

7.1.9 Sensitization about constitutional obligation

Our institute celebrates **Independence Day & Republic Day** every year the flag hosting ceremony is kept for students & staff in front of the college at morning, we salute the national flag and sing the national Anthem .On these day Speeches are carried out every year on constitutional obligations so sensitization of students faculty and non-teaching staff takes place. Our institute also regularly celebrates the birth anniversaries of Indian Personality like **Dr.Babasaheb Ambedkar, Mahatma Gandhi, M. Visvesvariya, Chhtrapati Shivaji, Dr.Sarvpalli Radhakrishnanetc.** on such occasion our institution principal ,vice principal ,head of department and all teaching staff & Nonteaching staff gather together on memory of these great personalities of the nation, Remember them and their efforts towards the nation and take pledge to follow them.

Our institute celebrates **Voters Day, Democracy Day, World Environment Day** to aware students and faculties about their rights and fundamental duties.

In our D-BATU university syllabus there is a one subject of Basic Human Rights. Subject includes Indian constitutional terms like Rights of Indian citizens, responsibilities and many more terms on constitutional obligation.

COURSE STRUCTURE FOR SEMESTER III
B. Tech in Mechanical Engineering / B. Tech. in Mechanical Engineering (Sandwich)
 (w.e.f. 2021-22)

Semester III										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				No. of Credits
			L	T	P	CA	MSE	ESE	Total	
BSC7	BTBS301	Engineering Mathematics – III	3	1	-	20	20	60	100	4
PCC1	BTMC302	Fluid Mechanics	3	1	-	20	20	60	100	4
PCC2	BTMC303	Thermodynamics	3	1	-	20	20	60	100	4
ESC10	BTMES304	Materials Science and Metallurgy	3	1	-	20	20	60	100	4
PCC3	BTMCL305	Machine Drawing and CAD Lab	-	-	4	60	-	40	100	2
PCC4	BTMCL306	Mechanical Engineering Lab – I	-	-	4	60	-	40	100	2
PROJ-1	BTES209P	IT – 1 Evaluation	-	-	-	-	-	100	100	1
		Constitution of India*								Audit
Total			12	4	8	200	80	420	700	21

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

COURSE STRUCTURE FOR SEMESTER IV
B. Tech in Mechanical Engineering / B. Tech. in Mechanical Engineering (Sandwich)
 (w.e.f. 2021-22)

Semester IV										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				No. of Credits
			L	T	P	CA	MSE	ESE	Total	
PCC 5	BTMC401	Manufacturing Processes – I	3	1	-	20	20	60	100	4
PCC 6	BTMC402	Theory of Machines-I	3	1	-	20	20	60	100	4
HSSMC3	BTMH403	Basic Human Rights	3	-	-	20	20	60	100	3
ESC11	BTMES404	Strength of Materials	3	1	-	20	20	60	100	4
PEC 1	BTMPE405A-C	Elective-I	3	1	-	20	20	60	100	4
PCC7	BTMCL406	Mechanical Engineering Lab-II	-	-	4	60	-	40	100	2
PROJ-2	BTMH407	Field Training /Industrial Training (minimum of 4 weeks which can be completed partially in the third and fourth semester or in one semester itself)	-	-	-	-	-	-	-	Credits to be evaluated in Sem V
Total			15	4	4	160	100	340	600	21

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Elective I

Sr. No	Course code	Course Name
1	BTMPE405A	Numerical Methods in Engineering
2	BTMPE405B	Sheet Metal Engineering
3	BTMPE405C	Fluid Machinery

COURSE STRUCTURE FOR SEMESTER V
B. Tech in Mechanical Engineering / B. Tech. in Mechanical Engineering (Sandwich)
 (w.e.f. 2022-23)

Semester V										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				No. of Credits
			L	T	P	CA	MSE	ESE	Total	
PCC 8	BTMC 501	Heat Transfer	3	1	-	20	20	60	100	4
PCC 9	BTMC 502	Machine Design – I	3	1	-	20	20	60	100	4
PCC 10	BTMC 503	Theory of Machines- II	3	1	-	20	20	60	100	4
PEC 2	BTMPE 504A-C BTAPES04A,D	Elective-II	3	-	-	20	20	60	100	3
OEC 1	BTMOE 505A-D	Open Elective-I	3	-	-	20	20	60	100	3
PCC 11	BTMC 506	Applied Thermodynamics	3	1	-	20	20	60	100	4
PCC12	BTMCL 507	Mechanical Engineering Lab – III	-	-	6	60	-	40	100	3
PROJ-2	BTMI 408	IT – 2 Evaluation	-	-	-	-	-	100	100	1
		Artificial Intelligence*	3							3*
Total			18+3	4	6	180	120	500	800	26+3*

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Basic Human Rights

BTHM403	HSSMC3	Basic Human Rights	3-0-0	3 Credits
Teaching Scheme: Lecture: 3 hrs/week		Examination Scheme: Audit Course		

Pre-Requisites: None

Course Outcomes: At the end of the course, students will be able to:

CO1	Understand the history of human rights.
CO2	Learn to respect others caste, religion, region and culture.
CO3	Be aware of their rights as Indian citizen.
CO4	Understand the importance of groups and communities in the society.
CO5	Realize the philosophical and cultural basis and historical perspectives of human rights.
CO6	Make them aware of their responsibilities towards the nation.

Mapping of course outcomes with program outcomes

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1						2						
CO2												
CO3												
CO4									3			
CO5								2		2		

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CO6												1
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Course Contents:

Unit 1: The Basic Concepts, Fundamental Rights and Economic Program [07 Hours]
Individual, group, civil society, state, equality, justice. Human Values, Human rights and Human Duties. Declaration of independence, Rights of citizen, Rights of working and exploited people. Society, religion, culture, and their inter-relationship. Impact of social structure on human behavior.
Social Problems: Social and communal conflicts and social harmony, rural poverty, unemployment, bonded labour.

Unit 2: Workers and Human Rights [07 Hours]
Migrant workers and human rights violations, human rights of mentally and physically challenged. State, Individual liberty, Freedom and democracy.

Unit 3: NGOs and Human Rights in India [07 Hours]
Land, Water, Forest issues.

Unit 4: Human Rights in Indian Constitution and Law [07 Hours]
i) The constitution of India: Preamble
ii) Fundamental rights.
iii) Directive principles of state policy.
iv) Fundamental duties.
v) Some other provisions.

Unit 5: UDHR and Indian Constitution [07 Hours]
Universal declaration of human rights and provisions of India; Constitution and law; National human rights commission and state human rights commission.

References:

- Shastri, T. S. N., "India and Human Rights: Reflections", Concept Publishing Company India (P Ltd.), 2005.
- C. J. Nirmal, "Human Rights in India: Historical, Social and Political Perspectives (Law in India)", Oxford India.