JSPM GROUP OF INSTITUTE, PUNE

SHRI BHAGWANT EDUCATION & RESEARCH CHARITABLE TRUST'S

BHAGWANT INSTITUTE OF TECHNOLOGY, BARSHI.

(Approved by AICTE New Delhi, Govt. of Maharashtra & Affiliated to DBATU Lonere, MSBTE)

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Prof. Dr. T. J. Sawant

President

Ref. No.: SBERCT/BIT/NAAC/2023-24/Cr.-1/04
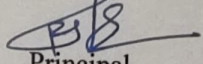
Date: 16/12/2024

To,
The Coordinator,
NAAC, Bengaluru

Subject: Proofs of Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented.

Reference: 1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Dear Sir/Madam,

The detailed information regarding Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented is given in the below link:

https://bitbarshi.edu.in/iqac/ay_23-24/criterion1/1.2.1.pdf

Principal

Principal
Bhagwant Institute of Technology
Barshi.

Enclosure:

1.Sample syllabus structure

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,

B. Tech in Electronics & Telecommunication Engineering
Curriculum for Second Year

Semester III

Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
BSC	BTBS301	Engineering Mathematics – III	3	1	-	20	20	60	100	4
PCC 1	BTETC302	Electronic Devices & Circuits	3	1	-	20	20	60	100	4
PCC 2	BTETC303	Digital Electronics	3	1	-	20	20	60	100	4
ESC	BTES304	Electrical Machines and Instruments	3	1	-	20	20	60	100	4
LC	BTETL305	Electronic Devices & Circuits Lab	-	-	2	60	-	40	100	1
LC	BTETL306	Digital Electronics Lab	-	-	2	60	-	40	100	1
Seminar	BTETS307	Seminar I	-	-	4	60	-	40	100	2
Internship	BTES211P	Internship – 1 Evaluation	-	-	-	-	-	-	-	Audit
		Total	12	4	8	260	80	360	700	20

Semester IV

Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
PCC 3	BTETC401	Network Theory	3	1	-	20	20	60	100	4
PCC 4	BTETC402	Signals and Systems	3	1	-	20	20	60	100	4
HSSMC	BTHM403	Basic Human Rights	3	-	-	20	20	60	100	3
BSC	BTBS404	Probability Theory and Random Processes	3	-	-	20	20	60	100	3
PEC 1	BTETPE405	(A) Numerical Methods and Computer Programming (B) Data Compression & Encryption (C) Computer Organization and Architecture (D) Introduction to MEMS (E) Python Programming	3	1	-	20	20	60	100	4
LC	BTETL406	Network Theory Lab & Signals and Systems Lab	-	-	4	60	-	40	100	2
Seminar	BTETS407	Seminar II	-	-	4	60	-	40	100	2
Internship	BTETP408 (Internship – 2)	Field Training /Internship/Industrial Training (minimum of 4 weeks which can be completed partially in third semester and fourth semester or in at onetime).	-	-	-	-	-	-	-	Audit (evaluation will be in V Sem.)
		Total	15	3	8	220	100	380	700	22

BSC = Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course
PEC = Professional Elective Course, OEC = Open Elective Course, LC = Laboratory Course
HSSMC = Humanities and Social Science including Management Courses

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,

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Curriculum for Third Year

Semester V

Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
PCC 5	BTETC501	Electromagnetic Field Theory	3	1	-	20	20	60	100	4
PCC 6	BTETC502	Digital Signal Processing	3	1	-	20	20	60	100	4
PCC 7	BTETC503	Analog Communication	3	1	-	20	20	60	100	4
PEC 2	BTETPE504	Group A	3	1	-	20	20	60	100	4
OEC 1	BTETOE505	Group B	3	1	-	20	20	60	100	4
LC	BTETL506	Digital Signal Processing Lab & Analog Communication Lab	-	-	4	60	-	40	100	2
Project	BTETM507	Mini Project – 1	-	-	4	60	-	40	100	2
Internship	BTETP408	Internship – 2 Evaluation	-	-	-	-	-	-	-	Audit
		Total	15	5	8	220	100	380	700	24

