

Professional Ethics Program

PROFESSIONAL ETHICS

B.Tech. III Year I Sem.
Course Code: MC500HS

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Course Objective: To enable the students to imbibe and internalize the Values and Ethical Behaviour in the personal and Professional lives.

Course Outcome: The students will understand the importance of Values and Ethics in their personal lives and professional careers. The students will learn the rights and responsibilities as an employee, team member and a global citizen.

UNIT - I

Introduction to Professional Ethics: Basic Concepts, Governing Ethics, Personal & Professional Ethics, Ethical Dilemmas, Life Skills, Emotional Intelligence, Thoughts of Ethics, Value Education, Dimensions of Ethics, Profession and professionalism, Professional Associations, Professional Risks, Professional Accountabilities, Professional Success, Ethics and Profession.

UNIT - II

Basic Theories: Basic Ethical Principles, Moral Developments, Deontology, Utilitarianism, Virtue Theory, Rights Theory, Casuist Theory, Moral Absolution, Moral Rationalism, Moral Pluralism, Ethical Egoism, Feminist Consequentialism, Moral Issues, Moral Dilemmas, Moral Autonomy.

UNIT - III

Professional Practices in Engineering: Professions and Norms of Professional Conduct, Norms of Professional Conduct vs. Profession; Responsibilities, Obligations and Moral Values in Professional Ethics, Professional codes of ethics, the limits of predictability and responsibilities of the engineering profession.

Central Responsibilities of Engineers - The Centrality of Responsibilities of Professional Ethics; lessons from 1979 American Airlines DC-10 Crash and Kansas City Hyatt Regency Walk away Collapse.

UNIT - IV

Work Place Rights & Responsibilities, Ethics in changing domains of Research, Engineers and Managers; Organizational Complaint Procedure, difference of Professional Judgment within the Nuclear Regulatory Commission (NRC), the Hanford Nuclear Reservation.

Ethics in changing domains of research - The US government wide definition of research misconduct, research misconduct distinguished from mistakes and errors, recent history of attention to research misconduct, the emerging emphasis on understanding and fostering responsible conduct, responsible authorship, reviewing & editing.

UNIT - V

Global issues in Professional Ethics: Introduction – Current Scenario, Technology Globalization of MNCs, International Trade, World Summits, Issues, Business Ethics and Corporate Governance, Sustainable Development Ecosystem, Energy Concerns, Ozone Deflection, Pollution, Ethics in Manufacturing and Marketing, Media Ethics; War Ethics; Bio Ethics, Intellectual Property Rights.



S. Subramanian

PRINCIPAL Page 14 of 33

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TEXT BOOKS:

1. Professional Ethics: R. Subramanian, Oxford University Press, 2015.
2. Ethics in Engineering Practice & Research, Caroline Whitbeck, 2e, Cambridge University Press 2015.

REFERENCES:

1. Engineering Ethics, Concepts Cases : Charles E Harris Jr., Michael S Pritchard , Michael J Rabins, 4e , Cengage learning, 2015.
2. Business Ethics concepts & Cases: Manuel G Velasquez, 6e, PHI, 2008.



A handwritten signature in green ink, appearing to read "S. Subramanian".

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REV - 2

Date:15-07-2019

III B-Tech I Semester							ROOM NO:417		
DAY/TIME	1 8:45-9:35	2 9:35-10:25	10.25- 10.40	3 10:40-11:30	4 11:30-12:20	12:20- 1:00	5 1:00 - 1:50	6 1:50 - 2:40	7 2:40 - 3:30
MON	CT	DRCS	BREAK	CRT		LUNCH	CT/GIS/ H&HM LAB		
TUE	DRCS	NT		FOM	Technical Seminar		WRE	DRCS (Tutorial)	CT
WED	WRE	PE		CT	DRCS		FOM	WRE	NT
THU	NT	DRCS		FOM	CT		NT	WRE	FOM
FRI	FOM	WRE		NT	CT (Tutorial)		CT/GIS/ H&HM LAB		
SAT	CT/GIS/ H&HM LAB			CT/GIS/ H&HM	IP		PE	Library/Sports	
S.No	Subject Code	Theory /Lab			Faculty Name				
1	CE501PC	Concrete Technology			Mr. V. Kastro Kiran				
2	CE502PC	Design of Reinforced Concrete Structures			Mrs. B. Lavanyana/Dr. M. Karthikeyan				
3	CE503PC	Water Resources Engineering			Ms. Praga Shahdeo				
4	SM504MS	Fundamentals of Management			Mr. R. Srinivasa Reddy				
5	EF513OE	Nanotechnology (Open Elective -I)			J.A. Kiran				
6	CE505PC	Concrete Technology Lab			Mrs. B. Lavanyana/V. Kastro Kiran				
7	CE506PC	Geographical Information Systems Lab			Ms. Praga Shahdeo				
8	CE507PC	Hydraulics and Hydraulic Machinery Lab			B. Neethu/M. Jayaram				
9	*MC500HS	Professional Ethics			K. Chandrashekar				
10		Technical Seminar			Ms. Praga Shahdeo/Mr. B. Mahesh				



Shubarna S
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VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE

Department of

Basic Sciences and Humanities

VIGNAN HILLS, DESHMUKHI VILLAGE, POCHAMPALLY

(MANDAL)

Yadadri Bhuvanagiri (DISTRICT) - 508284

COURSE FILE

**Human Values &
Professional Ethics**



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Human Values & Professional Ethics

Objectives:

To help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of All human beings.

To facilitate the development of a Holistic perspective among students towards life, Profession and happiness, based on a correct understanding of the Human reality and the Rest of existence. Such a holistic perspective forms the basis of Value based living in a Natural way.

To highlight plausible implications of such a Holistic understanding in terms of ethical Human conduct, trustful and mutually satisfying human behavior and mutually enriching Interaction with Nature.



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SYLLABUS:

UNIT - I:

Course Introduction - Need, basic Guidelines, Content and Process for Value Education:

Understanding the need, basic guidelines, content and process for Value Education. Self

Exploration - what is it? - its content and process; 'Natural Acceptance' and Experiential

Validation - as the mechanism for self exploration. Continuous Happiness and Prosperity - A

look at basic Human Aspirations. Right understanding, Relationship and Physical Facilities - the basic requirements for fulfillment of aspirations of every human being with their correct priority.

Understanding Happiness and Prosperity correctly - A critical appraisal of the current scenario.

Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

UNIT - II:

Understanding Harmony in the Human Being - Harmony in Myself! : Understanding human

being as a co-existence of the sentient 'I' and the material 'Body'. Understanding the needs of Self

('I') and 'Body' - Sukh and Suvidha. Understanding the Body as an instrument of 'I' (I being the

doer, seer and enjoyer). Understanding the harmony of I with the Body: Sanyam and Swasthya;

correct appraisal of Physical needs, meaning of Prosperity in detail. Programs to ensure Sanyam and Swasthya.

UNIT - III:

Understanding Harmony in the Family and Society - Harmony in Human - Human

Relationship: Understanding harmony in the Family the basic unit of human interaction.

Understanding values in human - human relationship; meaning of Nyaya and program for its

fulfillment to ensure Ubhay-tripti; Trust (Vishwas) and Respect (Samman) as the

foundational values of relationship. Understanding the meaning of Vishwas; Difference



between intention and competence. Understanding the meaning of Samman, Difference between respect and differentiation; the other salient values in relationship. Understanding the harmony in the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astiva as comprehensive Human Goals. Visualizing a universal harmonious order in society - Undivided Society (Akhand Samaj), Universal Order (Sarvabhaum Vyawastha) - from family to world family!

UNIT - IV:

Understanding Harmony in the nature and Existence - Whole existence as Coexistence:

Understanding the harmony in the Nature. Interconnectedness and mutual fulfillment among the four orders of nature - recyclability and self-regulation in nature. Understanding Existence as Co-existence (Sah-astiva) of mutually interacting units in all-pervasive space. Holistic perception of harmony at all levels of existence.

UNIT - V:

Implications of the above Holistic Understanding of Harmony on Professional

Ethics: Natural acceptance of human values, Definitiveness of Ethical Human Conduct, Basic for Humanistic Education, Humanistic Constitution and Humanistic Universal Order.

Competence in professional ethics:

- a. Ability to utilize the professional competence for augmenting universal human order,
- b. Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems,
- c. Ability to identify and develop appropriate technologies and management patterns for above production systems.

Case studies of typical holistic technologies, management models and production systems.

Strategy for transition from the present state to Universal Human Order.

- a. At the level of individual: as socially and ecologically responsible engineers, technologists and managers

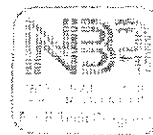


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b. At the level of society: as mutually enriching institutions and organizations.

TEXT BOOKS:

1. R. R. Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professional Ethics.
2. Prof. K. V. Subba Raju, 2013, Success Secrets for Engineering Students, Smart Student Publications, 3rd Edition.

REFERENCE

1. Ivan Illich, 1974, Energy & Equity, The Trinity Press, Worcester, and HarperCollins, USA
2. E. F. Schumacher, 1973, Small is Beautiful: a study of economics as if people mattered. Blond & Briggs, Britain. A Nagraj, 1998 Jeevan Vidya ek Parichay, Divya Path Sansthan, Amarkantak.
3. Susan George, 1976, How the Other Half Dies, Penguin Press, Reprinted 1986, 1991.
4. P. L. Dhar, R. R. Gaur, 1990, Science and Humanism, Commonwealth Publishers.. A. N. Tripathy, 2003, Human Values, New Age International Publishers.
5. Subhas Palekar, 2000, How to practice Natural Farming, Pracheen(Vaidik) Krishi Tantra Shodh, Amravati.
6. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, 1972, Limits to Growth - Club of Rome's report, Universe Books.
7. E G Seebauer & Robert L. Berry, 2000, Fundamentals of Ethics for Scientists & Engineers, Oxford University Press.
8. M Govindrajan, S Natrajan & V. S Senthil kumar, Engineering Ethics (including Humna
9. Values), Eastern Economy Edition, Prentice Hall of India Ltd.

