



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/2022-23/Cr.-1/05

Date: 19/12/2023

To,
The Coordinator,
NAAC, Bengaluru

Subject: Proofs of Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.

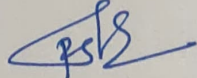
Reference: 1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Dear Sir/Madam,

The Courses integrating Cross cutting issues mentioned in the reference above are available along with syllabus structure in the link given below.

https://bitbarshi.edu.in/iqac/ay_22-23/criterion1/1.3.1.pdf




Principal
Principal
Bhagwant Institute of Technology
Barshi.

Enclosure:

1. Sample syllabus structure

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	3	1	-	20	20	60	100	4
		(B) Data Compression & Encryption								
		(C) Computer Organization and Architecture								
		(D) Introduction to MEMS								
		(E) Python Programming								
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



BTHM403

Basic Human Rights

3 Credits

Course Objectives:

- 1.To train the young minds facing the challenges of the pluralistic society and the rising conflicts and tensions in the name of particularistic loyalties to caste, religion, region and culture.
- 2.To give knowledge of the major "signposts" in the historical development of human rights, the range of contemporary declarations, conventions, and covenants.
- 3.To enable them to understand the basic concepts of human rights (including also discrimination, equality, etc.), the relationship between individual, group, and national rights.
- 4.To develop sympathy in their minds for those who are denied rights.
- 5.To make the students aware of their rights as well as duties to the nation

Course Outcomes:

1. Students will be able to understand the history of human rights.
2. Students will learn to respect others caste, religion, region and culture.
3. Students will be aware of their rights as Indian citizen.
4. Students will be able to understand the importance of groups and communities in the society.
5. Students will be able to realize the philosophical and cultural basis and historical perspectives of human rights.

UNIT – 1

The Basic Concepts: - Individual, group, civil society, state, equality, justice. Human Values, Human rights and Human Duties: - Origin, Contribution of American bill of rights, French revolution. Declaration of independence, Rights of citizen, Rights of working and exploited people

UNIT – 2

Fundamental rights and economic programme. Society, religion, culture, and their inter relationship. Impact of social structure on human behavior, Social Structure and Social Problems: - Social and communal conflicts and social harmony, rural poverty, unemployment, bonded labor.

UNIT – 3

Migrant workers and human rights violations, human rights of mentally and physically challenged. State, Individual liberty, Freedom and democracy. NGOs and human rights in India: - Land, Water, Forest issues.

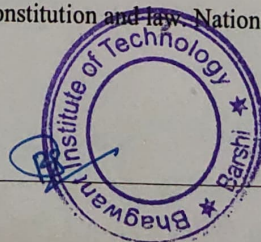
UNIT – 4

Human rights in Indian constitution and law:-

- i)The constitution of India: Preamble ii) Fundamental rights. iii) Directive principles of state policy. iv) Fundamental duties. v) Some other provisions.

UNIT – 5

Universal declaration of human rights and provisions of India. Constitution and law. National human rights commission and state human rights commission.



Dr. Babasaheb Ambedkar Technological University, Lonere

Teaching and Evaluation Scheme for First Year B. Tech. (All Branches)

Group A

Semester I										
Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit	
		L	T	P	CA	MSE	ESE	Total		
Mandatory	Induction Program	3-weeks duration in the beginning of semester.								
BTBS101	Engineering Mathematics- I	3	1	-	20	20	60	100	4	
BTBS102	Engineering Physics	3	1	-	20	20	60	100	4	
BTES103	Engineering Graphics	2	-	-	20	20	60	100	2	
BTHM104	Communication Skills	2	-	-	20	20	60	100	2	
BTES105	Energy and Environment Engineering	2	-	-	20	20	60	100	2	
BTES106	Basic Civil and Mechanical Engineering	2	-	-	50	-	-	50	Audit	
BTBS107L	Engineering Physics Lab	-	-	2	60	-	40	100	1	
BTES108L	Engineering Graphics Lab	-	-	4	60	-	40	100	2	
BTHM109L	Communication Skills Lab.	-	-	2	60	-	40	100	1	
		14	2	8	330	100	420	850	18	
Semester II										
BTBS201	Engineering Mathematics-II	3	1	-	20	20	60	100	4	
BTBS202	Engineering Chemistry	3	1	-	20	20	60	100	4	
BTES203	Engineering Mechanics	2	1	-	20	20	60	100	3	
BTES204	Computer Programming in C	3	-	-	20	20	60	100	3	
BTES205	Workshop Practices	-	-	4	60	-	40	100	2	
BTES206	Basic Electrical and Electronics Engineering	2	-	-	50	-	-	50	Audit	
BTBS207L	Engineering Chemistry Lab	-	-	2	60	-	40	100	1	
BTES208L	Engineering Mechanics Lab	-	-	2	60	-	40	100	1	
BTES210S	Seminar	-	-	2	60	-	40	100	1	
BTES211P	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in first semester and second Semester or in at one time).	-	-	-	-	-	-	-	Credits To be evaluate d in III Sem.	
		13	3	10	430	80	440	950	19	
		27								



BTES105/205 Energy and Environment Engineering

2 Credits

Course Objectives:

1. To Identify conventional ,non conventional energy sources.
2. To understand the power consuming and power developing devices for effective utilization and power consumption
3. To Identify various sources of air, water pollution and its effects.
4. To understand noise,soil, thermal pollution and Identify solid, biomedical and hazardous waste.

Course Outcomes:

Students will be able to:

1. Identify conventional ,non conventional energy sources.
2. Know and discuss power consuming and power developing devices for effective utilization and power consumption
3. Identify various sources of air, water pollution and its effects.
4. Know and discuss noise,soil, thermal pollution and Identify solid, biomedical and hazardous waste.

Unit 1: Conventional Power Generation:

(4 hours)

Steam power station, Nuclear power plant – Gas turbine power plant- Hydro power station: Schematic arrangement, advantages and disadvantages, Thermo electric and thermionic generators, Environmental aspects for selecting the sites and locations of power plants.

Unit 2: Renewable Power Generation:

(4 hours)

Solar, Wind, Biogas and Biomass, Ocean Thermal energy conversion (OTEC), Tidal, Fuel cell, Magneto Hydro Dynamics (MHD): Schematic arrangement, advantages and disadvantages.

Unit 3: Energy conservation

(4 hours)

Scope for energy conservation and its benefits Energy conservation Principle– Maximum energy efficiency, Maximum cost effectiveness, Methods and techniques of energy conservation in ventilation and air conditioners, compressors, pumps, fans and blowers, Energy conservation in electric furnaces, ovens and boilers., lighting techniques.

Unit 4: Air Pollution

(4 hours)

Environment and Human health - Air pollution: sources- effects- control measures - Particulate emission, air quality standards, and measurement of air pollution.

Unit 5: Water Pollution

(4 hours)

Water pollution- effects- control measures- Noise pollution –effects and control measures, Disposal of solid wastes, Bio-medical wastes-Thermal pollution – Soil pollution -Nuclear hazard.

Reference/Text Books:

1. A Chakrabarti, M. L. Soni, P. V. Gupta, U. S. Bhatnagar, A Text book of Power System Engineering, Dhanpat Rai Publication.
2. Rai. G. D., Non Conventional Energy Sources, Khanna Publishers, Delhi, 2006
3. Rao S., Parulekar B.B., Energy Technology-Non conventional, Renewable And Conventional, Khanna Publishers, Delhi, 2005.

