**Syllabus for B.Tech. II year I Semester**

**Computer Science and Engineering**

**Universal Human Values**

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**Code: 8HC17**

**Human Values Courses:** This course also discusses their role in their family. It, very briefly, touches issues related to their role in the society and the nature, which needs to be discussed at length in one more semester for which the foundation course named as “H-102 Universal Human Values 2: Understanding Harmony is designed which may be covered in their III or IV semester. During the Induction Program, students would get an initial exposure to human values through Universal Human Values – I. This exposure is to be augmented by this compulsory full semester foundation course.

**OBJECTIVE:** The objective of the course is four fold:

1. Development of a holistic perspective based on self-exploration about themselves (human being), family, society and nature/existence.

2. Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence

3. Strengthening of self-reflection.

4. Development of commitment and courage to act.

**COURSE TOPICS**: The course has 28 lectures and 14 practice sessions in 6 modules:

**Module 1: Course Introduction** - Need, Basic Guidelines, Content and Process for Value Education

1. Purpose and motivation for the course, recapitulation from Universal Human Values-I

2. Self-Exploration–what is it? - Its content and process; ‘Natural Acceptance’ and Experiential Validation- as the process for self-exploration

3. Continuous Happiness and Prosperity- A look at basic Human Aspirations

4. Right understanding, Relationship and Physical Facility- 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.

Include practice sessions to discuss natural acceptance in human being as the innate acceptance for living with responsibility (living in relationship, harmony and co-existence) rather than as arbitrariness in choice based on liking-disliking.

**Module 2: Understanding Harmony in the Human Being** - Harmony in Myself!

7. Understanding human being as a co-existence of the sentient ‘I’ and the material ‘Body’

8. Understanding the needs of Self (‘I’) and ‘Body’ - happiness and physical facility

9. Understanding the Body as an instrument of ‘I’ (I being the doer, seer and enjoyer)

10. Understanding the characteristics and activities of ‘I’ and harmony in ‘I’

11. Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail

12. Programs to ensureSanyam and Health. Include practice sessions to discuss the role others have played in making material goods available to me. Identifying from one’s own life. Differentiate between prosperity and accumulation. Discuss program for ensuring health vs dealing with disease.

**Module 3: Understanding Harmony in the Family and Society**- Harmony in Human-Human Relationship

13. Understanding values in human-human relationship; meaning of Justice (nine universal values in relationships) and program for its fulfillment to ensure mutual happiness; Trust and Respect as the foundational values of relationship

14. Understanding the meaning of Trust; Difference between intention and competence

15. Understanding the meaning of Respect, Difference between respect and differentiation; the other salient values in relationship

16. Understanding the harmony in the society (society being an extension of family): Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals

17. Visualizing a universal harmonious order in society- Undivided Society, Universal Order- from family to world family.

Include practice sessions to reflect on relationships in family, hostel and institute as extended family, real life examples, teacher-student relationship, goal of education etc. Gratitude as a universal value in relationships. Discuss with scenarios. Elicit examples from students’ lives.

**Module 4: Understanding Harmony in the Nature and Existence** - Whole existence as Coexistence

18. Understanding the harmony in the Nature

19. Interconnectedness and mutual fulfillment among the four orders of nature- recyclability and self-regulation in nature

20. Understanding Existence as Co-existence of mutually interacting units in all-pervasive space

21. Holistic perception of harmony at all levels of existence.

Include practice sessions to discuss human being as cause of imbalance in nature (film “Home” can be used), pollution, depletion of resources and role of technology etc.

**Module 5: Implications of the above Holistic Understanding**

22. Natural acceptance of human values

23. Definitiveness of Ethical Human Conduct

24. Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order

**Module 6: Harmony on Professional Ethics**

25. 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.

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

27. 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

28. Sum up.

Include practice Exercises and Case Studies will be taken up in Practice (tutorial) Sessions eg. to discuss the conduct as an engineer or scientist etc.

**Text Book**

1.Human Values and Professional Ethics by R R Gaur, R Sangal, G P Bagaria, Excel Books, New Delhi, 2010 3.

**Reference Books**

1.Jeevan Vidya: EkParichaya, A Nagaraj, Jeevan Vidya Prakashan, Amarkantak, 1999.

2.Human Values, A.N. Tripathi, New Age Intl. Publishers, New Delhi, 2004. 3.The Story

of Stuff (Book).

4.The Story of My Experiments with Truth - by Mohandas Karamchand Gandhi

5.Small is Beautiful - E. F Schumacher.

