



Value Added Courses Offered

Department: **Civil Engineering**

Academic Year: 2024-25

List of Value Added Courses

Sr. No.	Course Code	Name of the Course
01.	LAUATC1	Indian Constitution
02.	CEUBTH2	Human Values and Ethics
03.	CEUDTM1	Management and Organizational Behaviour



SCHOOL OF STUDIES OF ENGINEERING AND TECHNOLOGY
Scheme of Teaching and Evaluation 2022-2023 (As per NEP-2020)

Choice Based Credit System (CBCS) and Outcome Based Education (OBE)
(Effective from the Academic Year 2022-2023)

I-SEMESTER BTech Mechanical/TP/Chemical/Civil Engineering									
S.N.	Course Code	Course Title	Teaching Hours/week			Examination			
			Theory/lecture	Tutorial	Practical/Design	Examination Marks	CIA Marks	SEA Marks	Total Marks
			T	T	P				
1	AME1ATR1	Engineering Mathematics - A	3	1	-	03	40	60	100
2	CYU1ADR	Engineering Chemistry	3	-	-	03	40	60	100
3	ECU1ADR	Basic Electrical and Electronics Engineering	3	-	-	03	40	60	100
4	ROU1ADR	Environmental Science and Ecology	2	-	-	03	40	60	100
5	CSU1ATR	Computer Programming	3	-	-	03	40	60	100
6	LAG1ADR	Indian Constitution	1	-	-	01	50	-	50
7	CYU1ADR	Engineering Chemistry Laboratory	-	-	2	03	25	25	50
8	CSU1ATR	Computer Programming Laboratory	-	-	2	03	25	25	50
9	ECU1ADR	Engineering Workshop Practice	-	-	2	03	25	25	50
10	ROU1ADR	Sports and Yoga	-	-	2	-	25	25	50
Total			15	1	06	25	250	400	750
Note: AM:Mathematics, PP:Physics, ME: Mechanical Engineering, IP: Industrial & Production Engineering, CE: Civil Engineering, CS: Computer Sc. & Engg., IT: Information Technology, PE: Physical Education, PO: Forestry, LA: Law, NS: NSS, U: Undergraduate, T: Theory, L: Laboratory. BASIC SCIENCE (B) 1. Mathematics - A 2. Engineering Mechanics 3. Introduction to Information Technology 4. Physics 5. Chemistry 6. Mathematics - B SKILL ENHANCEMENT COURSE (L) 1. Engineering Graphics 2. Engineering Workshop Practice HUMANITIES SCIENCE (H) 1. English for Communication 2. Human Values and Ethics MANDATORY COURSE (C) 1. Indian Constitution 2. Environmental Science & Ecology EXTRA-CURRICULAR ACTIVITIES (E) 1. NSS 2. Sports and Yoga									
Credit Definition: 1. Four credit courses are to be selected for 50 hours of Teaching-Learning session.									

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II-SEMESTER BTech Mechanical/TP/Chemical/Civil Engineering									
S.N.	Course Code	Course Title	Teaching Hours/week			Examination			
			Theory/lecture	Tutorial	Practical/Design	Examination Marks	CIA Marks	SEA Marks	Total Marks
			T	T	P				
1	AME2TR4	Engineering Mathematics-II	3	1	-	03	40	60	100
2	PPU2TR2	Engineering Physics	3	1	-	03	40	60	100
3	ITU2TR2	Introduction to Information Technology	3	-	-	03	40	60	100
4	ELU2TR3	English for Communication	3	-	-	03	40	60	100
5	CEU2TR2	Engineering Mechanics	3	-	-	03	40	60	100
6	ME U2TR2CH U2TR3/ IP U2TR2CH U2TR3	Human Values and Ethics	1	-	-	02	50	-	50
7	PPU2TR2	Engineering Physics Laboratory	-	-	2	03	25	25	50
8	CEU2TR2	Engineering Mechanics Laboratory	-	-	2	03	25	25	50
9	MEU2TR2	Engineering Graphics	3	-	3	03	25	25	50
10	NSS2TR1	NSS	-	-	2	01	25	25	50
Total			17	2	09	27	350	400	750
Note: AM:Mathematics, PP:Physics, ME: Mechanical Engineering, IP: Industrial & Production Engineering, CE: Civil Engineering, CS: Computer Sc. & Engg., IT: Information Technology, PE: Physical Education, NS: NSS, U: Undergraduate, T: Theory, L: Laboratory. BASIC SCIENCE (B) 1. Mathematics - A 2. Engineering Mechanics 3. Introduction to Information Technology 4. Physics 5. Chemistry 6. Mathematics - B SKILL ENHANCEMENT COURSE (L) 1. Engineering Graphics 2. Engineering Workshop Practice HUMANITIES SCIENCE (H) 1. English for Communication 2. Human Values and Ethics MANDATORY COURSE (C) 1. Indian Constitution 2. Environmental Science & Ecology EXTRA-CURRICULAR ACTIVITIES (E) 1. NSS 2. Sports and Yoga									



SYLLABUS	(SEMESTER-I)	Periods/Week			Internal Assessment (IA)				ESE	Grand Total	Credits
Subject Code:	LAUATC1	L	T	P	CT-1	CT-2	Attendance & Assignments	TOTAL			
Subject:	INDIAN CONSTITUTION	1	-	-	20	20	10	50	-	50	01

Course Learning Objectives:

- To the importance of preamble of the constitution of India.
- To understand the fundamental rights and duty as a citizen of India.
- To understand the functioning of union and state government and their inter-relationship.

