

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

Teaching and Examination Scheme-2024-25

B.Tech. I Year (Semester I & II)

Sr. No.	SEM.	Course Code	Course Name	Category	Teaching Scheme			Exam Hrs.	Marks			Credit
					L	T	P		CIE	SEE	Total	
1	I	MAUL101	Engineering Mathematics-I	BSC	3	1	0	3	40	60	100	4
2	I	PHUL101/CHUL101	Engineering Physics/Engineering Chemistry	BSC	3	1	0	3	40	60	100	4
3	I	HSUL101/HSUL102	Communication Skills/Universal Human Values	HSMC	2	0	0	3	40	60	100	2
4	I	CSUL101	Computational Thinking and Programming	ESC	2	0	0	3	40	60	100	2
5	I	EEUL101	Basic Electrical & Electronics Engineering (CSE/IT/CSE(DS)/CSE(AI)/CSE(IOT)/ME/CE)	ESC	2	0	0	3	40	60	100	2
		CEUL101	Basic Civil Engineering (EE/ECE/ME)	ESC	2	0	0	3	40	60	100	
		MEUL101	Basic Mechanical Engineering (CSE/IT/CSE(DS)/CSE(AI)/CSE(IOT)/EE/ECE/CE)	ESC	2	0	0	3	40	60	100	
6	I	PHUP120/CHUP120	Engineering Physics Lab/ Engineering Chemistry Lab	BSC	0	0	2	3	60	40	100	1
7	I	HSUP120/HSUP121	Language Lab/ Universal Human Values Lab	HSMC	0	0	2	3	60	40	100	1
8	I	CSUP120	C Programming Lab	ESC	0	0	2	3	60	40	100	1
9	I	EEUP120	Basic Electrical & Electronics Engineering Lab (CSE/IT/CSE(DS)/CSE(AI)/CSE(IOT)/ME/CE)	ESC	0	0	2	3	60	40	100	1
		CEUP120	Basic Civil Engineering Lab (EE/ECE/ME)	ESC	0	0	2	3	60	40	100	
		MEUP120	Manufacturing Practice Workshop (CSE/IT/CSE(DS)/CSE(AI)/CSE(IOT)/EE/ECE/CE)	ESC	0	0	2	3	60	40	100	
10	I	MEUP121/ MEUP122	Computer Aided Engineering Graphics/Computer Aided Machine Drawing	ESC	0	0	3	3	60	40	100	1.5
11	I	XXUA100	Social Outreach, Discipline and Extra-Curricular Activities (SODECA)	SODECA	-	-	0.5	-	-	-	-	0.5
12	I	NU99.X	Audit Course	NC	-	-	-	3	40	60	100	0
									Total Credit			20

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Sr. No.	SEM.	Course Code	Course Name	Category	Teaching Scheme			Exam Hrs.	Marks			Credit
					L	T	P		CIE	SEE	Total	
1	II	MAUL201	Engineering Mathematics-II	BSC	3	1	0	3	40	60	100	4
2	II	PHUL201/CHUL201	Engineering Physics/Engineering Chemistry	BSC	3	1	0	3	40	60	100	4
3	II	HSUL201/HSUL202	Communication Skills/Universal Human Values	HSMC	2	0	0	3	40	60	100	2
4	II	HSUL203	Innovation & Entrepreneurship	HSMC	1	0	0	3	40	60	100	1
5	II	CSUL201	Problem Solving using Object Oriented Paradigm	ESC	2	0	0	3	40	60	100	2
6	II	EEUL201	Basic Electrical & Electronics Engineering (CSE/IT/CSE(DS)/CSE(AI)/CSE(IOT)/ME/CE)	ESC	2	0	0	3	40	60	100	2
		CEUL201	Basic Civil Engineering (EE/ECE/ME)	ESC	2	0	0	3	40	60	100	
		MEUL201	Basic Mechanical Engineering (CSE/IT/CSE(DS)/CSE(AI)/CSE(IOT)/EE/ECE/CE)	ESC	2	0	0	3	40	60	100	
7	II	PHUP220/CHUP220	Engineering Physics Lab/ Engineering Chemistry Lab	BSC	0	0	2	3	60	40	100	1
8	II	HSUP220/HSUP221	Language Lab/ Universal Human Values Lab	HSMC	0	0	2	3	60	40	100	1
9	II	CSUP220	Object Oriented Programming Lab	ESC	0	0	2	3	60	40	100	1
10	II	EEUP220	Basic Electrical & Electronics Engineering Lab (CSE/IT/CSE(DS)/CSE(AI)/CSE(IOT)/ME/CE)	ESC	0	0	2	3	60	40	100	1
		CEUP220	Basic Civil Engineering Lab (EE/ECE/ME)	ESC	0	0	2	3	60	40	100	
		MEUP220	Manufacturing Practice Workshop (CSE/IT/CSE(DS)/CSE(AI)/CSE(IOT)/EE/ECE/CE)	ESC	0	0	2	3	60	40	100	
11	II	MEUP221/ MEUP222	Computer Aided Engineering Graphics/Computer Aided Machine Drawing	ESC	0	0	3	3	60	40	100	1.5
12	II	XXUA200	Social Outreach, Discipline and Extra-Curricular Activities (SODECA)	SODECA	-	-	0.5	-	-	-	-	0.5
13	I	NU99.X	Audit Course		-	-	-	3	40	60	100	0
									Total Credit			21