UNIT - I:

Course Introduction - Need, basic Guidelines, Content and Process for Value Education:

Understanding the need, basic guidelines, content and process for Value Education. Self

Exploration - what is it? - its content and process; 'Natural Acceptance' and Experiential

Validation - as the mechanism for self exploration. Continuous Happiness and Prosperity - A

look at basic Human Aspirations. Right understanding, Relationship and Physical Facilities - the

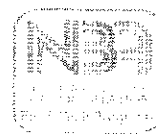


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basic requirements for fulfillment of aspirations of every human being with their correct priority.

Understanding Happiness and Prosperity correctly - A critical appraisal of the current scenario.

Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

LEARNING OBJECTIVES:

1. Understanding the need, basic guidelines, content and process for Value Education
2. Self-Exploration-what is it? - its content and process; 'Natural Acceptance' and Experiential Validation- as the mechanism for self-exploration
3. Continuous Happiness and Prosperity- A look at basic Human Aspirations
4. Right understanding, Relationship and Physical Facilities- the basic requirements for fulfillment of aspirations of every human being with their correct priority
5. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
6. Method to fulfill the above human aspirations: understanding and living in harmony at various levels

LECTURE PLAN:

S No	Topic	Method of teaching	No. of periods	References	Animations ,PPTS, & NPTEL Lectures
1	Understanding Value Education and Need for it	Black board /PPT	1	T1	
2	Basic Guidelines for Value Education, The Content & process of Value Education	Black board /PPT	2	T1	
3	What is Self – Exploration? What is its	Black board	2	T1	

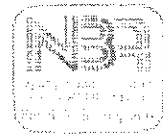


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	Purpose? , Natural acceptance and its need	/PPT			
4	Continuous Happiness and prosperity-Our basic aspirations, Exploring Happiness and prosperity	Black board /PPT	2	T1	
5	What are prevailing notions of happiness and Prosperity? , Why are we in this State of - Living with Wrong Assumptions	Black board /PPT	2	T1	
6	Requirement for fulfillment of human aspirations , Understand and Live in Harmony at all Levels of Living	Black board /PPT	2	T1	
7	Solutions for right Understanding , Our Natural Acceptance for Harmony at all Levels of our Living	Black board /PPT	2	T1	
8	Human and Animal Consciousness , Understanding the Human being as Co-Existence of Self and Body	Black board /PPT	1	T1	
9	Understanding Myself as Co- existence of the self and the body	Black board /PPT	2	T1	



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	Total no. of periods are required to complete the unit		14		
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Two marks Questions:

1. Define need
2. What is Self-Exploration?
3. What are basic guidelines for value education
4. Continuous Happiness and Prosperity-Define this
5. What are prevailing notions of happiness and Prosperity?
6. Briefly write about harmony at various levels.
7. Why are we in this State of - Living with Wrong Assumptions?
8. Difference between Human and Animal Consciousness
9. What is the Co-Existence of Self and Body
10. Name the methods to fulfill the Human aspirations.

Essay Questions:

1. What is the need for Value Education in technical and other professional institutions?
2. What is the difference between belief and understanding?
3. Justify the role of self-exploration as in the process of Value Education?
4. What is Self-Exploration? What is its purpose?
5. Self-exploration is a process of dialogue between „what you are“ and „what you really want to be“- Explain and illustrate.
7. What are pre conditions? What is their source?
8. What is the true essence of happiness and prosperity?
9. Does having physical facilities ensure relationship and right understanding? Justify your
10. Do you feel that you have some pre-conditions? How do you evaluate them?

Fill In The Blanks:

1. _____ is our participation at different levels in the larger order.
2. When we participate in the larger order, this participation at different levels is our
3. The participation of the human being is seen in two forms _____ and _____.
4. _____ are the outcome of _____ and _____.
5. Which are always definite.
By exploring our svatva and living accordingly, we become)_____.
6. Accumulation of wealth is called _____.



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7. _____ helps the human being to transform from (Animal
8. _____ to _____
9. There can only be a _____ change in conscious units.

ANSWERS:

1. Value
2. Behaviour
3. Work
4. Values
5. Svatantra
6. Animal consciousness
7. Right understanding
8. human consciousness
9. Qualitative

UNIT - II:

Understanding Harmony in the Human Being - Harmony in Myself! : Understanding human being as a co-existence of the sentient 'I' and the material 'Body'. Understanding the needs of Self ('I') and 'Body' - Sukh and Suvidha. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer). Understanding the harmony of I with the Body: Sanyam and Swasthya; correct appraisal of Physical needs, meaning of Prosperity in detail. Programs to ensure Sanyam and Swasthya.

LEARNING OBJECTIVES:

1. Understanding human being as a co-existence of the sentient 'I' and the material 'Body'
2. Understanding the needs of Self ('I') and 'Body' - Sukh and Suvidha



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3. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer)
4. Understanding the characteristics and activities of 'I' and harmony in 'I'
5. Understanding the harmony of I with the Body: Sanyam and Swasthya; correct appraisal of Physical needs, meaning of Prosperity in detail
6. Programs to ensure Sanyam and Swasthya

LECTURE PLAN:

S No	Topic	Method of teaching	No. of periods	References	Animations ,PPTS, & NPTEL Lectures
1	Understanding Needs of the self and Needs of the	Black board /PPT	1	T1	
2	Understanding the Self as the Conscious Entity, the body as the Material Entity of Value Education	Black board /PPT	2	T1	
3	Exercise on distinguishing Needs of the Self and Body , Understanding the Body as an Instrument of „I“	Black board /PPT	2	T1	
4	Getting to know the Activities in the Self , The Activities in „I „are Continuous ,	Black board /PPT	2	T1	
5	What is the Problem today? Effects of it and	Black	2	T1	

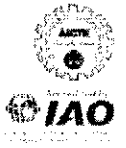


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	the solution for it	board /PPT			
6	Result of Realization and Understanding –Living with Definiteness.	Black board /PPT	2	T1	
7	A Self – organized unit i.e sanyama and svasthya(„I“ with the body)	Black board /PPT	2	T1	
8	Understanding and Living with Sanyama	Black board /PPT	1	T1	
9	Correct Appraisal of our Physical needs	Black board /PPT	2	T1	
	Total no. of periods are required to complete the unit		14		

Two marks Questions:

1. What is Material Entity of Value Education
2. What is the Self as the Conscious Entity
3. Define Body as an Instrument of „I“
4. How & What is the Problem today? Effects of it and the solution for it.
5. Define Living with Definiteness.
6. What is sanyama



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7. What is svasthya
8. Define Appraisal of our Physical needs
9. What is meaning of Prosperity
10. What is sLiving with Sanyama

Essay Questions:

1. Elucidate the self (I) as the conscious entity, the body as the material entity?
2. What are the consequences of confusion between Sukh and Suvidha?
3. "Human being is more than just the Body"- explain?
4. Why are the Physical facilities required? What do you mean by right utilization of Body?
5. Are the activities in „I“ continuous or temporary? Justify your answer.
6. How does realization and understanding lead to definiteness of human conduct?
7. In what way can we say that the human body is a self-organized unit?
8. How is the correct appraisal of our physical needs done?
9. Suggest any two programs that you can undertake to improve the health of your body?
10. How do we go into conflicts when our activities are not guided by one natural Acceptance?

Fill In The Blanks:

1. Knowing“ means having the _____.
2. Each human being is co-existence of the _____.
3. The _____ does not „assume“ things.



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4. _____ is the feeling of responsibility for nurturing, protecting and right
5. utilizing the body. Where there is harmony among the parts of the body, it is known as _____.
6. Sanyama _____ is the basis of _____
7. Sanyam _____ is vital for the _____
8. With the help of the _____, self explores and interact with rest of the nature.
9. The system of the body works in a _____ way.
10. Human body is an instrument to facilitate _____

ANSWERS:

Right understanding

Self (I) and the body

Body

Sanyam

Swasthya

Swasthya

Swasthya

Body

Self organized

Right understanding

UNIT - III:



Understanding Harmony in the Family and Society - Harmony in Human - Human

Relationship: Understanding harmony in the Family the basic unit of human interaction.

Understanding values in human - human relationship; meaning of Nyaya and program for its fulfillment to ensure Ubhay-tripti; Trust (Vishwas) and Respect (Samman) as the

foundational values of relationship. Understanding the meaning of Vishwas; Difference

between intention and competence. Understanding the meaning of Samman, Difference between

respect and differentiation; the other salient values in relationship. Understanding the harmony in

the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astiva as

comprehensive Human Goals. Visualizing a universal harmonious order in society - Undivided

Society (Akhand Samaj), Universal Order (Sarvabhaum Vyawastha) - from family to world

family!

LEARNING OBJECTIVES:

1. Understanding the meaning of Vishwas; Difference between intention and competence
2. Understanding the meaning of Samman, Difference between respect and differentiation; the other salient values in relationship
3. Understanding the harmony in the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astitva as comprehensive Human Goals
4. Visualizing a universal harmonious order in society- Undivided Society (Akhand Samaj), Universal Order (Sarvabhaum Vyawastha)- from family to world family!

