apply the concepts of correlation and their applications in engineering disciplines.
			4	Students will be able to interpret the concepts of linear regression, including regression lines and coefficients, in practical scenarios.
			5	Students will be able to apply estimation techniques and hypothesis testing to draw conclusions and assess errors in statistical analyses
	BTES405	DLD&M	1	Student will able to convert different type of codes and number systems which are used in digital communication and computer systems. Familiar with basic gates. Understand Boolean algebra and basic properties of Boolean algebra.
			2	Students will be able to illustrate simple logic using Karnaugh maps, understand "don't care". Familiar with combinational digital circuit.
			3	Students will be able to develop sequential logic components: SR Latch, D Flip-Flop and their usage and able to analyze sequential logic circuits.
			4	Students will be able to describe internal architecture of 8086 microprocessor with memory segmentation
			5	Students will be able to write 8086 instruction set and addressing modes and explain Interrupts, memory and I/O interfacing in 8086
	BTCOL406	Operating Systems & Python Programming Lab	1	Students will be able to compare the performance of various CPU Scheduling Algorithms
			2	Students will be able to solve Deadlock avoidance and Detection Algorithms.
			3	Students will be able to develop processes and IPC.
			4	Students will be able to analyze the performance of the various Page Replacement Algorithms.
			1	Students will be able to analyze the fundamental python syntax and semantics and be fluent in the use of python control flow statements.
2			Students will be able to design proficiency in the handling of strings and functions.	



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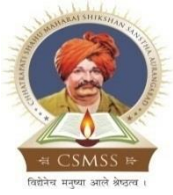
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				3	Students will be able to implement the methods to create and manipulate python programs by utilizing the data structures like lists, dictionaries, tuples and sets.
				4	Students will be able to analyze how to design object? oriented programs with python class
				5	Students will be able to identify and perform how to use exception handling in python applications for error handling
		BTCOS407	Seminar – II	1	Student will be able to survey a latest research papers of professional interest to understand new fields in the absence of a textbook, and synthesize summaries and reviews.
				2	Student will be able to evaluate and identify promising new directions in various cutting-edge technologies
				3	Student will be able to enhance technical writing skills in preparing detailed reports describing results
	4			Student will be able to effectively communicate with professional technical presentation skills by making oral presentations.	
	V	BTCOC501	Database Systems	1	Students will able to list and describe the key components of a database management system (DBMS).Create simple ER diagrams for given database application scenarios.
				2	Students will able to "Define and describe the key elements of an RDBMS, including tables, rows, columns, primary keys, and foreign keys. Use relational algebra operations to perform basic queries on a relational database schema.
				3	Students will able to write SQL queries to retrieve and manipulate data from a relational database for given business scenarios. Write code snippets in a chosen programming language to connect to a database, execute queries, and process the results.
				4	Students will able to define and describe the different normal forms (1NF, 2NF, 3NF, BCNF, etc.) used in database normalization. Demonstrate how to apply the rules of normalization to a database schema to transform it into higher normal forms. Explain how file and page organizations work in databases, and describe the principles behind indexing methods like B-trees and hashing.
				5	Students will able to define key concepts related to transaction processing, such as ACID properties (Atomicity, Consistency, Isolation, Durability), and basic





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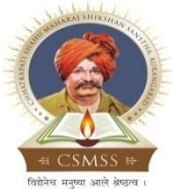
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					concurrency control mechanisms. Explain how transaction processing ensures data integrity and consistency, and describe the role of concurrency control in managing simultaneous database access.
		BTCOC502	Theory of Computation	1	Student will be able to design Finite Automata (FA) machines and generate a language and RE for given FA
				2	Student will be able to understand the rules and simplification of context free grammars
				3	Student will be able to produce the strings of a given context-free languages using its grammar
				4	Student will be able to outline Pushdown Automata machine for given CF language(s)
				5	Student will be able to design Turing machines for given any computational problem
		BTCOC503	Software Engineering	1	Student will be able to differentiate the given project in various phases of software lifecycle.
				2	Student will be able to describe Agile Methodology
				3	Student will be able to illustrate various types of System Modelling
				4	Student will be able to apply System Patterns in various scenarios
				5	Student will be able to explain software testing concepts
		BTCOE504	Elective – II (A) Human computer Interaction	1	Student will be able to explain the Interaction Process between Human & Computer
				2	Student will be able to describe the Fundamentals of Design Process in HCI
				3	Student will be able to discover the Concept of Implementation & Evaluation In HCI Process
				4	Student will be able to explain in Depth Knowledge of the Models & Systems in HCI Process
				5	Student will be able to analyse Modern Systems in HCI process
		BTHM505	Elective – III (B) Business Communication	1	Students will be able to explain the need and importance of business communication
				2	Students will be able to discuss intercultural, interpersonal and ethical communication aspects to make business communication effective
				3	Students will be able to use non-verbal communication codes, various communication styles and avoid communication barriers while interaction
				4	Student will be able to demonstrate group communication and negotiation tactics required to make business deals successful.