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Syllabus

Name of the Programme: B.Tech.	Year: I	Semester: I/II
Course Name: Universal Human Values	Course Code: HSUL102/ HSUL202	Credit: 2
Max Marks: 100	CIE: 40	SEE: 60
End Term Exam Time: 3 Hrs	Teaching Scheme: 2L+0T+0P	

Module No.	Contents	Hours
1	Introduction: Objective, Scope, Outcome of the Course and Prerequisite	1
2	<u>UNIT I: NEED, BASIC GUIDELINES, CONTENT AND PROCESS</u> I. Value Education II. Self-Exploration-Its content and process; 'Natural Acceptance' and Experiential Validation-as the process for self-exploration III. Basic Human Aspirations (Happiness and Prosperity); Requirements for fulfilling the aspirations (Right understanding, Relationship and Physical Facility) IV. Understanding Happiness and Prosperity -A critical appraisal of the current scenario	5
3	<u>UNDERSTANDING HARMONY AT ALL THE LEVELS: INDIVIDUAL, FAMILY AND SOCIETY</u> <u>Harmony in Myself</u> •Understanding human being as a co-existence of the sentient 'I' and the material 'Body' •Understanding the needs of Self ('I') and 'Body' -happiness and physical facility •Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer) • Sanyam and Swasthaya; correct appraisal of Physical needs and Programs to ensure Sanyam and Health. <u>Harmony in Family and Society</u> • Understanding values in human-human relationship; Justice and program for its fulfillment to ensure mutual happiness; Trust- Intention and Competence; Respect- meaning, difference between respect and differentiation; other salient values in relationship •Understanding harmony in the society : Relationship, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals •Understanding the concept of undivided society	6
4	<u>ENGINEERING ETHICS</u> • Senses of Engineering Ethics (Normative and Descriptive); Types of inquiry – Normative inquiries, Conceptual inquiries, Factual or descriptive inquiries • Significance of Ethical Theories- Kohlberg's theory , Gilligan's theory • Moral dilemmas- Types of complexities/ dilemmas, Strategy to resolve dilemmas	6



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5	<u>GLOBAL ISSUES</u> <ul style="list-style-type: none">• Multinational Corporations : Technology Transfer and Appropriate Technology; Case Study: Bhopal Gas Tragedy• Environmental Ethics: Four Orders of Nature; Case Study: Tehri Dam, Uttrakhand, Amazon Forest Fire• Computer Ethics: The Internet and Free Speech; The Issue of Privacy	6
6	<u>VALUE BASED LITERATURE</u> <ul style="list-style-type: none">• Sir Francis Bacon: Of Revenge• Readings from Mahatma Gandhi: Self- Discipline• City and Village- Essay by Tagore	6
Total		30

Text Books:

1. Foundation Course in Human Values and Professional Ethics by R.R. Gaur, R. Sangal, G.P. Bagaria Excel Books, Edition-2010

Reference Books:

1. A Text Book on Professional Ethics and Human Values by R.S. Naagarazan, New Age International Pvt. Ltd, Edition-2017
2. Professional Ethics and Human Values by Govindrajan M. Prentice Hall India Learning Pvt. Ltd, Edition-2013

Prerequisite:

1. Course Introduction- Need, Basic guidelines, content and process for Value Education Fundamentals of Human Values
 - 1) Understanding of moral and ethical values
 - 2) Understanding of cultural values
 - 3) Understanding of family values and traditions
 - 4) Understanding of the true essence of happiness



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2. Understanding Harmony in the Family and Society- Harmony in Human Human Relationship

1. General understanding of Harmony
2. Preliminary knowledge of Role of family in shaping the personality
3. Preliminary knowledge of Role of Society in shaping the personality
4. Basic knowledge of concept of truth, trust, love, Justice etc.

3. Implications of the above Holistic Understanding of Harmony on Professional Ethics. Natural Acceptance of Human Values

1. Basic knowledge about Emotional Intelligence.
2. Awareness of humanistic education and Universal order
3. Basic knowledge about Professional ethics.
4. Knowledge of basic concept of technology and management system
5. Basic knowledge of the factors causing disharmony in nature