



Yashoda Technical Campus, Satara

(Approved by AICTE, Delhi/Approved by Govt of Maharashtra DTE) Email: principalengg_vtc@yes.edu.in

Web : www.yes.edu.in NH-4, wadhe, Satara, Tele Fax-02162-271238/39/9172220775



Faculty of Engineering

Department of Computer Science and Engineering

COURSE OUTCOMES

SECOND YEAR B.TECH

Course Outcomes (CO's): Engineering Mathematics-III	
Upon successful completion of this course, the students will be able to	
BTBS301_1	Apply the various techniques of Laplace transform to find the solutions of special, periodic & Heaviside's functions.
BTBS301_2	Apply the Inverse Laplace transform to applications of higher order linear differential equation using appropriate techniques.
BTBS301_3	Compute the Fourier transform of various functions and their applications to engineering problems.
BTBS301_4	Obtain Interpolating polynomials, numerically differentiate and integrate functions, numerical solutions of differential equations using single step and multi-step iterative methods used in modern scientific computing.
BTBS301_5	Analyze conformal mappings, transformations and perform contour integration of complex functions in the study of signal processing.

Course Outcomes (CO's): Discrete Mathematics	
Upon successful completion of this course, the students will be able to	
BTCOC302_1	To understand propositional logic and operations on set, functions, relation, graph tree, algebraic systems
BTCOC302_2	To solve problems using operations on sets, functions, relations, counting techniques and generating function.
BTCOC302_3	Apply various algorithms and use of graphs, trees as tools to visualize and solve problems..
BTCOC302_4	Summarize various properties of algebraic systems using one or two operations, boolean algebra.

Course Outcomes (CO's): Data Structure	
Upon successful completion of this course, the students will be able to	
BTCOC303_1	Define data structures like array, stack, queues and linked list.

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BTCOC303_2	Explain insertion, deletion and traversing operations on data structures and identify the asymptotic notations to find the complexity of an algorithm.
BTCOC303_3	Analyze various searching and sorting techniques
BTCOC303_4	Choose appropriate data structure while designing the algorithms and Design advance data structures

Course Outcomes (CO's): Computer Architecture & Organization

Upon successful completion of this course, the students will be able to

BTCOC304_1	Discuss the basic concepts and structure of computers.
BTCOC 304_2	Understand concepts of register transfer logic and Instruction set
BTCOC 304_3	Discuss Computer Arithmetic and understand arithmetic coprocessor
BTCOC 304_4	Explain different types of addressing modes and memory organization.
BTCOC 304_5	Discuss the Control Unit and Input / Output Organization

Course Outcomes (CO's): Object Oriented Programming in Java

Upon successful completion of this course, the students will be able to

BTCOC305_1	Understand use the syntax and semantics of java programming language and basic concept of OOP
BTCOC305_2	Develop reusable programs using the concept of inheritance, polymorphism interfaces and Packages.
BTCOC305_3	Apply the concepts of exception handling to develop efficient and error free code.
BTCOC305_4	Design web related applications using JAVA scripts and JAVA

Course Outcomes (CO's): Data Structure & Object Oriented Programming in Java Lab

Upon successful completion of this course, the students will be able to

BTCOL306_1	implement various data structures like stack, queue, tree and Linked List
BTCOL306_2	Implement different graph traversal, searching and sorting techniques.

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BTCOL306_3	Learn To implement Object Oriented Programs with JAVA and to extend JAVA classes with OOP principles
BTCOL306_4	Learn to use exception handling, creation of user interface and packages in JAVA applications and to Implement Java scripts programs

Course Outcomes (CO's): Seminar-I

Upon successful completion of this course, the students will be able to

BTCOS307_1	Identify and Analyze recent topics of any domain
BTCOS307_2	Enhance technical writing skills
BTCOS307_3	Identify an engineering problem, analyze it and propose a work plan to solve it.
BTCOS307_4	Communicate with professional technical presentation skills and Apply modern documentation tools to write the report

Course Outcomes (CO's): Field Training/Industrial Training

Upon successful completion of this course, the students will be able to

BTES211P_1	Demonstrate competency in relevant field of engineering.
BTES211P_2	Demonstrate knowledge with ethical and professional responsibilities.
BTES211P_3	Apply appropriate techniques, resources and modern tools.
BTES211P_4	Communicate effectively and represent the processes in the industry.