LECTURE PLAN:

S No	Topic	Method of teaching	No. of periods	References	Animations ,PPTS, & NPTEL Lectures
1	Understanding Values in Human Relationships, Family as the basic Unit of Human Interaction Values in human	Black board /PPT	1	T1	

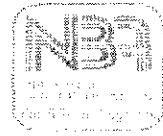


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	Relationships				
2	Trust, respect, the Basis for Respect, Assumed Bases for Respect today	Black board /PPT	2	T1	
3	Difference between „Attention“ and Respect. What is the way out? Affection	Black board /PPT	2	T1	
4	Care, Guidance, Reverence, Glory, Gratitude, Love, Harmony from Family to World Family: Undivided Society	Black board /PPT	2	T1	
5	What are prevailing notions of happiness and Prosperity? , Why are we in this State of - Living with Wrong Assumptions	Black board /PPT	2	T1	
6	Extending Relationship from family to society	Black board /PPT	2	T1	
7	Identification of the Comprehensive Human Goal	Black board /PPT	2	T1	
8	Programs needed to achieve the Comprehensive Human Goal: The Five Dimensions of Human Endeavour	Black board /PPT	1	T1	



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9	Education-Right Living, Health-Selfregulations, Justice – Preservation, Production – Work ,Exchange – Storage, What is our State today?	Black board /PPT	2	T1	
	Total no. of periods are required to complete the unit		14		

Two marks Questions:

1. Define Human Relationships.
2. Define Family as the basic Unit of Human
3. What is Harmony in Human?
4. What is meaning of Nyaya
5. Define Ubhay-tripti.
6. Define Trust (Vishwas) and Respect (Samman)
7. Define Samadhan, Samridhi.
8. Define Abhay, Sah-astiva
9. What is Akhand Samaj
10. What is Sarvabhaum Vyavastha

Essay Questions:

- Q.1 The major crisis in today's society is that of Trust and Respect. Elucidate?
- Q.2 What is „Justice“ what are its four elements? Is it a continuous or a temporary need?
- Q.3 How is „Trust“ the foundation values of relationship?
- Q.4 What can be the basis of an undivided society- the „World family“?
- Q.5 Explain the dimensions of human Endeavour in society conducive to manaviya Vyavastha?
- Q.6 Indicate a few feasible steps to promote harmony in the society and co-existence with



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nature.

Q.7 What is the Svabhava (Natural Characteristic) of animal order?

Q.8 What is the meaning of Education and Sanskara? How does Sanskara follow education?

Q.9 Write a note on "Recyclability and Self – regulation in nature.

Q.10 Explain the term „Anu – Sangita”.

Fill In The Blanks:

1. The participation of the human being in ensuring the role of physical facility in nurture, protection and providing means for the body is called its _____.
2. The participation of the human being in ensuring the role of physical facility to help and preserve its utility is called its _____.
3. Between every two units there is _____.
4. When nature is submerged in space we call it _____.
5. Nature is (Limited)_____ and while space is _____ in size.
6. When something is active or has activity, we call it a _____.
7. Space is constant or _____ energy.
8. There are two kinds of realities in existence: (Space)_____ and (units)_____.
9. Material units have the activities of _____ and _____.
10. Co-existence is when _____ is submerged in _____.

ANSWERS:

1. Utility value
2. Artistic value
3. Space
4. Existence
5. Unlimited
6. Unit



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7. Equilibrium
8. Recognizing and fulfilling
9. Nature and space
10. Space and units

UNIT - IV:

Understanding Harmony in the nature and Existence - Whole existence as Coexistence:

Understanding the harmony in the Nature. Interconnectedness and mutual fulfillment among the four orders of nature - recyclability and self-regulation in nature. Understanding Existence as Co-existence (Sah-astiva) of mutually interacting units in all-pervasive space.

Holistic perception of harmony at all levels of existence.

LEARNING OBJECTIVES:

5. Understanding the harmony in the Nature
6. Interconnectedness and mutual fulfillment among the four orders of nature- recyclability and self-regulation in nature
7. Understanding Existence as Co-existence (Sah-astiva) of mutually interacting units in all-pervasive space
8. Holistic perception of harmony at all levels of existence

LECTURE PLAN:

S No	Topic	Method of teaching	No. of periods	References	Animations ,PPTS, & NPTEL Lectures
1	Harmony from Family order World Family Order : Universal Human	Black board	1	T1	



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	Order Summary	/PPT			
2	The Four Orders in Nature	Black board /PPT	2	T1	
3	Recyclability and self regulation in Nature	Black board /PPT	2	T1	
4	Understanding the Four Orders: Things, Activity, Innateness, Natural Characteristic, Basic Activity, Conformance, and Human Being –Our State today. What is way out?	Black board /PPT	2	T1	
5	Harmony in Existence – Understanding Existence as Co- Existence	Black board /PPT	2	T1	
6	An Introduction to space, Co-existence of Units in Space	Black board /PPT	2	T1	
7	Active and No –activity, Energized and Energy in Equilibrium, Each Unit Recognizes – Space is Reflecting & Transparent, Self – organized, and Self – organization is Available	Black board /PPT	2	T1	
8	Existence is Coexistence, What are we	Black	1	T1	



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	doing today? Where do we want to be?	board /PPT			
9	Values in Different Dimensions of Human Living	Black board /PPT	2	T1	
10	Definitiveness of Ethical Human Conduct, Identification of Svatva leading to svatantrata and svarajya, Development of Human Consciousness	Black board /PPT	2	T1	
	Total no. of periods are required to complete the unit		14		

Two marks Questions:

1. What is Harmony in the nature and Existence?
2. Difference between Whole existences as Coexistence?
3. What is Interconnectedness?
4. Define Things, Activity, Innateness
5. What is Natural Characteristic
6. What are Basic Activity, Conformance
7. What is Identification of Svatva
8. What is all-pervasive space
9. Define Holistic perception
10. What is svatantrata and svarajya

Essay Questions:

1. Differentiate between units and space. How are units self – organized in space?
2. Draw a chart showing in detail, the different categories of units of nature in co-existence



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in space.

3. Nature submerged in space" – explain the term with reference to existence.
4. What do you mean by holistic alternatives? What is the vision for the holistic alternative?
5. Existence= nature submerged in space. Elaborate this point.
6. Differentiate between units and space. How are units self – organized in space?

Fill In The Blanks:

1. The participation of the human being in ensuring the role of physical facility in nurture, protection and providing means for the body is called its _____.
2. The participation of the human being in ensuring the role of physical facility to help and preserve its utility is called its _____.
3. Between every two units there is _____.
4. When nature is submerged in space we call it _____.
5. Nature is _____ and while space is _____ in size.
6. When something is active or has activity, we call it a _____.
7. Space is constant or _____ energy.
8. There are two kinds of realities in existence: _____ and _____.
9. Material units have the activities of _____ and _____.
10. The first order of nature is _____.

ANSWERS:

1. Utility value
2. Artistic value
3. Space
4. Existence
5. Limited, unlimited



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6. Unit
7. Equilibrium
8. Space, Unit
9. Recognizing, fulfilling
10. Material order

UNIT - V:

Implications of the above Holistic Understanding of Harmony on Professional Ethics: Natural acceptance of human values, Definitiveness of Ethical Human Conduct, Basic for Humanistic Education, Humanistic Constitution and Humanistic Universal Order.

Competence in professional ethics:

- a. Ability to utilize the professional competence for augmenting universal human order,
- b. Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems,
- c. Ability to identify and develop appropriate technologies and management patterns for above production systems.

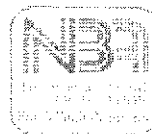


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Case studies of typical holistic technologies, management models and production systems.

Strategy for transition from the present state to Universal Human Order.

- a. At the level of individual: as socially and ecologically responsible engineers, technologists and managers
- b. At the level of society: as mutually enriching institutions and organizations.

LEARNING OBJECTIVES:

1. Natural acceptance of human values
2. Definitiveness of Ethical Human Conduct
3. Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order
Competence in professional ethics:
 - a) Ability to utilize the professional competence for augmenting universal human order,
 - b) Ability to identify the scope and characteristics of people-friendly and eco- friendly production systems,
 - c) Ability to identify and develop appropriate technologies and management patterns for above production systems.
4. Case studies of typical holistic technologies, management models and production systems
5. Strategy for transition from the present state to Universal Human Order:
 - a) At the level of individual: as socially and ecologically responsible engineers, technologists and managers
 - b) At the level of society: as mutually enriching institutions and organizations

LECTURE PLAN:

S No	Topic	Method of teaching	No. of periods	References	Animations ,PPTS, & NPTEL Lectures
1	Identification of Comprehensive Human Goal , Basis for Humanistic Education and	Black board	1	T1	



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	Humanistic Constitution	/PPT			
2	Ensuring Competence in professional Ethics	Black board /PPT	2	T1	
3	Issues in Professional Ethics-The Current Scenario, The Holistic Criteria for Evaluation	Black board /PPT	2	T1	
4	A critical Appraisal of the Prevailing Systems , Learning from the systems in Nature and Traditional Practices	Black board /PPT	2	T1	
5	Holistic Technologies and Systems-Typical Case Studies	Black board /PPT	2	T1	
6	Appreciating the Need for self – Exploration Facilitating the Understanding of Harmony at various Levels	Black board /PPT	2	T1	
8	Steps for Evolution at the Individual Level, Steps for Transition at the Level of Family, Society and profession, Promoting Mass Awareness and moving towards Humanistic Education	Black board /PPT	1	T1	
9	Evolving Holistic Models of Living Amending Policies, Programs and social Systems in tune	Black board	2	T1	



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	with Comprehensive Human Goal	/PPT			
10	Is the Transition too Difficult? Concluding Remarks	Black board /PPT	2	T1	
	Total no. of periods are required to complete the unit		14		

Two marks Questions:

1. Define Professional Ethics
2. Define Natural acceptance of human values
3. What is Definitiveness of Ethical Human Conduct
4. What is Humanistic Constitution
5. Define Ethical Human Conduct
6. What is Competence in professional ethics
7. What is augmenting universal human order.
8. Define People friendly production system
9. Define Eco friendly production system
10. define Comprehensive Human Goal

ESSAY QUESTIONS

1. Differentiate between units and space. How are units self – organized in space?
2. Draw a chart showing in detail, the different categories of units of nature in co-existence in space.
3. “Nature submerged in space” – explain the term with reference to existence.
4. What do you mean by holistic alternatives? What is the vision for the holistic alternative?
5. Explain the term „Competence” in professional ethics. Mention a few steps you may take to promote ethics among your colleagues among



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6. whom unethical practices prevail?