Course Content:

UNIT 1: Introduction: Constitution-meaning of the term, Sources and constitutional theory, Features, Citizenship, Preamble.

UNIT 2: Fundamental Rights and Duties: Fundamental Rights, Fundamental Duties, Directive Principles of State Policy

UNIT 3: Union Government: Structure of Indian Union: Federalism, Centre-State relationship President: Role, Power and position, Prime Minister and council of ministers, Cabinet and Central Secretariat, Lok Sabha, Rajya Sabha

UNIT 4: State Government: Governor: Role and position, Chief Minister and council of ministers, State Secretariat

UNIT 5: Relationship between Centre and States: Distribution of Legislative Powers, Administrative Relations, Coordination between States

Textbooks/References:

- Constitution of India, V.N. Shukla
- The Constitutional Law of India, J.N. Pandey
- Indian Constitutional Law: M.P. Jain

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

- Describe the salient features of the Indian Constitution
- List the Fundamental Rights and Fundamental Duties of Indian citizens
- Describe the Directive Principles of State Policy and their significance

Course Outcomes and their mapping with Programme Outcomes: INDIAN CONSTITUTION (LAUATC1)

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1						2		3				1			
CO2						2		3				1			
CO3						2		3				1			

Weightage: 1-Slightly; 2-Moderately; 3-Strongly



SYLLABUS	(SEMESTER-II)	Periods/ Week			Internal Assessment (IA)				ESE	Grand Total	Credits
Subject Code:	MEUBTH2 (for Mech) CHUBTH2 (for Chem) IPUBTH2 (for IPE) CEUBTH2 (for Civil)	L	T	P	CT-1	CT-II	Attendance & Assignments	TOTAL	-	50	01
Subject:	HUMAN VALUES AND ETHICS	1	-	-	20	20	10	50			

COURSE OBJECTIVE:

1. To create an awareness on Engineering Ethics and Human Values.
2. To understand social responsibility of an engineer.
3. To appreciate ethical dilemma while discharging duties in professional life.

COURSE OUTCOME:

On completion of this course, the students will be able to

1. Understand the significance of value inputs in a classroom and start applying them in their life and profession
2. Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.
3. Understand the role of a human being in ensuring harmony in society and nature.
4. Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.

COURSE CONTENT:

UNIT I: Introduction to Value Education

1. Value Education, Definition, Concept and Need for Value Education.
2. The Content and Process of Value Education.
3. Basic Guidelines for Value Education.
4. Self exploration as a means of Value Education.
5. Happiness and Prosperity as parts of Value Education.

UNIT II: Harmony in the Human Being

1. Human Being is more than just the Body.
2. Harmony of the Self ('I') with the Body.
3. Understanding Myself as Co-existence of the Self and the Body.
4. Understanding Needs of the Self and the needs of the Body.
5. Understanding the activities in the Self and the activities in the Body.

UNIT III: Harmony in the Family and Society and Harmony in the Nature

1. Family as a basic unit of Human Interaction and Values in Relationships.
2. The Basics for Respect and today's Crisis: Affection, e. Guidance, Reverence, Glory, Gratitude and Love.
3. Comprehensive Human Goal: The Five Dimensions of Human Endeavour.
4. Harmony in Nature: The Four Orders in Nature.
5. The Holistic Perception of Harmony in Existence.

UNIT IV: Social Ethics

1. The Basics for Ethical Human Conduct.
2. Defects in Ethical Human Conduct.
3. Holistic Alternative and Universal Order.
4. Human Rights violation and Social Disparities.

UNIT V: Professional Ethics

1. Value based Life and Profession.
2. Professional Ethics and Right Understanding.
3. Competence in Professional Ethics.
4. Issues in Professional Ethics – The Current Scenario.
5. Vision for Holistic Technologies, Production System and Management Models.

TEXT BOOKS

1. A.N.Tripathy, New Age International Publishers, 2003.
2. Bajpai, B. L., New Royal Book Co, Lucknow, Reprinted, 2004
3. Bertrand Russell Human Society in Ethics & Politics

REFERENCE BOOKS

1. Corliss Lamont, Philosophy of Humanism
2. Gaur, R.R., Sangal, R., Bagaria, G.P., A Foundation Course in Value Education, Excel Books, 2009.
3. Gaur, R.R., Sangal, R., Bagaria, G.P., Teachers Manual Excel Books, 2009.
4. I.C. Sharma, Ethical Philosophy of India Nagin & co Juhundhar
5. Mortimer, J. Adler, – Whatman has made of man
6. William Lilly Introduction to Ethic Allied Publisher

Course Outcomes and their mapping with Programme Outcomes: HUMAN VALUES AND ETHICS
(MEUBTH2 (for Mech), CHUBTH2 (for Chem), IPUBTH2 (for IPE) and CEUBTH2 (for Civil))

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1								3	3						
CO2								3	3						
CO3								3	3						
CO4								3	3						

गुरु घासीदास विश्वविद्यालय
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कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya
(A Central University Established by the Central Universities Act 2009 No. 25 of 2009)
Koni, Bilaspur – 495009 (C.G.)