Course Outcomes (CO's): Design & Analysis of Algorithms

Upon successful completion of this course, the students will be able to

BTCOC401_1	Understand the basic terminologies of algorithms & flowchart, Analyze the time complexity of a given algorithm
BTCOC401_2	Identify appropriate data structure as applied to specific problem domain and examine computational complexities

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BTCOC401_3	Decide the appropriate design methodology for a given problem from among the paradigms of Divide & Conquer, Dynamic Programming, Greedy and Backtracking.
BTCOC401_4	Distinguish between P and NP classes of problems

Course Outcomes (CO's): Operating Systems

Upon successful completion of this course, the students will be able to

BTCOC402_1	Demonstrate various basic concepts related to OS
BTCOC402_2	Implement various CPU scheduling algorithm
BTCOC402_3	Describe the concepts of process synchronisation and deadlock
BTCOC402_4	Distinguish between various memory management schemes, implement various page replacement algorithm
BTCOC402_5	Demonstrate I/O management and file system and implement disk scheduling algorithms.

Course Outcomes (CO's): Basic Human Rights

Upon successful completion of this course, the students will be able to

BTHM403.1	Identify and evaluate the historical, philosophical, political and cultural developments establishing human rights as a set of global norms, agreements and procedures.
BTHM403.2	Explore global human right institutions, law, and processes and assess the impact of their interaction with national and local cultural practices and norms
BTHM403.3	Critically examine the impact of diverse geographic cultural and theoretical contexts on the social acceptance and practical application of human rights norms

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BTHM403.4	Synthesize interdisciplinary approaches and contributions to topics such as gender, race, poverty, violence and post colonialism within a human rights
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Course Outcomes (CO's): Probability Theory & Random Process

Upon successful completion of this course, the students will be able to

BTBSC404.1	Understand the fundamental knowledge of the concepts of the probability
BTBSC404.2	Understand the basic concepts of one and two dimensional random variables.
BTBSC404.3	Apply the concept of random process in engineering decision
BTBSC404.4	Apply the concept of correlation and spectral densities

Course Outcomes (CO's): Digital Logic Design & Microprocessor

Upon successful completion of this course, the students will be able to

BTES405_1	Contribute combinational logic circuits, Simplification of algebraic equations using Karnaugh maps.
BTES405_2	Illustrate Synchronous and Asynchronous Sequential Equation.
BTES405_3	Acquire the knowledge of fundamentals of microprocessor and microcontrollers architecture.
BTES405_4	Apply Knowledge and demonstrate programming proficiency using the various addressing modes of data transfer instructions.

Course Outcomes (CO's): Operating System & Python Lab

Upon successful completion of this course, the students will be able to

BTCOL406_1	Demonstrate UNIX command and implement shell scripts
BTCOL406_2	Implementation: on CPU scheduling algorithms, page replacement algorithms, Disk Scheduling algorithms and concepts based on threads and process.
BTCOL406_3	To develop the programming skills in core Python.

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BTCOL406_4	To Implement Object Oriented Skills in Python
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Course Outcomes (CO's): Seminar-II

Upon successful completion of this course, the students will be able to

BTCOS407_1	Identify and Analyze recent topics of any domain
BTCOS407_2	Enhance technical writing skills
BTCOS407_3	Identify an engineering problem, analyze it and propose a work plan to solve it.
BTCOS407_4	Communicate with professional technical presentation skills and Apply modern documentation tools to write the report

THIRD YEAR B.TECH

Course Outcomes (CO's): Database Systems

Upon successful completion of this course, the students will be able to

BTCOC501_1	Illustrate the concept of Database Management System.
BTCOC501_2	Explain Entity Relationship Diagrams apply the SQL, Relational Algebra and Relational Calculus queries.
BTCOC501_3	Illustrate concept of functional dependencies and determine normalization.
BTCOC501_4	Explain and Elaborate the concept of Transaction Processing, Concurrency control and Failure Recovery.

