



Shri Mahatma Basweshwar Education Society's
M.S. BIDVE ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & DTE, Mumbai , Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere)

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'NAAC' Accredited

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2.6.2: Attainment of POs and COs are evaluated.

CO Attainment

Course Name: Information Technology

Semester: - Odd		A.Y-2022-23	COA-Target- 1.5 (for all courses)			
Semester	Subject Code	Subject Name	CO- I IV and V	CO- II & III	ETE	Total COA
III	BTITC305	Data Structures and Applications	1	1	3	2.2
III	BTBS301	Engineering Mathematics - III	3	1	1	1.27
III	BTITC304	Object Oriented Paradigm with C++	3	2	2	2
III	BTITC303	Computer Architecture and Organization	1	1	2	1.6
III	BTHM3402	Interpersonal Communication Skills and Self-Development For Engineers	3	3	3	2.73
V	BTITPE503E	Data Visualization	2	1	2	1.8
V	BTITOE504C	Programming In Java	1	1	1	1.00
V	BTITC501	Software Engineering	2	3	3	2.8
V	BTITC502	Computer Networks and Internetworking Protocols	1	1	3	2.2
VII	BTITC702	Artificial Intelligence	1	2	3	2.6
VII	BTITC701	Cloud Computing and Storage Management	3	1	3	2.47
VII	BTITE703C	Electronic Payment System	3	3	3	3
VII	BTITPE705B	Information Security	1	2	3	2.33
VII	BTITOE704B	Machine Learning	3	3	3	3

Semester: - Even		A.Y-2022-23				
Semester	Subject Code	Subject Name	CO-I & IV V	CO- II & III	ETE	Total COA
IV	BTITC404	Design and Analysis of Algorithms	3	1	3	2.6
IV	BTITC403	Discrete Mathematics	3	3	3	3.00
IV	BTITHM401	Organizational Behavior	3	3	3	3
IV	BTITC402	Probability and Statistics	3	2	3	2.8
IV	BTITPE405B	Web Technology	3	3	3	3
VI	BTITOE604A	Compiler Design	3	1	3	2.6
VI	BTITC602	Database Management Systems	3	3	3	3.00
VI	BTITC601	Operating Systems	3	2	3	2.8
VI	BTITPE603A	Software Testing	3	3	3	3
VIII	BTITC801	Internet of Things	3	3	3	3
VIII	BTITC802	Mobile Computing	3	3	3	3.00

Course Name: Electronics Engineering

Semester:- Odd (Theory)		A.Y-2022-2023				
Semester	Subject Code	Subject Name	CO- I&IV V	CO- II&III	ETE	Total(COA)
III	BTBS301	Engg mathematics III	1	1	1	1
III	BTEXC302	Electronics Devices And Circuits	3	1	1	1.40
III	BTEXC303	Digital electronics	3	1	2	2
III	BTEXPE304	Network Theory	1	1	1	1
V	BTEXC501	Analog Circuits	2	2	1	1.4
V	BTEXC502	Digital Signal Processing	3	1	1	1.40
V	BTEXC503	Microelectronics	3	3	1	1.8
V	BTEXPE504(A)	Electromagnetic Field Theory	2	1	1	1.2
V	BTEXOE505(A)	Digital System Design	1	3	1	1.4
VII	BTEXC701	Antenna and Wave Propagation	3	1	1	1.4
VII	BTEXPE702	Digital Image Processing	2	1	1	1.20
VII	BTEXOE703	CMOS Design	1	1	1	1

VII	BTEXPE704D	Wireless Communication	2	1	3	2.4
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Semester: - Odd (Practical's)		A.Y-2022-2023			
Semester	Subject Code	Subject Name	CO- I&IV CO- II&III	ETE	Total
III	BTEXL306	DE and NT lab	3	3	3
III	BTEXS307	Seminar	3	3	3
III	BTES211P	Internship Evaluation	3	3	3
V	BTEXL507	Analog Circuits & DSP	3	3	3
V	BTEXM508	Mini project	3	3	3
V	BTEXP408	Internship Evaluation	3	3	3
VII	BTEXP709	Project I	3	3	3
VII	BTEXS710	Seminar	3	3	3
VII	BTEXF612	Field Training/Internship Evaluation	3	3	3