FILL IN THE BLANKS:

1. The definitiveness of human conduct in terms of values, policies and character is termed as _____.
2. Developing ethical competence in the profession is the only effective way to ensure _____.
3. The term ethics has been taken from the Greek word _____ which means character.
4. _____ are considered the moral standards by which people judge behaviour.
5. _____ is the implication of _____ in _____.
6. Comprehensive human goal consists of _____, _____, _____, and _____.
7. Holistic production systems are eco-friendly and _____.

ANSWERS:

1. Ethics
2. Professional ethics
3. Ethos
4. Ethics
5. Professional ethics , right understanding profession
6. Samadhan samridhi abhay seh-astitva
7. people - friendly

MC500HS: PROFESSIONAL ETHICS**B.Tech. III Year I Sem.**

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Course Objective: To enable the students to imbibe and internalize the Values and Ethical Behaviour in the personal and Professional lives.

Course Outcome: The students will understand the importance of Values and Ethics in their personal lives and professional careers. The students will learn the rights and responsibilities as an employee, team member and a global citizen.

UNIT - I

Introduction to Professional Ethics: Basic Concepts, Governing Ethics, Personal & Professional Ethics, Ethical Dilemmas, Life Skills, Emotional Intelligence, Thoughts of Ethics, Value Education, Dimensions of Ethics, Profession and professionalism, Professional Associations, Professional Risks, Professional Accountabilities, Professional Success, Ethics and Profession.

UNIT - II

Basic Theories: Basic Ethical Principles, Moral Developments, Deontology, Utilitarianism, Virtue Theory, Rights Theory, Casuist Theory, Moral Absolution, Moral Rationalism, Moral Pluralism, Ethical Egoism, Feminist Consequentialism, Moral Issues, Moral Dilemmas, Moral Autonomy.

UNIT - III

Professional Practices in Engineering: Professions and Norms of Professional Conduct, Norms of Professional Conduct vs. Profession; Responsibilities, Obligations and Moral Values in Professional Ethics, Professional codes of ethics, the limits of predictability and responsibilities of the engineering profession.

Central Responsibilities of Engineers - The Centrality of Responsibilities of Professional Ethics; lessons from 1979 American Airlines DC-10 Crash and Kansas City Hyatt Regency Walk away Collapse.

UNIT - IV

Work Place Rights & Responsibilities, Ethics in changing domains of Research, Engineers and Managers; Organizational Complaint Procedure, difference of Professional Judgment within the Nuclear Regulatory Commission (NRC), the Hanford Nuclear Reservation.

Ethics in changing domains of research - The US government wide definition of research misconduct, research misconduct distinguished from mistakes and errors, recent history of attention to research misconduct, the emerging emphasis on understanding and fostering responsible conduct, responsible authorship, reviewing & editing.

UNIT - V

Global issues in Professional Ethics: Introduction – Current Scenario, Technology Globalization of MNCs, International Trade, World Summits, Issues, Business Ethics and Corporate Governance, Sustainable Development Ecosystem, Energy Concerns, Ozone Deflection, Pollution, Ethics in Manufacturing and Marketing, Media Ethics; War Ethics; Bio Ethics, Intellectual Property Rights.

TEXT BOOKS:

1. Professional Ethics: R. Subramanian, Oxford University Press, 2015.
2. Ethics in Engineering Practice & Research, Caroline Whitbeck, 2e, Cambridge University Press 2015.

REFERENCES:

1. Engineering Ethics, Concepts Cases: Charles E Harris Jr., Michael S Pritchard, Michael J Rabins, 4e , Cengage learning, 2015.
2. Business Ethics concepts & Cases: Manuel G Velasquez, 6e, PHI, 2008.



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Department of

Basic Sciences and Humanities

VIGNAN HILLS, DESHMUKHI VILLAGE, POCHAMPALLY

(MANDAL)

Yadadri Bhuvanagiri (DISTRICT) - 508284

COURSE FILE

Human Values &

Professional Ethics



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Human Values & Professional Ethics

Objectives:

To help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of All human beings.

To facilitate the development of a Holistic perspective among students towards life, Profession and happiness, based on a correct understanding of the Human reality and the Rest of existence. Such a holistic perspective forms the basis of Value based living in a Natural way.

To highlight plausible implications of such a Holistic understanding in terms of ethical Human conduct, trustful and mutually satisfying human behavior and mutually enriching Interaction with Nature.



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SYLLABUS:

UNIT - I:

Course Introduction - Need, basic Guidelines, Content and Process for Value Education:

Understanding the need, basic guidelines, content and process for Value Education. Self

Exploration - what is it? - its content and process; 'Natural Acceptance' and Experiential

Validation - as the mechanism for self exploration. Continuous Happiness and Prosperity - A

look at basic Human Aspirations. Right understanding, Relationship and Physical Facilities - the basic requirements for fulfillment of aspirations of every human being with their correct priority.

Understanding Happiness and Prosperity correctly - A critical appraisal of the current scenario.

Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

UNIT - II:

Understanding Harmony in the Human Being - Harmony in Myself! : Understanding human

being as a co-existence of the sentient 'I' and the material 'Body'. Understanding the needs of Self

('I') and 'Body' - Sukh and Suvidha. Understanding the Body as an instrument of 'I' (I being the

doer, seer and enjoyer). Understanding the harmony of I with the Body: Sanyam and Swasthya;

correct appraisal of Physical needs, meaning of Prosperity in detail. Programs to ensure Sanyam and Swasthya.

UNIT - III:

Understanding Harmony in the Family and Society - Harmony in Human - Human

Relationship: Understanding harmony in the Family the basic unit of human interaction.



Understanding values in human - human relationship; meaning of Nyaya and program for its fulfillment to ensure Ubhay-tripti; Trust (Vishwas) and Respect (Samman) as the foundational values of relationship. Understanding the meaning of Vishwas; Difference between intention and competence. Understanding the meaning of Samman, Difference between respect and differentiation; the other salient values in relationship. Understanding the harmony in the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astiva as comprehensive Human Goals. Visualizing a universal harmonious order in society - Undivided Society (Akhand Samaj), Universal Order (Sarvabhaum Vyawastha) - from family to world family!

UNIT - IV:

Understanding Harmony in the nature and Existence - Whole existence as Coexistence:

Understanding the harmony in the Nature. Interconnectedness and mutual fulfillment among the four orders of nature - recyclability and self-regulation in nature. Understanding Existence as Co-existence (Sah-astiva) of mutually interacting units in all-pervasive space. Holistic perception of harmony at all levels of existence.

UNIT - V:

Implications of the above Holistic Understanding of Harmony on Professional

Ethics: Natural acceptance of human values, Definitiveness of Ethical Human Conduct, Basic for Humanistic Education, Humanistic Constitution and Humanistic Universal Order.

Competence in professional ethics:

- a. Ability to utilize the professional competence for augmenting universal human order,
- b. Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems,
- c. Ability to identify and develop appropriate technologies and management patterns for above production systems.

Case studies of typical holistic technologies, management models and production systems.



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Strategy for transition from the present state to Universal Human Order.

- a. At the level of individual: as socially and ecologically responsible engineers, technologists and managers
- b. At the level of society: as mutually enriching institutions and organizations.

TEXT BOOKS:

1. R. R. Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professional Ethics.
2. Prof. K. V. Subba Raju, 2013, Success Secrets for Engineering Students, Smart Student Publications, 3rd Edition.

REFERENCE

1. Ivan Illich, 1974, Energy & Equity, The Trinity Press, Worcester, and HarperCollins, USA
2. E. F. Schumaner, 1973, Small is Beautiful: a study of economics as if people mattered. Blond & Briggs, Britain. A Nagraj, 1998 Jeevan Vidya ek Parichay, Divya Path Sansthan, Amarkantak.
3. Sussan George, 1976, How the Other Half Dies, Penguin Press, Reprinted 1986, 1991.
4. P. L. Dhar, R. R. Gaur, 1990, Science and Humanism, Commonwealth Publishers.. A. N. Tripathy, 2003, Human Values, New Age International Publishers.
5. Subhas Palekar, 2000, How to practice Natural Farming, Pracheen(Vaidik) Krishi Tantra Shodh, Amravati.
6. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, 1972, Limits to Growth - Club of Rome's report, Universe Books.
7. E G Seebauer & Robert L.Berry, 2000, Fundamentals of Ethics for Scientists & Engineers, Oxford University Press.
8. M Govindrajan, S Natrajan & V. S Senthil kumar, Engineering Ethics (including Humna
9. Values), Eastern Economy Edition, Prentice Hall of India Ltd.