Course Outcomes (CO's): Theory of Computation

Upon successful completion of this course, the students will be able to

BTCOC502_1	Outline the fundamental concepts in automata theory and formal languages
BTCOC502_2	Explain context-free grammars, properties of languages, grammars and automata with rigorously formal mathematical method.
BTCOC502_3	Differentiate and manipulate formal descriptions of push down automata, its applications and transducer machines

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BTCOC502_4	Illustrate the basic properties of Turing machines and computing the tractability and decidability with Turing machine.
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Course Outcomes (CO's): Software Engineering

Upon successful completion of this course, the students will be able to

BTCOC503_1	Able to define software engineering process and practices, and demonstrate various process models
BTCOC503_2	Able to identify different types of risks in software development
BTCOC503_3	Able to distinguish different testing strategies and it's working
BTCOC503_4	Able to Estimate the quality of software process & develop SRS document for project.

Course Outcomes (CO's): Human Computer Interaction

Upon successful completion of this course, the students will be able to

BTCOE504A_1	Acquire fundamental concepts of computer components functions regarding interaction with human and vice versa.
BTCOE504A_2	Analyze interface problems to recognize what design approach and interaction styles is required in the light of usability standards and guidelines.

BTCOE504A_3	Apply basic concepts to construct a user-interaction strategy for a given problem its usability evaluation functional deploying, effectual technologies in a range of circumstance and to meet desired needs within realistic world.
BTCOE504A_4	Ability to design and develop an interface by using appropriate HCI techniques that are preferred by the user

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Course Outcomes (CO's): Business Communication

Upon successful completion of this course, the students will be able to

BTCOE505B_1	Develop concept of communication and speaking skills.
BTCOE505B_2	Develop the ways to improve personality, soft skills and organizational skills.
BTCOE505B_3	Develop the thinking ability and expression improvement in group discussion.
BTCOE505B_4	Design the effective resume as per industry requirement and be ready for personal interview through mock interviews and has knowledge of various interviews.

Course Outcomes (CO's): Database System & Software Engg. Lab

Upon successful completion of this course, the students will be able to

BTCOL506_1	Identify appropriate database schema for a given problem and design an E-R model for real world problem
BTCOL506_2	Implement a database, formulate queries using DDL, DML commands and various integrity constraints using SQL
BTCOL506_3	Discuss and Analyse how to develop software requirements specifications for a given problem.

BTCOL506_4	Understand and Describe basic concept of UML, design, implementation of test cases, DFD models, structure and behaviour UML diagrams.
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Course Outcomes (CO's): Mini Project-I

Upon successful completion of this course, the students will be able to

BTCOM507_1	Reorganize the procedures of design, development with a concern for society, environment and ethics
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BTCOM507_2	Apply modern software tools to implement the software solution of the problem
BTCOM507_3	Apply modern software tools to design test cases and perform testing of the implemented software solution and deploy the software solution after successful testing
BTCOM507_4	Communicate effectively by participating in various competitions, publishing and presenting project work through conference / journal paper

Course Outcomes (CO's): Field Training/Industrial Training

Upon successful completion of this course, the students will be able to

BTCOF408_1	Demonstrate competency in relevant field of engineering.
BTCOF408_2	Demonstrate knowledge with ethical and professional responsibilities.
BTCOF408_3	Apply appropriate techniques, resources and modern tools.
BTCOF408_4	Communicate effectively and represent the processes in the industry.

Course Outcomes (CO's): Compiler Design

Upon successful completion of this course, the students will be able to

BTCOC601_1	Describe phases of a compiler and role for generation of the Lexical analyser
BTCOC601_2	Understand algorithm for parser and parsing technique
BTCOC601_3	Construction of Syntax Trees Explain the concept of intermediate code generation technique
BTCOC601_4	Demonstrate code optimization technique and fundamental of runtime environment.

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Course Outcomes (CO's): Computer Networks

Upon successful completion of this course, the students will be able to

BTCOC602_1	To develop an understanding of modern network architectures from a design and performance perspective.
BTCOC602_2	Apply the most appropriate networking architecture and technologies for a given organizational structure
BTCOC602_3	To study protocols, network standards, the OSI model, IP addressing, cabling, networking components, and basic LAN design.
BTCOC602_4	Ability to write program using socket programming.

Course Outcomes (CO's): Machine Learning

Upon successful completion of this course, the students will be able to

BTCOC603_1	Identify the characteristics of machine learning, binary classification
BTCOC603_2	Solve classification problems using concept learning and multiclass classification
BTCOC603_3	Apply tree based and linear learning models to real world problems.
BTCOC603_4	Analyse Bayesian classifier, distance base classification and clustering algorithms.

