



Shiksha Mandal's
Bajaj Institute of Technology, Wardha
(Affiliated to DBATU, Lonere, Raigad, Maharashtra)

Academic Session: 2022-23

Doc. No.: BITACAD/Structure/
COMP/Odd Sem/23-24

Date: 01/08/2023

Department of Computer Engineering

B. Tech. Computer Engineering

Course Structure for Semester III [Second Year] w.e.f. 2020-2021

Regular Structure (DBATU)

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTBS301	Basic Science Course	Engineering Mathematics-III	3	1	-	20	20	60	100	4
BTCOC302	Professional Core Course	Discrete Mathematics	3	1	-	20	20	60	100	4
BTCOC303	Professional Core Course	Data Structures	3	1	-	20	20	60	100	4
BTCOC304	Professional Core Course	Computer Architecture & Organization	3	1	-	20	20	60	100	4
BTCOC305	Emerging Courses	Elective -I (a) Object - oriented Programming in C++ (b) Object Oriented Programming in Java	3	1	-	20	20	60	100	4
BTCOL306	Professional Core Course	Data Structures Lab & Object Oriented Programming Lab	-	-	4	60	-	40	100	2
BTCOS307	Seminar / Mini Project / Internship	Seminar - I	-	-	4	60	-	40	100	2
BTES211P	Seminar / Mini Project / Internship	Field Training / Internship / Industrial Training-I Evaluation	-	-	-	-	-	-	-	Audit

VAP/Add-on Course/s (A BIT Initiative)

Course Code	Course Title	Weekly Teaching Scheme	Evaluation Scheme (Marks)			
		L+P	TEST-1	TEST-2	Final Exam	Total
COC3-A	VAP on Complete Guide to Application Design & Development(ADD): Module 1	2	10	10	30	50
COC3-B	Add-On course on JAVA: Essentials and Beyond	2	10	10	30	50


Academic Coordinator


Head of the Department

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Department of Computer Engineering
Bajaj Institute of Technology, WARDHA

Document No	Prepared on	Revised on	Prepared By	Approved By
BITACAD/Structure/ Branch/Even Sem/22-23	09/04/21	16/04/21(V1) 28/02/23 (V2)	MDP	Dr. N.M. Kanhe Principal



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Department of Computer Engineering

B. Tech. Computer Engineering

Course Structure for Semester IV [Second Year] w.e.f. 2020-2021

Regular Structure (DBATU)

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTCOC401	Professional Core Course	Design & Analysis of Algorithms	3	1	-	20	20	60	100	4
BTCOC402	Professional Core Course	Operating Systems	3	1	-	20	20	60	100	4
BTHM403	Humanities and Social Science including Management Courses	Basic Human Rights	3	-	-	20	20	60	100	3
BTBSC404	Basic Science Course	Probability Theory and Random Processes	3	-	-	20	20	60	100	3
BTES405	Engineering Science Course	Digital Logic Design & Microprocessors	3	1	-	20	20	60	100	4
BTCOL406	Emerging Courses	Operating Systems & Python Programming Lab	1*	-	4	60	-	40	100	3
BTCOS407	Seminar / Mini Project / Internship	Seminar – II	-	-	4	60	-	40	100	2
BTCOF408	Seminar / Mini Project / Internship	Field Training / Internship / Industrial Training-II	-	-	-	-	-	-	-	Audit

VAP/Add-on Course/s (A BIT Initiative)

Course Code	Course Title	Weekly Teaching Scheme	Evaluation Scheme (Marks)			
		L+P	TEST-1	TEST-2	Final Exam	Total
COC4-A	Add-on course on Data Science with R	2	10	10	30	50

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B. Tech. Computer Engineering

Course Structure for Semester V [Third Year] w.e.f. 2020-2021

Regular Structure (DBATU)

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTCOC501	Professional Core Course	Database Systems	3	1	-	20	20	60	100	4
BTCOC502	Professional Core Course	Theory of Computation	3	1	-	20	20	60	100	4
BTCOC503	Professional Core Course	Software Engineering	3	1	-	20	20	60	100	4
BTCOE504	Professional Elective Course	Elective - II (A) Human computer Interaction (B) Numerical Methods	3	-	-	20	20	60	100	3
BTHM505	Humanities and Social Science including Management Courses	Elective - III (A) Economics and Management (B) Business Communication	3	-	-	20	20	60	100	3
BTCOL506	Professional Core Course	Database Systems & Software Engineering Lab	-	-	4	60	-	40	100	2
BTCOM507	Seminar / Mini Project / Internship	Mini-project - I	-	-	4	60	-	40	100	2
BTCOF408	Seminar / Mini Project / Internship	Field Training / Internship / Industrial Training-II (Evaluation)	-	-	-	-	-	-	-	Audit