UNIT - I:

Course Introduction - Need, basic Guidelines, Content and Process for Value Education:

Understanding the need, basic guidelines, content and process for Value Education. Self



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Exploration - what is it? - its content and process; 'Natural Acceptance' and Experiential

Validation - as the mechanism for self exploration. Continuous Happiness and Prosperity - A

look at basic Human Aspirations. Right understanding, Relationship and Physical Facilities - the basic requirements for fulfillment of aspirations of every human being with their correct priority.

Understanding Happiness and Prosperity correctly - A critical appraisal of the current scenario.

Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

LEARNING OBJECTIVES:

1. Understanding the need, basic guidelines, content and process for Value Education
2. Self-Exploration-what is it? - its content and process; 'Natural Acceptance' and Experiential Validation- as the mechanism for self-exploration
3. Continuous Happiness and Prosperity- A look at basic Human Aspirations
4. Right understanding, Relationship and Physical Facilities- the basic requirements for fulfillment of aspirations of every human being with their correct priority
5. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
6. Method to fulfill the above human aspirations: understanding and living in harmony at various levels

LECTURE PLAN:

S No	Topic	Method of teaching	No. of periods	References	Animations ,PPTS, & NPTEL Lectures
1	Understanding Value Education and Need for it	Black board /PPT	1	T1	
2	Basic Guidelines for Value Education, The Content & process	Black board /PPT	2	T1	



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	of Value Education				
3	What is Self-- Exploration? What is its Purpose? , Natural acceptance and its need	Black board /PPT	2	T1	
4	Continuous Happiness and prosperity-Our basic aspirations, Exploring Happiness and prosperity	Black board /PPT	2	T1	
5	What are prevailing notions of happiness and Prosperity? , Why are we in this State of - Living with Wrong Assumptions	Black board /PPT	2	T1	
6	Requirement for fulfillment of human aspirations , Understand and Live in Harmony at all Levels of Living	Black board /PPT	2	T1	
7	Solutions for right Understanding , Our Natural Acceptance for Harmony at all Levels of our Living	Black board /PPT	2	T1	
8	Human and Animal Consciousness , Understanding the Human being as Co- Existence of Self and Body	Black board /PPT	1	T1	



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9	Understanding Myself as Co- existence of the self and the body	Black board /PPT	2	T1	
	Total no. of periods are required to complete the unit		14		

Two marks Questions:

1. Define need
2. What is Self-Exploration?
3. What are basic guidelines for value education
4. Continuous Happiness and Prosperity-Define this
5. What are prevailing notions of happiness and Prosperity?
6. Briefly write about harmony at various levels.
7. Why are we in this State of - Living with Wrong Assumptions?
8. Difference between Human and Animal Consciousness
9. What is the Co-Existence of Self and Body
10. Name the methods to fulfill the Human aspirations.

Essay Questions:

1. What is the need for Value Education in technical and other professional institutions?
2. What is the difference between belief and understanding?
3. Justify the role of self-exploration as in the process of Value Education?
4. What is Self-Exploration? What is its purpose?
5. Self-exploration is a process of dialogue between „what you are“ and „what you really
6. Want to be“- Explain and illustrate.
7. What are pre conditions? What is their source?
8. What is the true essence of happiness and prosperity?
9. Does having physical facilities ensure relationship and right understanding? Justify your
10. Do you feel that you have some pre-conditions? How do you evaluate them?

Fill In The Blanks:

1. _____ is our participation at different levels in the larger order.
2. When we participate in the larger order, this participation at different levels is our
3. The participation of the human being is seen in two forms _____ and _____.



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4. _____ are the outcome of _____ and _____.
5. Which are always definite.
By exploring our svatva and living accordingly, we become)_____.
6. Accumulation of wealth is called _____.
7. _____ helps the human being to transform from (Animal
8. _____ to _____
9. There can only be a _____ change in conscious units.

ANSWERS:

1. Value
2. Behaviour
3. Work
4. Values
5. Svatanttra
6. Animal consciousness
7. Right understanding
8. human consciousness
9. Qualitative

UNIT - II:

Understanding Harmony in the Human Being - Harmony in Myself! : Understanding human being as a co-existence of the sentient 'I' and the material 'Body'. Understanding the needs of Self ('I') and 'Body' - Sukh and Suvidha. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer). Understanding the harmony of I with the Body: Sanyam and Swasthya; correct appraisal of Physical needs, meaning of Prosperity in detail. Programs to ensure Sanyam and Swasthya.

LEARNING OBJECTIVES:



1. Understanding human being as a co-existence of the sentient 'I' and the material 'Body'
2. Understanding the needs of Self ('I') and 'Body' - Sukh and Suvidha
3. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer)
4. Understanding the characteristics and activities of 'I' and harmony in 'I'
5. Understanding the harmony of I with the Body: Sanyam and Swasthya; correct appraisal of Physical needs, meaning of Prosperity in detail
6. Programs to ensure Sanyam and Swasthya

LECTURE PLAN:

S No	Topic	Method of teaching	No. of periods	References	Animations ,PPTS, & NPTEL Lectures
1	Understanding Needs of the self and Needs of the	Black board /PPT	1	T1	
2	Understanding the Self as the Conscious Entity, the body as the Material Entity of Value Education	Black board /PPT	2	T1	
3	Exercise on distinguishing Needs of the Self and Body , Understanding the Body as an Instrument of „I“	Black board /PPT	2	T1	
4	Getting to know the Activities in the Self , The Activities in „I „,are	Black board	2	T1	



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	Continuous ,	/PPT			
5	What is the Problem today? Effects of it and the solution for it	Black board /PPT	2	T1	
6	Result of Realization and Understanding –Living with Definiteness.	Black board /PPT	2	T1	
7	A Self – organized unit i.e sanyama and svasthya(„I“ with the body)	Black board /PPT	2	T1	
8	Understanding and Living with Sanyama	Black board /PPT	1	T1	
9	Correct Appraisal of our Physical needs	Black board /PPT	2	T1	
	Total no. of periods are required to complete the unit		14		

Two marks Questions:

1. What is Material Entity of Value Education
2. What is the Self as the Conscious Entity
3. Define Body as an Instrument of „I“



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4. How & What is the Problem today? Effects of it and the solution for it.
5. Define Living with Definiteness.
6. What is sanyama
7. What is svasthya
8. Define Appraisal of our Physical needs
9. What is meaning of Prosperity
10. What is sLiving with Sanyama

Essay Questions:

1. Elucidate the self (I) as the conscious entity, the body as the material entity?
2. What are the consequences of confusion between Sukh and Savidha?
3. "Human being is more than just the Body"- explain?
4. Why are the Physical facilities required? What do you mean by right utilization of Body?
5. Are the activities in „I“ continuous or temporary? Justify your answer.
6. How does realization and understanding lead to definiteness of human conduct?
7. In what way can we say that the human body is a self-organized unit?
8. How is the correct appraisal of our physical needs done?
9. Suggest any two programs that you can undertake to improve the health of your body?
10. How do we go into conflicts when our activities are not guided by one natural Acceptance?

Fill In The Blanks:



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1. Knowing“ means having the _____.
2. Each human being is co-existence of the _____.
3. The _____ does not „assume“ things.
4. _____ is the feeling of responsibility for nurturing, protecting and right _____.
5. utilizing the body. Where there is harmony among the parts of the body, it is known as _____.
6. Sanyama _____ is the basis of _____.
7. Sanyam _____ is vital for the _____.
8. With the help of the _____, self explores and interact with rest of the nature.
9. The system of the body works in a _____ way.
10. Human body is an instrument to facilitate _____.

ANSWERS:

Right understanding

Self (I) and the body

Body

Sanyam

Swasthya

Swasthya

Swasthya

Body

Self organized

Right understanding

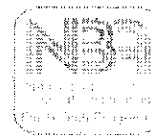


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UNIT - III:

Understanding Harmony in the Family and Society - Harmony in Human - Human

Relationship: Understanding harmony in the Family the basic unit of human interaction.

Understanding values in human - human relationship; meaning of Nyaya and program for its fulfillment to ensure Ubhay-tripti; Trust (Vishwas) and Respect (Samman) as the

foundational values of relationship. Understanding the meaning of Vishwas; Difference

between intention and competence. Understanding the meaning of Samman, Difference between respect and differentiation; the other salient values in relationship. Understanding the harmony in

the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astiva as comprehensive Human Goals. Visualizing a universal harmonious order in society - Undivided

Society (Akhand Samaj), Universal Order (Sarvabhaum Vyawastha) - from family to world family!

LEARNING OBJECTIVES:

1. Understanding the meaning of Vishwas; Difference between intention and competence
2. Understanding the meaning of Samman, Difference between respect and differentiation; the other salient values in relationship
3. Understanding the harmony in the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astitva as comprehensive Human Goals
4. Visualizing a universal harmonious order in society- Undivided Society (Akhand Samaj), Universal Order (Sarvabhaum Vyawastha)- from family to world family!