Course Outcomes (CO's): Internet of Things

Upon successful completion of this course, the students will be able to

BTCOE604B_1	Understand the concepts of Internet of things and its architectures
BTCOE604B_2	Implement interfacing of various sensors, Actuators and smart objects with Arduino/Raspberry Pi.
BTCOE604B_3	Describe the role of Internet protocol and application level protocols in IOT
BTCOE604B_4	Identify the common challenges in IOT security

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BTCOE604B_5	Understand the tools and techniques used in Big data analytics for IOT
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Course Outcomes (CO's): Consumer Behaviour

Upon successful completion of this course, the students will be able to

BTHM605C_1	Identify the dynamics of human behaviour and the basic factors that influence the consumers decision process
BTHM605C_2	Explain skills in the research and analysis of customer segments, demand, and market potential.
BTHM605C_3	understand various models of consumer behaviour and its effect in marketing.
BTHM605C_4	Compare physiological, social and ethical implications of marketing actions on consumer behaviour and adopt appropriate techniques for diffusion.

Course Outcomes (CO's): Competitive Programming & Machine

Learning Lab

Upon successful completion of this course, the students will be able to

BTCOL606_1	Implement classification problems with decision trees, support vectors, Bayesian learning techniques
BTCOL606_2	Solve distance based supervised and unsupervised learning problems and Demonstrate Neural network, genetic algorithms
BTCOL606_3	Learn to implement various Programming Challenges by Choosing different Programming Languages and object-oriented concepts through programming
BTCOL606_4	Implement various searching and sorting Algorithms, Arithmetic and Algebra technique to solve real-world problems

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Course Outcomes (CO's): Mini Project-II

Upon successful completion of this course, the students will be able to

BTCOM607_1	Reorganize the procedures of design, development with a concern for society, environment and ethics
BTCOM607_2	Apply modern software tools to implement the software solution of the problem
BTCOM607_3	Apply modern software tools to design test cases and perform testing of the implemented software solution and deploy the software solution after successful testing
BTCOM607_4	Communicate effectively by participating in various competitions, publishing and presenting project work through conference / journal paper

FINAL YEAR B.TECH

Course Outcomes (CO's): Software Engineering

Upon successful completion of this course, the students will be able to

BTCOC701_1	Able to define software engineering process and practices, and demonstrate various process models
BTCOC701_2	Able to identify different types of risks in software development
BTCOC701_3	Able to distinguish different testing strategies and it's working
BTCOC701_4	Able to Estimate the quality of software process & develop SRS document for project.

Course Outcomes (CO's): Big Data Analytics

Upon successful completion of this course, the students will be able to

BTCOE702A_1	Understand the basic concepts of Big Data Hadoop, Apache Spark & File system.
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BTCOE702A_2	Apply map reduce concepts for desired applications.
BTCOE702A_3	Learn the different big data streaming platforms.
BTCOE702A_4	Understand the Machine learning algorithms & visualize the data.
BTCOE702A_5	To experiment with Database for the Modern Web

Course Outcomes (CO's): Natural Language Processing

Upon successful completion of this course, the students will be able to

BTCOE703C_1	Understand core concepts of Natural Language Processing and levels of language analysis
BTCOE703C_2	Application of Probabilistic model of defining language and techniques
BTCOE703C_3	Application of Hidden Markov model and Speech Recognition
BTCOE703C_4	Application of context free grammar and language parsing
BTCOE703C_5	Understanding different applications of Natural Language Processing

Course Outcomes (CO's): Block Chain Technology

Upon successful completion of this course, the students will be able to

BTCOE704A_1	Understand the basics of block chain technology & its features.
BTCOE704A_2	Summarize the basics of Cryptocurrency & how does it works.
BTCOE704A_3	Identify the modern currencies and its market usages
BTCOE704A_4	Illustrate the concepts of Bitcoin and their usage.

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Course Outcomes (CO's): Full Stack Development Lab

Upon successful completion of this course, the students will be able to

BTCOL705_1	Construct a basic website using HTML and Cascading Style Sheets.
BTCOL705_2	Build dynamic web page with validation using Java Script objects and by applying different event handling mechanisms.
BTCOL705_3	Construct simple web pages in PHP
BTCOL705_4	Understand the use of PHP as server side language and application of AJAX in web development.