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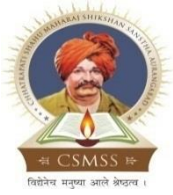
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	BTCOL506	Database Systems & Software Engineering Lab	5	Student will be able to describe the leadership styles, business writing skills and skills adapting a new culture	
			1	Students able to design Schema for any real time applications.	
			2	Students able to apply SQL queries for CRUD operation	
			3	Students able to write subqueries, join operation and set operation using SQL	
			4	Students able to design given relation using Normalization.	
			5	Students able to manipulate Transactions using SQL	
			1	Student will be able to discuss how to develop software requirements specifications for a given problem.	
			2	Student will be able to explain DFD models	
			3	Student will be able to construct Use case diagram	
			4	Student will be able to construct various structure and behavior UML diagrams.	
	5	Student will be able to illustrate implementation and environmental view diagram and testing tools			
	BTCOM507	Mini-project – I	1	Student will be able to identify complex problems, define project objectives, and scope effectively, developing the skills needed to recognize and address industry-specific challenges and issues.	
			2	Student will be able to perform a comprehensive literature survey, critically evaluate sources, synthesize information, and contribute to knowledge in a specific field	
			3	Student will be able to analyze intricate problems by conducting a comprehensive review of the current state of the art and then formulate practical and feasible solutions.	
			4	Student will be able to create well-structured reports using elements of technical writing, engage in critical thinking to present information clearly and logically, and deliver compelling and well-organized presentations.	
	VI	BTCOC601	Compiler Design	1	Student will be able to analyze and be able to know the various phase of compiler.
				2	Student will be able to design and implement a lexical analyzer.
				3	Student will be able to design and implement a parser.
				4	Student will be able to know about Intermediate code generation and syntax directed translation
				5	Student will be able to optimize and design code generator.



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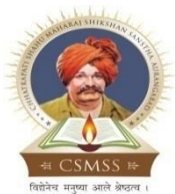
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	BTCOC602	Computer Networks	1	Student will be able to analyze the functioning of data communication and computer network
			2	Student will be able to understand different types of LAN technologies
			3	Student will be able to analyze the transmission errors in the data link layer
			4	Student will be able to analyze the network layer and congestion control
			5	Student will be able to configure different application protocols and analyze network security
	BTCOC603	Machine Learning	1	Students will implement machine learning algorithms to real-world problems, demonstrating proficiency in learning paradigms, evaluation methods, and model optimization and deployment.
			2	Students will be able to solve Probability and Bayesian learning problem, and implement Logistic Regression and SVM, including the use of Kernel functions
			3	Students will be implementing Perceptron, multilayer networks, backpropagation, and an introduction to deep neural networks
			4	Students will be implementing computational learning theory, PAC learning model, sample complexity, VC dimension, and ensemble learning
			5	Students will be implementing clustering techniques such as k-means, adaptive hierarchical clustering, and Gaussian mixture models.
	BTCOE604	Elective – IV (A) Geographic Information System	1	Student will be able to describe GIS, name major GIS software available, know where to find more information.
			2	Student will be able to explain the components and functionality of a GIS and the difference between GIS and other information systems.
			3	Student will be able to discuss the nature of geographic information and explain in how it is stored in computer and the two types of GIS data structure.
			4	Student will be able to discover simple spatial analysis using GIS software.
			5	Student will be able to illustrate design and complete a GIS project from start to finish.
BTHM605	Elective – V (A) Development Engineering	1	Student will be able to describe basic concepts in Development Engineering	
		2	Student will be able to explain World Poverty and Sustainable Development	
		3	Student will be able to explain the role of Social Justice in Religious & Secular Perspectives	





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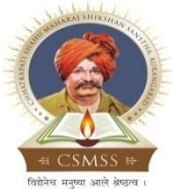
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			4	Student will be able to discover various Development Strategies in Development Engineering
			5	Student will be able to explain in depth Knowledge of Engineering for Sustainable Community Development & use of ICT for Development Engineering
	BTCOL606	Competitive Programming & Machine Learning Lab	1	Student will be able to read and examine the real-world dataset
			2	Student will be able to apply Machine Learning techniques of Regression, Classification, and Clustering
			3	Student will be able to analyze the results of Machine Learning techniques
			4	Student will be able to predict answers for given values from learned models or techniques
			1	Student will be able to discuss the concepts of online Judges, feedback and the standard input output to solve the programming challenges.
			2	Student will be able to develop the advanced programs of Arrays, Linked list, Strings, Dynamic Programming, Greedy method, Graph Algorithm etc. on Hackerrank, Codechef websites
			3	Student will be able to analyze the guidelines for designing the test cases for the programs.
			4	Student will be able to practice in the programming challenges in competitive platforms like codechef.com, uva.onlinejudge.com. organization like TCS, INFOSYS.
			5	Student will be able to practice the challenging problems to succeed in the programming challenges of reputed recruiting
			BTCOM607	Mini-project – II
	2	Student will be able to perform a comprehensive literature survey, critically evaluate sources, synthesize information, and contribute to knowledge in a specific field		
	3	Student will be able to analyze intricate problems by conducting a comprehensive review of the current state of the art and then formulate practical and feasible solutions.		
	4	Student will be able to create well-structured reports using elements of technical writing, engage in critical thinking to present information clearly and logically, and deliver compelling and well-organized presentations.		