LECTURE PLAN:

S No	Topic	Method of teaching	No. of periods	References	Animations ,PPTS, & NPTEL Lectures



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1	Understanding Values in Human Relationships, Family as the basic Unit of Human Interaction Values in human Relationships	Black board /PPT	1	T1	
2	Trust, respect, the Basis for Respect, Assumed Bases for Respect today	Black board /PPT	2	T1	
3	Difference between „Attention“ and Respect. What is the way out? Affection	Black board /PPT	2	T1	
4	Care, Guidance, Reverence, Glory, Gratitude, Love, Harmony from Family to World Family: Undivided Society	Black board /PPT	2	T1	
5	What are prevailing notions of happiness and Prosperity? , Why are we in this State of - Living with Wrong Assumptions	Black board /PPT	2	T1	
6	Extending Relationship from family to society	Black board /PPT	2	T1	
7	Identification of the Comprehensive Human Goal	Black board /PPT	2	T1	
8	Programs needed to achieve the	Black	1	T1	

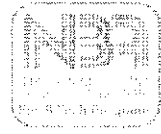


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	Comprehensive Human Goal: The Five Dimensions of Human Endeavour	board /PPT			
9	Education-Right Living, Health-Selfregulations, Justice – Preservatin,Production – Work ,Exchange – Storage, What is our State today?	Black board /PPT	2	T1	
	Total no. of periods are required to complete the unit		14		

Two marks Questions:

1. Define Human Relationships.
2. Define Family as the basic Unit of Human
3. What is Harmony in Human?
4. What is meaning of Nyaya
5. Define Ubhay-tripti.
6. Define Trust (Vishwas) and Respect (Samman)
7. Define Samadhan, Samridhi.
8. Define Abhay, Sah-astiva
9. What is Akhand Samaj
10. What is Sarvabhaum Vyawastha

Essay Questions:

- Q.1 The major crisis in today's society is that of Trust and Respect. Elucidate?
- Q.2 What is „Justice“ what are its four elements? Is it a continuous or a temporary need?
- Q.3 How is „Trust“ the foundation values of relationship?
- Q.4 What can be the basis of an undivided society- the „World family“?



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Q.5 Explain the dimensions of human Endeavour in society conducive to manaviya Vyavastha?

Q.6 Indicate a few feasible steps to promote harmony in the society and co-existence with nature.

Q.7 What is the Svabhava (Natural Characteristic) of animal order?

Q.8 What is the meaning of Education and Sanskara? How does Sanskara follow education?

Q.9 Write a note on "Recyclability and Self – regulation in nature.

Q.10 Explain the term „Anu – Sangita“.

Fill In The Blanks:

1. The participation of the human being in ensuring the role of physical facility in nurture, protection and providing means for the body is called its _____.

2. The participation of the human being in ensuring the role of physical facility to help and preserve its utility is called its _____.

3. Between every two units there is _____.

4. When nature is submerged in space we call it _____.

5. Nature is (Limited) _____ and while space is _____ in size.

6. When something is active or has activity, we call it a _____.

7. Space is constant or _____ energy.

8. There are two kinds of realities in existence: (Space) _____ and (units) _____.

9. Material units have the activities of _____ and _____.

10. Co-existence is when _____ is submerged in _____.

ANSWERS:

1. Utility value
2. Artistic value
3. Space



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4. Existence
5. Unlimited
6. Unit
7. Equilibrium
8. Recognizing and fulfilling
9. Nature and space
10. Space and units

UNIT - IV:

Understanding Harmony in the nature and Existence - Whole existence as Coexistence:

Understanding the harmony in the Nature. Interconnectedness and mutual fulfillment

among the four orders of nature - recyclability and self-regulation in nature. Understanding

Existence as Co-existence (Sah-astiva) of mutually interacting units in all-pervasive space.

Holistic perception of harmony at all levels of existence.

LEARNING OBJECTIVES:

5. Understanding the harmony in the Nature
6. Interconnectedness and mutual fulfillment among the four orders of nature- recyclability and self-regulation in nature
7. Understanding Existence as Co-existence (Sah-astitva) of mutually interacting units in all-pervasive space
8. Holistic perception of harmony at all levels of existence

LECTURE PLAN:



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S No	Topic	Method of teaching	No. of periods	References	Animations ,PPTS, & NPTEL Lectures
1	Harmony from Family order World Family Order : Universal Human Order Summary	Black board /PPT	1	T1	
2	The Four Orders in Nature	Black board /PPT	2	T1	
3	Recyclability and self regulation in Nature	Black board /PPT	2	T1	
4	Understanding the Four Orders: Things, Activity, Innateness, Natural Characteristic, Basic Activity, Conformance, and Human Being –Our State today. What is way out?	Black board /PPT	2	T1	
5	Harmony in Existence – Understanding Existence as Co- Existence	Black board /PPT	2	T1	
6	An Introduction to space, Co-existence of Units in Space	Black board /PPT	2	T1	
7	Active and No –activity, Energized and Energy in	Black	2	T1	

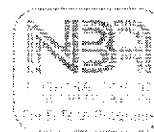


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	Equilibrium, Each Unit Recognizes – Space is Reflecting & Transparent. Self – organized, and Self – organization is Available	board /PPT			
8	Existence is Coexistence, What are we doing today? Where do we want to be?	Black board /PPT	1	T1	
9	Values in Different Dimensions of Human Living	Black board /PPT	2	T1	
10	Definitiveness of Ethical Human Conduct, Identification of Svatva leading to svatantrata and svarajya, Development of Human Consciousness	Black board /PPT	2	T1	
	Total no. of periods are required to complete the unit		14		

Two marks Questions:

1. What is Harmony in the nature and Existence?
2. Difference between Whole existences as Coexistence?
3. What is Interconnectedness?
4. Define Things, Activity, Innateness
5. What is Natural Characteristic
6. What are Basic Activity, Conformance
7. What is Identification of Svatva
8. What is all-pervasive space



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9. Define Holistic perception
10. What is svatantrata and svarajya

Essay Questions:

1. Differentiate between units and space. How are units self – organized in space?
2. Draw a chart showing in detail, the different categories of units of nature in co-existence in space.
3. Nature submerged in space” – explain the term with reference to existence.
4. What do you mean by holistic alternatives? What is the vision for the holistic alternative?
5. Existence= nature submerged in space. Elaborate this point.
6. Differentiate between units and space. How are units self – organized in space?

Fill In The Blanks:

1. The participation of the human being in ensuring the role of physical facility in nurture, protection and providing means for the body is called its _____.
2. The participation of the human being in ensuring the role of physical facility to help and preserve its utility is called its _____.
3. Between every two units there is _____.
4. When nature is submerged in space we call it _____.
5. Nature is _____ and while space is _____ in size.
6. When something is active or has activity, we call it a _____.
7. Space is constant or _____ energy.
8. There are two kinds of realities in existence: _____ and _____.
9. Material units have the activities of _____ and _____.
10. The first order of nature is _____.

ANSWERS:



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1. Utility value
2. Artistic value
3. Space
4. Existence
5. Limited, unlimited
6. Unit
7. Equilibrium
8. Space, Unit
9. Recognizing, fulfilling
10. Material order

UNIT - V:

Implications of the above Holistic Understanding of Harmony on Professional

Ethics: Natural acceptance of human values, Definitiveness of Ethical Human Conduct, Basic for Humanistic Education, Humanistic Constitution and Humanistic Universal Order.

Competence in professional ethics:

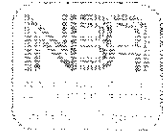


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- a. Ability to utilize the professional competence for augmenting universal human order,
- b. Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems,
- c. Ability to identify and develop appropriate technologies and management patterns for above production systems.

Case studies of typical holistic technologies, management models and production systems.

Strategy for transition from the present state to Universal Human Order.

- a. At the level of individual: as socially and ecologically responsible engineers, technologists and managers
- b. At the level of society: as mutually enriching institutions and organizations.

LEARNING OBJECTIVES:

1. Natural acceptance of human values
2. Definitiveness of Ethical Human Conduct
3. Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order Competence in professional ethics:
 - a) Ability to utilize the professional competence for augmenting universal human order,
 - b) Ability to identify the scope and characteristics of people-friendly and eco- friendly production systems,
 - c) Ability to identify and develop appropriate technologies and management patterns for above production systems.
4. Case studies of typical holistic technologies, management models and production systems
5. Strategy for transition from the present state to Universal Human Order:
 - a) At the level of individual: as socially and ecologically responsible engineers, technologists and managers
 - b) At the level of society: as mutually enriching institutions and organizations

LECTURE PLAN:



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S No	Topic	Method of teaching	No. of periods	References	Animations ,PPTS, & NPTEL Lectures
1	Identification of Comprehensive Human Goal , Basis for Humanistic Education and Humanistic Constitution	Black board /PPT	1	T1	
2	Ensuring Competence in professional Ethics	Black board /PPT	2	T1	
3	Issues in Professional Ethics-The Current Scenario, The Holistic Criteria for Evaluation	Black board /PPT	2	T1	
4	A critical Appraisal of the Prevailing Systems , Learning from the systems in Nature and Traditional Practices	Black board /PPT	2	T1	
5	Holistic Technologies and Systems-Typical Case Studies	Black board /PPT	2	T1	
6	Appreciating the Need for self – Exploration Facilitating the Understanding of Harmony at various Levels	Black board /PPT	2	T1	
8	Steps for Evolution at the Individual Level, Steps for Transition at the Level of Family, Society	Black board	1	T1	

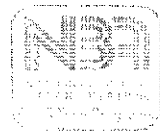


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	and profession, Promoting Mass Awareness and moving towards Humanistic Education	/PPT			
9	Evolving Holistic Models of Living Amending Policies, Programs and social Systems in tune with Comprehensive Human Goal	Black board /PPT	2	T1	
10	Is the Transition too Difficult? Concluding Remarks	Black board /PPT	2	T1	
	Total no. of periods are required to complete the unit		14		

Two marks Questions:

1. Define Professional Ethics
2. Define Natural acceptance of human values
3. What is Definitiveness of Ethical Human Conduct
4. What is Humanistic Constitution
5. Define Ethical Human Conduct
6. What is Competence in professional ethics
7. What is augmenting universal human order.
8. Define People friendly production system
9. Define Eco friendly production system
10. define Comprehensive Human Goal

ESSAY QUESTIONS



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1. Differentiate between units and space. How are units self – organized in space?
2. Draw a chart showing in detail, the different categories of units of nature in co-existence in space.
3. “Nature submerged in space” – explain the term with reference to existence.
4. What do you mean by holistic alternatives? What is the vision for the holistic alternative?
5. Explain the term „Competence“ in professional ethics. Mention a few steps you may take to promote ethics among your colleagues among
6. whom unethical practices prevail?

