



Yashoda Technical Campus, Satara

(Approved by AICTE, Delhi /Approved by Govt of Maharashtra DTE)

Email: principalengg_ytc@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

Academic Year 2023-24

Semester –VI (Third Year)

Structure of Course

Course Category	Course Code	Course Title	Weekly Teaching Hrs			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
	BTCOC601	Compiler Design	3	1	-	20	20	60	100	4
	BTCOC602	Computer Networks	3	1	-	20	20	60	100	4
	BTCOC603	Machine Learning	3	1	-	20	20	60	100	4
	BTCOE604	Elective – IV (A) Geographic Information System (B) Internet of Things (C) Embedded Systems	3	-	-	20	20	60	100	3
	BTHM605	Elective – V (A) Development Engineering (B) Employability and Skill Development (C) Consumer Behaviour	3	-	-	20	20	60	100	3
	BTCOL606	Competitive Programming & Machine Learning Lab	1*	-	4	60	-	40	100	3
	BTCOM607	Mini-project – II	-	-	4	60	-	40	100	2
	BTCOF608	Field Training / Internship / Industrial Training	-	-	-	-	-	-	-	Audit to be Evaluated in VII Sem.
TOTAL			16	3	8	220	100	380	700	23

***Note:** Lecture should be conducted only for Competitive Programming

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COs	Compiler Design (BTCOC601)
BTCOC601_1	Design phases of a compiler and role , generator of the Lexical analyser
BTCOC601_2	Design 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.

CO to PO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTCOC601_1	3												3	3
BTCOC601_2	3	3	2	2									2	2
BTCOC601_3	3	3	2											3
BTCOC601_4	3	3	2	2										3
AVG	3	3	2	2									2.5	2.75

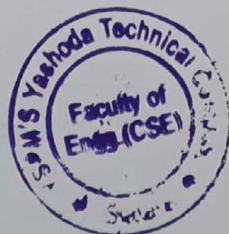
Correlation level 1,2,3 as defined below:

1 – Slight

2 – Moderate

3 – High

Course Coordinator



HOD

H.O.U.

Computer Science & Engg.

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COs	Computer Networks (BTCOC602)
BTCOC602_1	To understanding of modern network architectures from a design and performance perspective.
BTCOC602_2	Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies.
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.

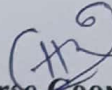
CO to PO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTCOC602_1	2		1	1			1			1			2	
BTCOC602_2	2		1	1	1									3
BTCOC602_3	2		1	1						2				
BTCOC602_4			1	1						2				3
AVG	2		1	1	1		1			1.7			2	3

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COs	Machine Learning (BTCOC603)
BTCOC603_1	Recognise 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.

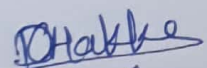
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BTCOC603_1	1	1	1	1			2	1						1
BTCOC603_2	2	1	2	2			3	1						3
BTCOC603_3	3	1	2	2			3	1						2
BTCOC603_4	2	1	2	2			3	1						2
AVG	2	1	1.75	1.75			2.75	1						2

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COs	Internet of Things (BTCOE604B)
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
BTCOE604B_5	Understand the tools and techniques used in Big data analytics for IOT

CO to PO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTCOE604B_1			2		2	2	2	2				2	2	3
BTCOE604B_2			3	3	3	3	2			2		3	3	2
BTCOE604B_3			2	2				2						3
BTCOE604B_4				2		2							3	3
BTCOE604B_5			2	2		2	1						2	2
AVG			2.5	2.33	2.5	2.25	1.67	2		2		2.5	2.5	2.6

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COs	Consumer Behaviour (BTHM605C)
BTHM605C_1	Identify the dynamics of human behavior 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 behavior and its effect in marketing.
BTHM605C_4	Compare physiological, social and ethical implications of marketing actions on consumer behavior and adopt appropriate techniques for diffusion.

CO to PO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTHM605C_1	2	3		1		3		2	1					2
BTHM605C_2	3	3		3				2	1	1				3
BTHM605C_3	3	3				3		3	1	3				3
BTHM605C_4	3	3		3		3		3	1	3				3
AVG	2.8	3		2.3		3		2.5	1	2.3				2.8

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COs	Competitive Programming & Machine Learning Lab (BTCOL606)
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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BTCOL606_1	3	3	3	3	3			1	2		1	2	2	2
BTCOL606_2	3	3	3	3	3			1	2		1	2	2	2
BTCOL606_3	3	3	3	3	3			1	2		1	2	2	2
BTCOL606_4	3	3	3	3	3			1	2		1	2	2	2
AVG	3	3	3	3	3			1	2		1	2	2	2

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COs	Mini-project – II (BTCOM607)
BTCOM607_1	Apply modern software tools to implement the software solution of the problem
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

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BTCOM607_1	3	2	3	1		2			2	2	2	2	1	1
BTCOM607_2	1	2	3		3				2	1			1	
BTCOM607_3	2	2	3		2				2	1	1		2	1
BTCOM607_4	1	1	1	1	1	2				3	2	1	1	2
AVG	1.8	1.8	2.5	1	2	2			2	1.8	1.7	1.5	1.3	1.3

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