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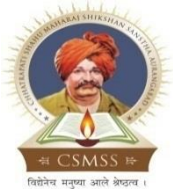
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VII	BTCOC701	Artificial Intelligence	1	Student will be able to explain the basic concepts of artificial intelligence and the significance of intelligent systems
			2	Student will be able to describe the various search based techniques to design intelligent systems.
			3	Student will be able to demonstrate various knowledge representation techniques and the application of resolution method to derive conclusions from a set of logical statements.
			4	Student will be able to discuss the probabilistic reasoning concepts useful for designing systems taking actions in uncertain situations.
			5	Student will be able to know how the systems with learning abilities are designed.
	BTCOC702	Cloud Computing	1	Students will be able to interpret the concept of virtualization and how this has enabled the development of cloud computing
			2	Students will be able to illustrate the fundamentals of cloud, cloud architectures and types of services in cloud
			3	Students will be able to examine scaling, cloud security and disaster management
			4	Students will be able to analyse different applications in cloud
			5	Students will be able to summarize some important cloud computing driven commercial systems
	BTCOE703	Elective – VI (C) Big Data Analytics	1	Student will be able to illustrate and develop the basics of big data structures, Characteristics of big data, distribution packages.
			2	Student will be able to discover the knowledge of big data analytics and implement different file management task in Hadoop.
			3	Student will be able to describe Map Reduce Paradigm and develop data applications using variety of systems.
			4	Student will be able to analyze and examine different operations on data using Pig Latin scripts.
			5	Student will be able to illustrate and apply different operations on relations and databases using Hive.
	BTCOE704 (C)	Open Elective – VII (C) Block chain Technology	1	Student will be able to identify the structure of a blockchain and Learn about Bitcoin, Cryptocurrency, Security
			2	Student will be able to explain the individual components of the Bitcoin, the peer-to-peer network, Consensus and PoW



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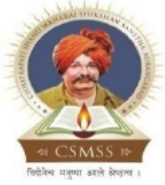
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			3	Student will be able to identify Permissioned Blockchain and different Consensus mechanism
			4	Student will be able to identify Enterprise application of Blockchain
			5	Student will be able to explain the architecture of Hyperledger Fabric, including its modular design, permissioned nature, and the concept of channels for data privacy along with Ripple and Corda
	BTCOE705 (B)	Open Elective – VIII (A) (B) Deep Learning (C)	1	Students will be able to describe what is involved in deep learning models from data.
			2	Student will be able to illustrate a wide variety of learning optimization and activation algorithms.
			3	Student will be able to apply how to preprocess and evaluate models generated from data.
			4	Students will be able to analyze models to solve real problems, optimize the learned models, and assess the expected accuracy of the models
			5	Student will be able to analyze and evaluate advanced deep machine learning algorithms.
	BTCOL707	Artificial Intelligence & Cloud Computing Lab	1	Students will be able to apply the predicate logic to design reasoning based programs using Prolog.
			2	Students will be able implement constraint-based solutions using Prolog.
			3	Students will be able to design program using heuristic-based search strategies.
			4	Students will be able to demonstrate the use of state space and heuristic evaluation in the context of puzzles.
			5	Students will be able to know how to use planning and means-end analysis problem-solving strategies in Prolog
			1	Students will be able to illustrate the basic concepts of cloud computing
			2	Students will be able to create a virtual machine and perform virtualization.
			3	Students will be able to utilize Moodle to develop a warehouse application in Salesforce
			4	Students will be able to implement a scenario in WordPress
			5	Students will be able to analyze the architecture of Aneka and execute a scenario.
			6	Students will be able to evaluate and analyze the use of Planio.
	BTCOS708	Project Phase – I	1	Student will be able to solve real-life problems by applying knowledge.



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VIII	BTCOF801	Project phase – II (In-house) / Internship and Project in Industry	2	Student will be able to implement alternative approaches, apply and use the most appropriate one for a feasible solution.
			3	Student will be able to write precise reports and technical documents concisely.
			4	Student will be able to participate effectively in multi-disciplinary and heterogeneous teams, exhibiting teamwork, interpersonal relationships, conflict management, and leadership qualities.
	BTCOF801	Project phase – II (In-house) / Internship and Project in Industry	1	Student will be able to engage in self-directed research to gather and synthesize relevant information
			2	Student will be able to assess the validity and significance of findings, providing a thorough analysis and interpretation
			3	Student will be able to structure and communicate research outcomes clearly, identifying and discussing unresolved issues
			4	Student will be able to connect existing methodologies and results with ongoing and prospective research efforts
			5	Student will be able to appreciate and articulate the real-world applications and constraints of the research area



  
Dr. Y. H. Bhosale  
Head of Department