Semester VI

Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
PCC 8	BTETC601	Antennas and Wave Propagation	3	1	-	20	20	60	100	4
PCC 9	BTETC602	Digital Communication	3	1	-	20	20	60	100	4
PEC 3	BTETPE603	Group A	3	1	-	20	20	60	100	4
OEC 2	BTETOE604	Group B	3	1	-	20	20	60	100	4
HSSMC	BTHM605	Employability and Skill Development	3	-	-	20	20	60	100	3
LC	BTETL606	Digital Communication Lab & Professional Elective Course 3 Lab	-	-	4	60	-	40	100	2
Project	BTETM607	Mini Project – 2	-	-	4	60	-	40	100	2
Internship	BTETP608 (Internship – 3)	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in third semester and fourth semester or in at one time).	-	-	-	-	-	-	-	Audit (evaluation will be in VII Sem.)
		Total	15	4	8	220	100	380	700	23

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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,

Semester V

BTETPE504 Program Elective 2 (Group A)	BTETOE505 Open Elective 1 (Group B)
(A) Analog Circuits	(A) Control System Engineering
(B) Embedded System Design	(B) Artificial Intelligence and Machine learning
(C) Digital System Design	(C) Optimization Techniques
(D) Automotive Electronics	(D) Project Management and Operation Research
(E) Mixed Signal Design	(E) Augmented, Virtual and Mixed Reality
(F) Power Electronics	(F) Open Source Technologies

Semester VI

BTETPE603 Program Elective 3 (Group A)	BTETOE604 Open Elective 2 (Group B)
(A) Microprocessors and Microcontrollers	(A) IoT and Industry 4.0
(B) CMOS Design	(B) Deep Learning
(C) Nano Electronics	(C) Computer Network
(D) Advanced Digital Signal Processing	(D) Industrial Drives and Control
(E) Information Theory and Coding	(E) Robotics Design
(F) VLSI Signal Processing	(F) Patents and IPR
(G) VLSI Design & Technology	(G) Acoustic Engineering

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,

B. Tech in Electronics & Telecommunication Engineering
Curriculum for Final Year

Semester VII

Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
PCC 10	BTETC701	Microwave Engineering	3	1	-	20	20	60	100	4
PEC 4	BTETPE702	Group A	3	1	-	20	20	60	100	4
OEC 3	BTETOE703	Group B	3	1	-	20	20	60	100	4
OEC 4	BTETOE704	Group C	3	1	-	20	20	60	100	4
HSSMC	BTHM705	Engineering Economics and Financial Mathematics	3	-	-	20	20	60	100	3
HSSMC	BTHM706	Foreign Language Studies	-	-	-	-	-	-	-	Audit
LC	BTETL707	Microwave Engineering Lab	-	-	2	60	-	40	100	1
Project	BTETM708	Mini Project – 3	-	-	4	60	-	40	100	2
Internship	BTETP608	Internship – 3 Evaluation	-	-	-	-	-	-	-	Audit
		Total	15	4	6	220	100	380	700	22

Semester VIII

Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
Project/ Internship	BTETP801	Project work/ Internship	-	-	24	60	-	40	100	12
		Total	-	-	24	60	-	40	100	12

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BTETPE702 Program Elective 4 (Group A)	BTETOE703 Open Elective 3 (Group B)	BTETOE704 Open Elective 4 (Group C)
(A) Digital Image Processing	(A) Wireless Sensor Networks	(A) Soft Computing
(B) RF Circuit Design	(B) Block Chain Technology	(B) Big Data Analytics
(C) Satellite Communication	(C) Cyber Security	(C) Data Structure & Algorithms Using Java Programming
(D) Fiber Optic Communication	(D) Mobile Computing	(D) Entrepreneurship Development
(E) Bio-medical Signal Processing	(E) Mobile Communication and Networks	(E) Software Defined Radio
(F) Principles of Modern Radar Engineering	(F) EMI and EMC	(F) E Waste Management

Total Credits: 160