6.Slow is Beautiful - Cecile Andrews

7.Economy of Permanence - J C Kumarappa

8.Bharat Mein Angreji Raj - PanditSunderlal

9.Rediscovering India - by Dharampal

10.Hind Swaraj or Indian Home Rule - by Mohandas K. Gandhi

11.India Wins Freedom - Maulana Abdul Kalam Azad

12.Vivekananda - Romain Rolland (English)

13.Gandhi - Romain Rolland (English)

**LECTURE SCHEDULE**

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| **S. No** | **UNIT** | **No. of periods** | **TOPIC TO BE COVERED** |
| 1 | **I** | 7 | **INTRODUCTION TO HUMAN VALUES** |
| 2 | Purpose and motivation for the course, recapitulation from Universal Human Values-I |
| 3 | Self-Exploration–what is it? - Its content and process; ‘Natural Acceptance’ and Experiential Validation- as the process for self-exploration |
| 4 | Continuous Happiness and Prosperity- A look at basic Human Aspirations |
| 5 | Right understanding, Relationship and Physical Facility- |
| 6 | the basic requirements for fulfillment of aspirations of every human being with their correct priority |
| 7 | Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario |
| 8 | Method to fulfill the above human aspirations: understanding and living in harmony at various levels. |
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| 9 | **II** | 7 | **Understanding Harmony in the Human Being** |
| 10 | Understanding human being as a co-existence of thesentient ‘I’ and the material ‘Body’ |
| 11 | Understanding the needs of Self (‘I’) and ‘Body’ - happiness and physical facility |
| 12 | Understanding the Body as an instrument of ‘I’ (I being thedoer, seer and enjoyer) |
| 13 | Understanding the characteristics and activities of ‘I’ and harmony in ‘I’ |
| 14 | Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail |
| 15 |  |  | Programs to ensureSanyam and Health. Include practice sessions to discuss the role others have played in making material goods available to me. Identifying from one’s own life. Differentiate between prosperity and accumulation. Discuss program for ensuring health vs dealing with disease.  .. |
| 16 | **III** | 7 | **Understanding Harmony in the Family and Society** |
| 17 | Understanding values in human-human relationship; meaning of Justice (nine universal values in relationships) and program for its fulfillment to ensure mutual happiness; Trust and Respect as the foundational values of relationship |
| 18 | Understanding the meaning of Trust; Difference between intention and competence |
| 19 | Understanding the meaning of Respect, Difference between respect and differentiation; the other salient values in relationship |
| 20 | Understanding the harmony in the society (society being an extension of family): Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals |
| 21 | Visualizing a universal harmonious order in society- Undivided Society, Universal Order- from family to world family. |
| 22 | Include practice sessions to reflect on relationships in family, hostel and institute as extended family, real life examples, teacher-student relationship, |
| 23 | goal of education etc. Gratitude as a universal value in relationships. Discuss with scenarios. Elicit examples from students’ lives |
| 24 | Pollution, Harmony in Nature |
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| 25 | **IV** | 7 | **Understanding Harmony in the Nature and Existence** |
| 26 | Understanding Harmony in the Nature and Existence - Whole existence as Coexistence |
| 27 | Understanding the harmony in the Nature |
| 28 | Interconnectedness and mutual fulfillment among the four orders of nature- recyclability and self-regulation in nature  . |
| 29 | Understanding Existence as Co-existence of mutually interacting units in all-pervasive space |
| 30 | Holistic perception of harmony at all levels of existence.  pollution, depletion of resources and role of technology etc  Include practice sessions to discuss human being as cause of imbalance in nature (film “Home” can be used) |
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| 31 | **V** | 3 | **Implications of the above Holistic Understanding** |
| 32 | Natural acceptance of human values |
| 33 | Definitiveness of Ethical Human Conduct |
| 34 | Basis for Humanistic Education, |
| 35 |  |  | Humanistic Constitution and Humanistic Universal Order |
| 36 | VI | 6 | **Implications of the above Holistic Understanding** |
| 37 | Competence in professional ethics:  a. Ability to utilize the professional competence for augmenting universal human order |
| 38 | 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. |
| 39 | Case studies of typical holistic technologies, management models and production systems |
| 40 | 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 |
| 41 | b. At the level of society: as mutually enriching institutions and organizations |
| 42 | 28. Sum up.  Include practice Exercises and Case Studies will be taken up in Practice (tutorial) Sessions eg. to discuss the conduct as an engineer or scientist etc. |

**QUESTION BANK**

**UNIT – I: INTRODUCTION TO HUMAN VALUES**

**Short Answer Questions**

1. What do you mean by values or human values?
2. What is value education? Why there is a need of value education?
3. How does value education helps in fulfilling one's aspirations?
4. What are the basic guidelines for value education?
5. What is ethical human conduct?
6. What is the need for value education?