VAP/Add-on Course/s (A BIT Initiative)

Course Code	Course Title	Weekly Teaching Scheme	Evaluation Scheme (Marks)			
		L+P	TEST-1	TEST-2	Final Exam	Total
COC5-A	VAP on Complete Guide to Application Design & Development(ADD): Module 2	2	10	10	30	50
COC5-B	Add-on course on Web Automation Testing using Selenium and Java	2	10	10	30	50

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Department of Computer Engineering
B. Tech. Computer Engineering

Course Structure for Semester VI [Third Year] w.e.f. 2020-2021


Regular Structure (DBATU)

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTCOC601	Professional Core Course	Compiler Design	3	1	-	20	20	60	100	4
BTCOC602	Professional Core Course	Computer Networks	3	1	-	20	20	60	100	4
BTCOC603	Emerging Courses	Machine Learning	3	1	-	20	20	60	100	4
BTCOE604	Professional Elective Course	Elective – IV (A) Geographic Information System (B) Internet of Things (C) Embedded Systems	3	-	-	20	20	60	100	3
BTHM605	Humanities and Social Science including Management Courses	Elective – V (A) Development Engineering (B) Employability and Skill Development (C) Consumer Behaviour	3	-	-	20	20	60	100	3
BTCOL606	Emerging Courses	Competitive Programming & Machine Learning Lab	1*	-	4	60	-	40	100	3
BTCOM607	Seminar / Mini Project / Internship	Mini-project – II	-	-	4	60	-	40	100	2
BTCOF608	Seminar / Mini Project / Internship	Field Training / Internship / Industrial Training-III	-	-	-	-	-	-	-	Audit

VAP/Add-on Course/s (A BIT Initiative)

Course Code	Course Title	Weekly Teaching Scheme	Evaluation Scheme (Marks)			
		L+P	TEST-1	TEST-2	Final Exam	Total
COC6-A	VAP on Complete Guide to Application Design & Development(ADD): Module 3	2	10	10	30	50
COC6-B	Add-on Course on Foundations of Ubiquitous Computing with IoT Integration	2	10	10	30	50


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Department of Computer Engineering

B. Tech. Computer Engineering

Course Structure for Semester VII [Fourth Year] w.e.f. 2020-2021

Regular Structure (DBATU)

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTCOC701	Emerging Courses	Artificial Intelligence	3	-	-	20	20	60	100	3
BTCOC702	Emerging Courses	Cloud Computing	3	-	-	20	20	60	100	3
BTCOE703	Professional Elective Course	Elective – VI (A) Bioinformatics (B) Distributed System (C) Big Data Analytics	3	-	-	20	20	60	100	3
BTCOE704	Open Elective Course	Open Elective – VII (A) Cryptography and Network Security (B) Business Intelligence (C) Block chain Technology	3	-	-	20	20	60	100	3
BTCOE705	Open Elective Course	Open Elective – VIII (A) Virtual Reality (B) Deep Learning (C) Design Thinking	3	-	-	20	20	60	100	3
BTHM706	Humanities and Social Science including Management Courses	Foreign Language Studies	-	-	4	-	-	-	-	Audit
BTCOL707	Emerging Courses	Artificial Intelligence & Cloud Computing Lab	-	-	4	60	-	40	100	2
BTCOS708	Seminar / Mini Project / Internship	Project Phase – I	-	-	-	60	-	40	100	2
BTCOF608	Seminar / Mini Project / Internship	Field Training / Internship / Industrial Training-III (Evaluation)	-	-	-	-	-	-	-	Audit

VAP/Add-on Course/s (A BIT Initiative)

Course Code	Course Title	Weekly Teaching Scheme	Evaluation Scheme (Marks)			
		L+P	TEST-1	TEST-2	Final Exam	Total
COC7-A	VAP on Complete Guide to Application Design & Development (ADD): Module 4	2	10	10	30	50
COC7-B	Add-on Course on Business Intelligence Tools	2	10	10	30	50

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B. Tech. Computer Engineering

Course Structure for Semester VIII [Fourth Year] w.e.f. 2020-2021

Regular Structure (DBATU)

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTCOF801	Seminar / Mini Project / Internship	Project phase – II (In-house) / Internship and Project in Industry	-	-	24	60	-	40	100	12


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