FILL IN THE BLANKS:

1. The definitiveness of human conduct in terms of values, policies and character is termed as _____.
2. Developing ethical competence in the profession is the only effective way to ensure _____.
3. The term ethics has been taken from the Greek word _____ which means character.
4. _____ are considered the moral standards by which people judge behaviour.
5. _____ is the implication of _____ in _____.
6. Comprehensive human goal consists of _____, _____, _____, and _____.
7. Holistic production systems are eco-friendly and _____.

ANSWERS:

1. Ethics
2. Professional ethics



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3. Ethos
4. Ethics
5. Professional ethics , right understanding profession
6. Samadhan samridhi abhay seh-astitva
7. people - friendly



Department of Mechanical Engineering

III- B.Tech – I Sem - Mechanical Engineering – (Sec-C)							LECTURE HALL No: 409		
Period	8.45-9.35	9.35-10.25	10.25-10.40	10.40-11-30	11.30-12-20	12.20-1.00	1.00-1.50	1.50-2.40	2.40-3.30
	1	2	BREAK	3	4	LUNCH BREAK	5	6	7
MON	TE/MT/EM LAB			TE/MT/EM LAB			DMM-I	TE-I	PE
TUE	CRT	CRT		DMM-I	SEM		TE-I	FOM	DM
WED	DMM-I	MMT		FOM	DM		MMT	SPORTS	
THU	DM	FOM		TE-I	MMT		TE/MT/EM LAB		
FRI	MMT	DMM-I		DM	DMM-I		TE/MT/EM LAB		
SAT	TE-I	FOM		PE	TE-I		DM	FOM	MMT
SUBJECT				FACULTY NAME					
Design of Machine Members - I				Mr. M. Siva Rama Krishna					
Thermal Engineering-I				Mr. R. Eashwaraiah					
Metrology and Machine Tools				Mr. N. Venkateswarlu					
Fundamentals of Management				Mr. R. Srinivas Reddy					
Open Elective – I Disaster Management				Mr. D. Srinivas					
Thermal Engineering Lab				Mr. Sarat Chandra Mohanthy					
Machine Tools Lab				Mr. Naresh					
Engineering Metrology Lab				Mr. M. Siva Rama Krishna					
Professional Ethics				Dr. K. Bhaskar					
Class Co-ordinator				Mr. M. Siva Rama Krishna					


Time Table Incharge


HOD-ME

PROFESSIONAL ETHICS

B.Tech. III Year I Sem.
Course Code: MC500HS

L	T	P	C
3	0	0	0

Course Objective: To enable the students to imbibe and internalize the Values and Ethical Behaviour in the personal and Professional lives.

Course Outcome: The students will understand the importance of Values and Ethics in their personal lives and professional careers. The students will learn the rights and responsibilities as an employee, team member and a global citizen.

UNIT - I

Introduction to Professional Ethics: Basic Concepts, Governing Ethics, Personal & Professional Ethics, Ethical Dilemmas, Life Skills, Emotional Intelligence, Thoughts of Ethics, Value Education, Dimensions of Ethics, Profession and professionalism, Professional Associations, Professional Risks, Professional Accountabilities, Professional Success, Ethics and Profession.

UNIT - II

Basic Theories: Basic Ethical Principles, Moral Developments, Deontology, Utilitarianism, Virtue Theory, Rights Theory, Casuist Theory, Moral Absolution, Moral Rationalism, Moral Pluralism, Ethical Egoism, Feminist Consequentialism, Moral Issues, Moral Dilemmas, Moral Autonomy.

UNIT - III

Professional Practices in Engineering: Professions and Norms of Professional Conduct, Norms of Professional Conduct vs. Profession; Responsibilities, Obligations and Moral Values in Professional Ethics, Professional codes of ethics, the limits of predictability and responsibilities of the engineering profession.

Central Responsibilities of Engineers - The Centrality of Responsibilities of Professional Ethics; lessons from 1979 American Airlines DC-10 Crash and Kansas City Hyatt Regency Walk away Collapse.

UNIT - IV

Work Place Rights & Responsibilities, Ethics in changing domains of Research, Engineers and Managers; Organizational Complaint Procedure, difference of Professional Judgment within the Nuclear Regulatory Commission (NRC), the Hanford Nuclear Reservation.

Ethics in changing domains of research - The US government wide definition of research misconduct, research misconduct distinguished from mistakes and errors, recent history of attention to research misconduct, the emerging emphasis on understanding and fostering responsible conduct, responsible authorship, reviewing & editing.

UNIT - V

Global issues in Professional Ethics: Introduction – Current Scenario, Technology Globalization of MNCs, International Trade, World Summits, Issues, Business Ethics and Corporate Governance, Sustainable Development Ecosystem, Energy Concerns, Ozone Deflection, Pollution, Ethics in Manufacturing and Marketing, Media Ethics; War Ethics; Bio Ethics, Intellectual Property Rights.

TEXT BOOKS:

1. Professional Ethics: R. Subramanian, Oxford University Press, 2015.
2. Ethics in Engineering Practice & Research, Caroline Whitbeck, 2e, Cambridge University Press 2015.

REFERENCES

1. Engineering Ethics, Concepts Cases: Charles E Harris Jr., Michael S Pritchard, Michael J Rabins, 4e , Cengage learning, 2015.
2. Business Ethics concepts & Cases: Manuel G Velasquez, 6e, PHI, 2008.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

B.Tech III ECE-A

AY 2019-20 Room No : 307

w.e.f. 15-07-2019

Time / Day	8:45-9:35	9:35-10:25	10:25-10:40	10:40-11:30	11:30-12:20	12:20-1:00	1:00-1:50	1:50-2:40	2:40-3:30
MON	EMI	EMTL	B R E A K	LDICA	DC	L U N C H	LDICA/DICA/DC LAB		
TUE	LDICA	FOM		EMTL	EMI		LDICA	DC	SEMINAR
WED	CRT			FOM	EMTL		LDICA/DICA/DC LAB		
THU	EMTL	DC		LDICA	PE		EMI	LIB/SPORTS	
FRI	DC	LDICA/DICA/DC LAB		LDICA/DICA/DC LAB			EMTL	FOM	LDICA
SAT	FOM	EMI		DC	EMTL		FOM	EMI	LDICA

Subject	Section - A
Electromagnetic Theory and Transmission Lines	Mrs.N.Koteswaramma
Linear and Digital IC Applications	Mr.P.Sandeep
Digital Communications	Dr.B.Vijayalaxmi
Fundamentals of Management	Mrs.N.Roopaa
Open Elective-1 Electronic Measurements and Instrumentation	Mr.P.Nageswara Rao
Professional Ethics	Mrs. Y. Vidyavathi
Linear IC Applications Lab	Mr. V. Shankar
Digital IC Applications Lab	Mr.P.Sandeep
Digital Communications Lab	Mr.P.Srinivasu
CLASS TEACHER	Mr.P.Sandeep

for Vijaya
Time table incharge

[Signature]
HOD-ECE



VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

B.Tech III ECE-B

AY 2019-20 Room No : 309

w.e.f. 15-07-2019

Day/time	8:45-9:35	9:35-10:25	10:25-10:40	10:40-11:30	11:30-12:20	12:20-1:00	1:00-1:50	1:50-2:40	2:40-3:30
MON	LDICA	FOM	B R E A K	EMTL	FOM	L U N C H	DC	LDICA	EMI
TUE	EMI	EMTL		DC	FOM		LDICA/DICA/DC LAB		
WED	EMTL	LDICA		CRT			FOM	EMI	LDICA
THU	DC	EMI		FOM	EMTL		LDICA	LIB/SPORTS	
FRI	LDICA	EMI		EMTL	DC		LDICA/DICA/DC LAB		
SAT	PE	EMTL		DC	SEMINAR		LDICA/DICA/DC LAB		

Subject	Section - B
Electromagnetic Theory and Transmission Lines	Mrs.N.Koteswaramma
Linear and Digital IC Applications	Mr.P.Sandeep
Digital Communications	Mr.P.Upender
Fundamentals of Management	Mrs.N.Roopa
Open Elective-1 Electronic Measurements and Instrumentation	Mr.P.Nageswara Rao
Professional Ethics	Dr.K.Bhaskar
Linear IC Applications Lab	Mr.V.Shankar
Digital IC Applications Lab	Mr.B.Meenaiah
Digital Communications Lab	Mr.P.Srinivasu/ Mr.P.Upender
CLASS TEACHER	Mr.P.Upender

for Duvvy
 Time table incharge

[Signature]
 HOD-ECE



VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

B.Tech III ECE-C

AY 2019-20 Room No : 310

w.e.f. 15-07-2019

Day/time	8:45-9:35	9:35-10:25	10:25-10:40	10:40-11:30	11:30-12:20	12:20-1:00	1:00-1:50	1:50-2:40	2:40-3:30
MON	FOM	EMI	B R E A K	DC	EMI	L U N C H	LDICA	EMTL	DC
TUE	DC	LDICA/DICA/DC LAB		LDICA/DICA/DC LAB	FOM		EMTL	LDICA	
WED	EMI	LDICA/DICA/DC LAB		LDICA/DICA/DC LAB	FOM		CRT		
THU	LDICA	LDICA/DICA/DC LAB		LDICA/DICA/DC LAB	EMTL		LIB/SPORTS		
FRI	EMTL	DC		LDICA	EMI		LDICA	FOM	EMTL
SAT	EMI	FOM		PE	DC		LDICA	EMTL	SEMINAR