**Essay Type Questions**

1. Purpose recapitulation from Universal Human Values
2. Explain Self-Exploration–what is it? –
3. Explain about ‘Natural Acceptance’ and Experiential Validation-
4. 3. Continuous Happiness and Prosperity- A look at basic Human Aspirations
5. Explain Right understanding, Relationship and Physical Facility
6. List out the basic requirements for fulfillment of aspirations of every human being with their correct priority
7. Explain critical appraisal of the current scenario
8. List out living in harmony at various levels.

**UNIT – II: Understanding Harmony in the Human Being**

**Short Answer Questions**

1. “The needs of self are Qualitative” Illustrate.
2. “The needs of the body are Quantitative” Illustrate
3. Explain the feeling of Respect.
4. Define Affection.
5. How does affection lead to harmony in the family?
6. Explain the feeling of Care with example.
7. Explain the feeling of Guidancewith example.
8. Explain the feeling of Glorywith example.
9. Explain the feeling of Gratitudewith example.
10. Explain the feeling of Reverencewith example.
11. Define Love.
12. Explain the terms active and pro – active behavior of individuals with examples.

**Essay Type Questions**

1. “Human being is the Co – Existence of the self and the body” – Elaborate on this statement
2. “Human being is the Co – Existence of the self and the body” – Explain this statement taking you as an example.
3. Differentiate between the activities of the self and the body on any two grounds.
4. Explain the activities of knowing, assuming, recognizing and fulfillment with one example.
5. How can we ensure harmony in self “I”?
6. Explain the relation between the self and the body. What is the responsibility of the self towards the body?
7. In what ways are we irresponsible towards our body? What are its consequences?
8. What is our present attitude towards the body? What are its consequences?
9. “The state of harmony or lack of it in the self has a strong influence on the health of the body” – Comment on this statement and illustrate with an example.
10. Define trust, How is trust the foundation value of relationship.
11. What do you understand by trust, what is its importance in human relationship?
12. Define Love. How can you say that love is the “Complete Value”.
13. What is Respect? When do we feel we have been disrespected?
14. Enumerate some of the important values which lie at the base of good relationships.
15. Feeling of love lay down the basis of undivided society. Explain.
16. What is the basis of ‘Respect’ for a human being? Do you see that the other human being is also similar to you – explain.
17. Explain the feeling of Care and Guidance. What role do these feelings have in Parentschildrelationship?

**UNIT – III: Understanding Harmony in the Family and Society**

**Short Answer Questions**

1. What Is Happiness?
2. Distinguish between Prosperity Vs. Wealth.
3. Define Harmony in nature.
4. Explain the harmony in nature.
5. What do you mean by Co – existence?
6. What are the four orders of nature? Briefly explain them.
7. What are the implications of value based living at all four levels of living? Explain.
8. Explain the four basic activities in the four orders in nature.
9. Write a short essay on the things that cause air pollution.
10. What is Global Warming?
11. Which gas is most responsible for the global warming?
12. State the causes and effects of global warming.
13. What are the two main causes of over – exploitation of natural resources?

**Essay Type Questions**

1. To be in a state of harmony is happiness. Explain this statement and illustrate with two examples from your day to day life.
2. There are many problems manifest today at the level of individual, family, society and the nature. Identify some of these problems human suffer from.
3. What is happiness and prosperity? Are they related to each other? Can happiness be obtained without prosperity? Explain.
4. What is prosperity? Is it different from happiness what are the basic human aspirations? Explain what is the outcome when we try to identify relationship based on the exchange of physical facilities?
5. Explain Justice with the help of diagram.
6. What is Justice? How does it lead to mutual happiness?
7. What is Justice? What are its four elements? Is it a continuous or a temporary need?
8. What are the five dimensions of human endeavor in society?
9. “The Family is the basic unit of human interaction”. Do you agree with the statement? Explain your answer using examples.
10. “Family is a natural laboratory to understand human relationship” – Elaborate it.
11. In our behavior, we generally observe our intention and others lack of competence. Does it lead mutual happiness?
12. What is the role of value system in family, harmony? How can you maintain harmony in relationship?
13. What are the programs needed to achieve the comprehensive human goal? List and define each briefly.
14. What are the five dimensions of human behavior? How are they helpful in achieving the comprehensive human goal?
15. Critically examine the state of society today in terms of fulfillment of comprehensive human goal.
16. What is Ozone Layer depletion? How it occurs?
17. State a few causes of water pollution. Discuss how you can contribute in reducing water pollution.

**UNIT – IV: Understanding Harmony in the Nature and Existence**

**Short Answer Questions**

1. Define the term communication.
2. Write a short note on the importance of communication.
3. What are the limitations of oral communication?
4. Write a note on the characteristics of written communication.
5. What is your opinion about the merits of learning?
6. What is listening?
7. What do you understand by writing skills?
8. What are the various steps of writing skills?
9. List down the sub- skills of listening.
10. Mention some of the activities for developing listening skills
11. Write down the process involved in reading.
12. Write a short note on the characteristics of good writing.
13. How will you develop reading skills among yourself?
14. Describe the characteristics of learning.
15. Explain different types of listening.
16. What kinds of qualities are required for a good listener?
17. Discuss the techniques of reading.