Course Outcomes (CO's): System Administration Lab

Upon successful completion of this course, the students will be able to

BTCOL706_1	Illustrate the role and responsibilities of a Linux system administration.
BTCOL706_2	Make effective use of Linux utilities, and scripting languages.
BTCOL706_3	Detect the problem and troubleshoot them.
BTCOL706_4	Integrate network services on a Linux system

Course Outcomes (CO's): Big Data Analytics Lab

Upon successful completion of this course, the students will be able to

BTCOL707_1	Develop efficient algorithms for analyzing the data from large volumes.
BTCOL707_2	Configure Hadoop and perform File Management Tasks
BTCOL707_3	Apply MapReduce programs to real time issues like word count, weather dataset and matrix operation
BTCOL707_4	Develop Big Data applications Using spark, pig and Hive.

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Course Outcomes (CO's): Natural Language Processing Lab

Upon successful completion of this course, the students will be able to

BTCOL708C_1	To implement basic preprocessing of text
BTCOL708C_2	To implement techniques of word level analysis
BTCOL708C_3	To implement techniques of extracting information from text
BTCOL708C_4	To implement techniques of text analytics

Course Outcomes (CO's): Project Phase -I

Upon successful completion of this course, the students will be able to

BTCOL709_1	Solve real life problems by applying knowledge.
BTCOL709_2	Analyze alternative approaches, apply and use most appropriate one for feasible solution
BTCOL709_3	Write precise reports and technical documents .
BTCOL709_4	Participate effectively in multi-disciplinary and heterogeneous teams exhibiting team work .
BTCOL709_5	Establish Inter-personal relationships, conflict management and leadership quality

Course Outcomes (CO's): Field Training/Industrial Training

Upon successful completion of this course, the students will be able to

BTCOF609_1	Demonstrate competency in relevant field of engineering.
BTCOF609_2	Demonstrate knowledge with ethical and professional responsibilities.
BTCOF609_3	Apply appropriate techniques, resources and modern tools.
BTCOF609_4	Communicate effectively and represent the processes in the industry.

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Mission of department: 1. To create ambience of academic excellence through state of art infrastructure. 2. To create student-centric pedagogy that will lead to employability. 3. To create a software engineering professional with knowledge of multidisciplinary fields, can provide innovative products & service to society. 4. To train and motivate students for learning, employability, and entrepreneurship.



Yashoda Technical Campus, Satara

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Faculty of Engineering

Department of Computer Science and Engineering

Course Outcomes (CO's): Social Networks

Upon successful completion of this course, the students will be able to

BTCOE801B_1	Understand a broad range of network concepts and theories.
BTCOE801B_2	Analyse social network data using various software packages and social network techniques.
BTCOE801B_3	Apply the social networking concepts for solving realworld social network issues.
BTCOE801B_4	Apply Mining for behaviour of the users in the social network

Course Outcomes (CO's): Cryptography & Network Security

Upon successful completion of this course, the students will be able to

BTCOE802B_1	Understand the basics of information security & mathematical foundations needed for cryptography and network security
BTCOE802B_2	Explain and Compare various Cryptographic Techniques
BTCOE802B_3	Apply various Asymmetric Key Ciphers security techniques.
BTCOE802B_4	To compare Modern Trends in Asymmetric Key Cryptography
BTCOE802B_5	Design Secure applications and Inject secure coding in the developed applications and able to understand about the Intrusion, Viruses, firewalls and its configurations

Course Outcomes (CO's): Project Phase-II

Upon successful completion of this course, the students will be able to

BTCOE803_1	Reorganize the procedures of design, development with a concern for society, environment and ethics
BTCOE803_2	Apply modern software tools to implement the software solution of the problem

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Faculty of Engineering

Department of Computer Science and Engineering

BTCE803_3	Write precise reports and technical documents .
BTCE803_4	Apply modern software tools to design test cases and perform testing of the implemented software solution and deploy the software solution after successful testing
BTCE803_5	Apply Communication Knowledge effectively by participating in various competitions, publishing and presenting project work through conference / journal paper

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