Subject	Section - C
Electromagnetic Theory and Transmission Lines	Mrs.N.Koteswaramma
Linear and Digital IC Applications	Mr.P.Sandeep
Digital Communications	Mr.P.Upender
Fundamentals of Management	Dr.Sri ram
Open Elective-1 Electronic Measurements and Instrumentation	Mr.P.Nageswara Rao
Professional Ethics	Dr.P.Chandrashekar
Linear IC Applications Lab	Mr.V.Shankar
Digital IC Applications Lab	Mr.B.Meenaiah
Digital Communications Lab	Mr.P.Srinivasu
CLASS TEACHER	Mr.P.Nageswara Rao

Mr. Upendra
Time table incharge


[Signature]
HOD-ECE



Department of Mechanical Engineering

Academic year 2019-20						W.e.f: 15.07.2019			
III – B.Tech – I Sem - Mechanical Engineering – (Sec-A)						LECTURE HALL No: 405			
Period	8.45-9.35	9.35-10.25	10.25-10.40	10.40-11-30	11.30-12-20	12.20-1.00	1.00-1.50	1.50-2.40	2.40-3.30
	1	2	BREAK	3	4	LUNCH BREAK	5	6	7
MON	DMM-I	DM		MMT	TE-I		MMT	PE	FOM
TUE	TE-I	DMM-I		CRT	C R T		TE/MT/EM LAB		
WED	FOM	PE		DM	TE-I		DMM-I	SPORTS	
THU	TE/MT/EM LAB			TE/MT/EM LAB			FOM	MMT	TE-I
FRI	DM	FOM		MMT	DMM-I		SEM	DM	DMM-I
SAT	MMT	TE-I		FOM	DM		TE/MT/EM LAB		
SUBJECT					FACULTY NAME				
Design of Machine Members - I					Mr. M. Ashok				
Thermal Engineering-I					Mr. R. Eashwaraiah				
Metrology and Machine Tools					Dr. SM. Hussaini				
Fundamentals of Management					Dr. M. Sriramu				
Open Elective – I Disaster Management					Mr. Hari Prasad				
Thermal Engineering Lab					Mr. Shiva Kumar				
Machine Tools Lab					Mr. M. Ashok				
Engineering Metrology Lab					Mr. M. Siva Rama Krishna				
Professional Ethics					Mr. K. Chandra shekar				
Class Co-ordinator					Mr. M. Ashok				


Time Table Incharge


HOD-ME



Department of Mechanical Engineering

III- B.Tech -I Sem - Mechanical Engineering - (Sec-B)							LECTURE HALL No: 408		
Period	8.45-9.35	9.35-10.25	10.25-10.40	10.40-11-30	11.30-12-20	12.20-1.00	1.00-1.50	1.50-2.40	2.40-3.30
	1	2	BREAK	3	4	LUNCH BREAK	5	6	7
MON	TE-I	DM		DMM-I	MMT		TE/MT/EM LAB		
TUE	DMM-I	LAB		TE/MT/EM LAB			CRT	CRT	MMT
WED	MMT	DMM-I		FOM	PE		TE-I	SPORTS	
THU	FOM	MMT		DM	SEM		TE-I	DM	DMM-I
FRI	DM	TE-I		FOM	TE-I		DMM-I	MMT	FOM
SAT	TE/MT/EM LAB			TE/MT/EM LAB			FOM	PE	DM
SUBJECT				FACULTY NAME					
Design of Machine Members - I				Mr. M. Ashok					
Thermal Engineering-I				Mr. R. Eashwaraiyah					
Metrology and Machine Tools				Mr. N. Venkateswarlu					
Fundamentals of Management				Dr. M. Sriramu					
Open Elective - I Disaster Management				Mr. D. Srinivas					
Thermal Engineering Lab				Mr. R. Srikanth					
Machine Tools Lab				Mr. N. Venkateswarlu					
Engineering Metrology Lab				Mr. D. Srinivas					
Professional Ethics				Mrs. Y. Vidyavathi					
Class Co-ordinator				Mr. D. Srinivas					

VIGNAN INSTITUTE OF TECHNOLOGY & SCIENCE::DESHMUKHI

Department of Electrical & Electronics Engineering

Time-Table for Academic Year 2019-2020 I Semester

W.E.F : 15-07-2019

CLASS:III B.TECH - EEE						ROOM NO: B-401			
DAY	8.45-9.35AM	9.35-10.25AM	10.25-10.40AM	10.40-11.30AM	11.30-12.20PM	12.20-1.00PM	1.00 - 1.50PM	1.50- 2.40PM	2.40- 3.30PM
MON	EMI	PS-II	B R E A K	DM	FOM	L U N C H B R E A K	MPMC/EMI/BES LAB		
TUE	MPMC	PS-II		EMI	DM		FOM	LIB/SPORTS	
WED	FOM	DM		PS-II	EMI		MPMC	FOM	SEMINAR
THU	MPMC	MPMC/EMI/BES LAB			PS-II		MPMC	DM	
FRI	CRT		B R E A K	MPMC	EMI		FOM	DM	Professional Ethics
SAT	EMI	PS-II		MPMC	EMI		MPMC/EMI/BES LAB		IP

S.No	Name of the Subject	Name of the Faculty	Signature
1	Power system-II	Dr.T.Rama Subba Reddy	
2	Electrical Measurements & Instrumentation	Mrs.G.Sravanthi	
3	Microprocessors and Microcontrollers	Mr.B.Rathna kanth	
4	Fundamentals of Management	Mr.R.Srinivas Reddy	
5	Disaster Management.	Mr.A.Hariprasad	
6	Electrical Measurements & Instrumentation lab	Mrs.G.Sravanthi/ Mrs.G.Madhuri	
7	Microprocessors and Microcontrollers Lab	Mr.B.Rathna kanth	
8	BES LAB	Mr. L.Bhanu Ganesh / Mr.K. Vishnu	
9	Professional Ethics	Mrs. Y. Vidyavathi Devi	
1	Seminar	Mrs.G.Sravanthi/B.Shankar	
11	Innovative project	Mr.A.Hariprasad/ Mr.K. Vishnu	
12	Class In charge	Mrs.G.Sravanthi	

Time Table In-charge

HOD-EEE

PROFESSIONAL ETHICS

B.Tech. III Year I Sem.
Course Code: MC500HS

L T/P/D C
3 0/0/0 0

Course Objective: To enable the students to imbibe and internalize the Values and Ethical Behaviour in the personal and Professional lives.

Course Outcome: The students will understand the importance of Values and Ethics in their personal lives and professional careers. The students will learn the rights and responsibilities as an employee, team member and a global citizen.

UNIT - I

Introduction to Professional Ethics: Basic Concepts, Governing Ethics, Personal & Professional Ethics, Ethical Dilemmas, Life Skills, Emotional Intelligence, Thoughts of Ethics, Value Education, Dimensions of Ethics, Profession and professionalism, Professional Associations, Professional Risks, Professional Accountabilities, Professional Success, Ethics and Profession.

UNIT - II

Basic Theories: Basic Ethical Principles, Moral Developments, Deontology, Utilitarianism, Virtue Theory, Rights Theory, Casuist Theory, Moral Absolution, Moral Rationalism, Moral Pluralism, Ethical Egoism, Feminist Consequentialism, Moral Issues, Moral Dilemmas, Moral Autonomy.

UNIT - III

Professional Practices in Engineering: Professions and Norms of Professional Conduct, Norms of Professional Conduct vs. Profession; Responsibilities, Obligations and Moral Values in Professional Ethics, Professional codes of ethics, the limits of predictability and responsibilities of the engineering profession.

Central Responsibilities of Engineers - The Centrality of Responsibilities of Professional Ethics; lessons from 1979 American Airlines DC-10 Crash and Kansas City Hyatt Regency Walkaway Collapse.

UNIT - IV

Work Place Rights & Responsibilities, Ethics in changing domains of Research, Engineers and Managers; Organizational Complaint Procedure, difference of Professional Judgment within the Nuclear Regulatory Commission (NRC), the Hanford Nuclear Reservation. Ethics in changing domains of research - The US government wide definition of research misconduct, research misconduct distinguished from mistakes and errors, recent history of attention to research misconduct, the emerging emphasis on understanding and fostering responsible conduct, responsible authorship, reviewing & editing.

UNIT - V

Global issues in Professional Ethics: Introduction – Current Scenario, Technology Globalization of MNCs, International Trade, World Summits, Issues, Business Ethics and Corporate Governance, Sustainable Development Ecosystem, Energy Concerns, Ozone Deflection, Pollution, Ethics in Manufacturing and Marketing, Media Ethics; War Ethics; Bio Ethics, Intellectual Property Rights.

TEXT BOOKS:

1. Professional Ethics: R. Subramanian, Oxford University Press, 2015.
2. Ethics in Engineering Practice & Research, Caroline Whitbeck, 2e, Cambridge University Press 2015.

REFERENCES:

1. Engineering Ethics, Concepts Cases: Charles E Harris Jr., Michael S Pritchard , Michael J Rabins, 4e , Cengage learning, 2015.
2. Business Ethics concepts & Cases: Manuel G Velasquez, 6e, PHI, 2008.