Semester: - Even(Theory)		A.Y-2022-23				
Semester	Subject Code	Subject Name	CO- I&IV V	CO- II&III	ETE	Total
IV	BTHM403	Basic Human Rights	3	1	1	1.4
IV	BTES401	Electronics Measurement and Instruments	3	1	1	1.40
IV	BTEXC402	Signals and Systems	3	3	1	1.8
IV	BTEXP405C	Computer Organisation and Algorithms	3	3	1	1.8
IV	BTBXS404	PT&RP	3	1	1	1.4
VI	BTEXC601	Power Electronics	3	3	3	3
VI	BTEXC602	Microprocessor And Microcontrollers	3	1	2	2.00

VI	BTEXP603B	Control Systems	3	1	2	2
VI	BTEXOE604(B)	Communication Engineering	3	1	1	1.4
VI	BTHM605	Employability and Skill Development	3	3	2	2.4
VIII	BTETP801A	IOT	3	3	3	3
VIII	BTETP	Digital IC Design	1	1	3	2.2

Semester: Even(Practical's)		A.Y-2022-2023			
Semester	Subject Code	Subject Name	CO- I to IV	ETE	Total
IV	BTEXL406	S&S lab	3	3	3
IV	BTEXS407	Seminar II	3	3	3
VI	BTEXL606	PE & MP Lab	3	3	3
VI	BTEXL607	Mini project II	3	3	3

Course Name: Mechanical Engineering

Semester: - Odd		A.Y- 2022-2023					
Semester	Subject Code	Subject Name	CO- I /COI TO CO V	CO- II & III	CO- IV & V	ETE	Total
III	BTBS301	Engineering Mathematics - III	3	3	3	1	1.8
III	BTMC302	Fluid Mechanics	1	2	3	1	1.4
III	BTMC303	Thermodynamic	3	3	1	1	1.53
III	BTMES304	Materials Science and Metallurgy	1	1	1	1	1
V	BTMC 502	Machine Design - I	2	1		2	1.8

V	BTMC 501	Heat Transfer	1	1		1	1
V	BTMC 503	Theory of machines -II	3	3		2	2.4
V	BTAP504D	Elective II (D) Automobile Engineering	3	1		1	1.4
V	BTMOE505B	Open Elective I (B) Renewable Energy Sources	1	3		2	2
V	BTMC 506	Applied Thermodynamics	1	2		1	1.2
VII	BTMEC701	MECHATRONICS	3	1	2	2	2
VII	BTMEC702	CAD/CAM	3	3	1	2	2.13
VII	BTMEC703	Manufacturing Processes-III	2	3	1	3	2.6
VII	BTMEC704A	Fluid Machinery	2	3	1	1	1.4

Semester: - Even							
Semester	Subject Code	Subject Name	CO- I/ COI IV V	CO- II & III	CO- IV & V	ETE	Total
IV	BTMC401	Manufacturing Process-I	3	3	3	2	2.4
IV	BTMC402	Theory of machines-I	3	3	3	1	1.8
IV	BTHM403	Basic Human Rights	3	3	3	2	2.4
IV	BTMES404	Strength Of Material	3	3	1	1	1.53
IV	BTMPE405	Fluid Machinery (Elective -I)	3	3	2	1	1.67

VI	BTMC 601	Manufacturing Process-II	2	1		1	1.2
VI	BTMS 602	Machine Design-II	2	3		1	1.6
VI	BTMPEO603A	IC Engines (Elective-III)	2	1		1	1.2
VI	BTMPE604D	Robotics (Elective -IV)	3	3		1	1.8
VI	BTMOE605A	Quantitative Techniques and Project Management-(Elective-II)	3	3		1	1.8
VIII	BTMEC801A	Fundamentals of Automotive	3	3	3	3	3
VIII	BTMEC802F	Non-Conventional Energy Recourses	3	3	3	3	3

Course Name: Computer science and Engineering

Semester: - Odd		A.Y-2022-2023				
Semester	Subject Code	Subject Name	CO- I&CO-IV V	CO- II & III	ETE	Total
III	BTBS301	Engg.Math-III	1	1	1	1
III	BTCOC302	Discrete Math.	3	3	2	2.4
III	BTCOC303	Data Structure	3	3	2	2.4
III	BTCOC304	Comp. Arch.& Org.	1	3	3	2.6
III	BTCOC305	EL-I(OOP in JAVA)	3	1	1	1.4
III	BTCOL306	DS & OOP Lab	3	--	3	3
V	BTCOC501	Database Systems	3	3	2	2.4
V	BTCOC502	Theory Of Computation	3	3	3	3
V	BTCOC503	Software Engineering	3	2	1	1.6
V	BTCOE504	EL-II(Numerical Methods)	3	3	2	2.4
V	BTHM505	EL-III(Business Communication)	3	3	3	3
V	BTCOL506	Database & Soft.Engg. Lab	3	--	3	3
VII	BTCOC701	S/w Engg.	3	3	3	3
VII	BTCOE702A	EL-VIII(Big Data)	3	3	2	2.4
VII	BTCOE703A	EL-IX(Cloud Comp.)	3	3	1	1.8
VII	BTCOE704A	Open EL-X(Block Chain)	3	3	3	3