**Essay Type Questions**

1. Define the term learning. What is its impact on an individual behavior?
2. Why is communication so important to an individual?
3. Discuss the importance of the following in effective communication a) Politeness b) Clarity c) Feedback d) Completeness.
4. Write in your own words the advantages and limitations of written communication.
5. Describe different ways of learning that might be used in various training programmes.
6. Give an example of “ How 90% of the information goes to brain through eyes”
7. How might a teacher use mode of learning to get students to come to classes in time, turn in assignments on time, and take proper notes?
8. In the context of your role as a student identify the significance of learning and its impact on your behavior.
9. What are the characteristics of good listening explain.
10. Critically compare and contrast among hearing and listening.
11. Describe the various contexts in which we use different types of learning.
12. Explain the need and importance of listening in communication.
13. State the barriers to listening and ways to overcome the barrier.
14. For successful communication – listening is more important than speaking – explain.
15. What would be the steps and measures taken by you to enhance the communication skills of yourself?
16. “ Reading is a most important skill if you develop in a well manner” explain
17. Discuss in detail SQ4R as a reading strategies.
18. Listening is crucial to academic and profession l excellence – Discuss.
19. What is reading comprehension? Narrate reasons for poor comprehension and state how comprehension skills can be improved.
20. Discuss the various purposes and process of reading.
21. How does listening help in developing effective speaking skills.
22. Explain psychological barriers to listening.
23. Differentiate between active listening and passive listening.
24. Do you agree that listening is more important than speaking? Why? Why not?

**UNIT – V: Implications of the above Holistic Understanding**

**Short Answer Questions**

1. Explain the significance of employability skills for students.
2. What is positive attitude and its advantages?
3. Explain the term E – learning.
4. What is Inter – Personal communication?
5. State the meaning of Personality.
6. Give the meaning of Personality.
7. Give the meaning of decision making.
8. What is a decision?
9. Explain the term motivation.
10. State any two merits of motivation.
11. What is time management?
12. What are the key attributes of time?
13. What is goal?
14. How important is to set a goal in life?
15. Explain the importance of time management with suitable examples.
16. Define Yoga.
17. What is Pranayama?
18. Explain Suryanamaskar
19. Suggest some Yoga postures you now for beginners.
20. What is Meditation?
21. What is positive thinking?
22. Define Attitude
23. How do you develop healthy personality?
24. How do you assess personality?
25. Explain different types of memory.
26. Write a short note on Exam study skills.

**Essay Type Questions**

1. What are the different ways to enhance the Inter – personal skills of students? Explain.
2. Write a short note on the status of E – Learning in India.
3. Explain the importance and need for E – learning.
4. Define the overall meaning of personality in detail
5. “Time management is managing you” – Explain the meaning of Time management.
6. Discuss in detail the basic principles of Time management that you can apply in your day to day life.
7. Explain the importance of practicing Yoga in daily life.
8. Write an essay on the objectives, preparations and various methods of meditation.
9. How Yoga can influence our life as an art of living process? Examine the question based on your experiences
10. June 21st is being observed as the International Yoga Day. Suggest a package of yoga postures you now for beginners.
11. Explain how Yogic practices help to develop the personality of the individual.
12. Explain the ideal practice of Yoga in the new millennium.
13. How did you motivate yourself when you were a student?
14. When are you highly motivated? When you are least motivated?
15. How important is motivation in your daily activities?
16. How can you motivate a friend who is facing a difficult situation?
17. What do you think are the effects of lacking motivation?
18. Elaborate the fourteen areas that are covered in Discovery Wheel.

**UNIT – VI: Implications of the above Holistic Understanding**

**Short Answer Questions**

1. What are the responsibilities of students for their education?
2. What is student responsibility?
3. DefineEthics.
4. Differentiate Moral and Ethics?
5. Define the terms Values, Morals & Ethics?
6. What are values? Why values have degenerated?
7. What are the important values one should possess? Illustrate.

**Essay Type Questions**

1. Explain the significance ofNote taking.
2. Distinguish between Moral and ethics.
3. Mention any ten study habits ofa successful student.
4. Outline the effective study habits.
5. What are the characteristics of appropriate goal?
6. What are the senses of Responsibility?
7. Give an elaborate definition of values and ethics. Explain with examples the issues linked up with values and ethics in various profession.
8. Distinguish between studying in a Professional college and High school / Junior college.
9. Outline the characteristics of successful students.
10. Explain briefly the factors responsible for failure of students to excel in academics. Also suggest how to overcome such failures in future.