VII	BTCOE704B	Open EL-X(Comp.Graps)	3	3	1	1.8
VII	BTCOL705	Full Stack Development	3	--	3	3
VII	BTCOL706	System Admin.	3	--	3	3
VII	BTCOL707	EL-VIII(Big Data) Lab	3	--	3	3
VII	BTCOL708	EL-IX(Cloud Comp.) Lab	3	--	3	3

Semester: - Even						
Semester	Subject Code	Subject Name	CO- I&CO-IV V	CO- II & III	ETE	Total
VI	BTCOC401	Design & Analysis of Algorithms	3	1	2	2
VI	BTCOC402	Operating Systems	3	1	2	2
VI	BTHM403	Basic Human Rights	3	1	3	2.6
VI	BTBS404	Probability Theory and Random Processes	3	2	1	1.6
VI	BTES405	Digital Logic Design & Microprocessors	3	1	2	2
VI	BTCOL406	Operating Systems & Python Programming Lab	2	--	2	2
VI	BTCOC601	Compiler Design	3	3	3	3
VI	BTCOC602	Computer Networks	3	3	3	3
VI	BTCOC603	Machine Learning	3	3	3	3
VI	BTCOE604B	EL-IV(IoT)	3	1	3	2.6
VI	BTHM605C	EL-V(Consumer Behaviour)	2	1	3	2.4
VI	BTCOL606	Competitive Programming & ML Lab	3	--	3	3
VIII	BTCOE801B	EL-XI(Social Networks)	3	3	2	2.4
VIII	BTCOE802	EL-XII(Cryptography and Network Security)	3	3	3	3

Course Name: Electrical Engineering

Semester: - Odd						
Semester	Subject Code	Subject Name	CO- I &CO- IV & V	CO- II & III	ETE	Total
III	BTBS301	Engineering Mathematics-III	3	3	1	1.8
III	BTEEC302	Electrical Machines-I	3	1	1	1.4
III	BTEEC303	Electrical and Electronics Measurement	3	1	1	1.4
III	BTES305	Engineering Material Science	1	3	1	1.4
V	BTEEC501	Power System Analysis	3	1	1	1.4

V	BTEEC502	Microprocessor and Microcontroller	3	1	1	1.4
V	BTEEC503	Power Electronics	2	1	1	1.2
V	BTEEPLE504	Group B (Power Quality Issues)	1	1	1	1
V	BTEEOE505	Group C (Electrical Safety)	1	1	1	1
VII	BTEEC701	Power System Operation & Control	3	1	2	2
VII	BTEEC702	High Voltage Engineering	3	1	1	1.4
VII	BTEEC703	Electrical Drives	1	1	2	1.6
VII	BTEEE704	Electrical Traction and Utilization	1	3	1	1.4
VII	BTEEE705	Electrical Power Quality	3	2	1	1.6

Semester (Even)	Subject Code	Subject Name	CO- I & CO- IV & V	CO- II & III	ETE	Total
IV	BTEEC401	Network Theory	3	1	1	1.4
IV	BTEEC402	Power System	3	1	1	1.4
IV	BTEEC403	Electrical Machine-II	3	1	1	1.4
IV	BTBS404	Analog and Digital Electronics	3	1	1	1.4
IV	BTEEPE405	Group A Signals and System	3	3	1	1.8
VI	BTEEC601	Switchgear and Protection	3	1	1	1.4
VI	BTEEC602	Electrical Machine Design	3	1	2	2
VI	BTEEC603	Control System Engineering	3	1	1	1.4
VI	BTEEPE604	Group D (Flexible AC Transmission System)	3	1	3	2.6
VI	BTEEOE605	Group E (Power Plant Engineering)	3	3	3	3
VIII	BTEEP801	High Power Multilevel Converters	3	1	2	2
VIII	BTEEP802	Entrepreneurship Essentials	3	1	2	2