

Human Values
Lab Manual
(Common for All B. Tech Courses)



HEAS Department
University Department
Rajasthan Technical University, Kota



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HUMAN VALUES LAB MANUAL

Vision of HEAS Department

To provide a sound foundation to the undergraduate students by giving quality education in basic sciences along with moral ethics and effective communication skills to become competent engineers of tomorrow's to serve the society.

Mission of HEAS Department

The Department is committed to train the young graduates in basic sciences and inculcate ethical values and social responsibilities through an innovative teaching and learning methodology.



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HUMAN VALUES LAB MANUAL

COs and CO- PO Mapping

Credit: (Non- graded)

0L+0T+2P

Course Outcome for Human Values Lab Classes Learners should be able to:	
CO1	Identify what is valuable to human being and what are the aspirations of life.
CO2	Apply the understanding of value education in solving various problems.
CO3	Observe and examine the issues related to harmony in self, society and nature.
CO4	Focus on physical and mental fitness.

Title of Course: HUMAN VALUES Lab												
CO	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1			1			2	1	3	3	2	1	3
CO2			2			2	2	3	2	2	1	3
CO3			2			2	2	3	2	1	1	3
CO4						1			2			1



HEAS DEPARTMENT, UD, RTU KOTA

HUMAN VALUES LAB MANUAL

Program Outcomes (POs) (Common to all Branches):

PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and Understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



HEAS DEPARTMENT, UD, RTU KOTA

HUMAN VALUES LAB MANUAL

I & II Semester

Common to all branches of UG Engineering & Technology

HUN101: Human Values Lab

Credit: (Non- graded)

OL+OT+2P

PS 1: Introduce yourself in detail. What are the goals in your life? How do you set your goals in your life? How do you differentiate between right and wrong? What have been your salient achievements and shortcomings in your life? Observe and analyze them. { **K2 Level; CO1**}

PS 2: Now-a-days, there is a lot of talk about many techno-genie maladies such as energy and material resource depletion, environmental pollution, global warming, ozone depletion, deforestation, soil degradation, etc. - all these seem to be manmade problems, threatening the survival of life Earth - What is the root cause of these maladies & what is the way out in opinion? On the other hand, there is rapidly growing danger because of nuclear proliferation, arms race, terrorism, breakdown of relationships, generation gap, depression & suicidal attempts etc. - what do you think, is the root cause of these threats to human happiness and peace - what could be the way out in your opinion? { **K3 Level; CO2**}

PS 3:

1. Observe that each of us has the faculty of „Natural Acceptance“, based on which one can verify what is right or not right for him. (As such we are not properly trained to listen to our „Natural Acceptance“ and may a time it is also clouded by our strong per-conditioning and sensory attractions).

Explore the following:



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HUMAN VALUES LAB MANUAL

- (i) What is „Naturally Acceptable“ to you in relationship the feeling of respect or disrespect for yourself and for others?
- (ii) What is „naturally Acceptable“ to you - to nurture or to exploit others?

Is your living in accordance with your natural acceptance or different from it?

2. Out of the three basic requirements for fulfilment of your aspirations - right understanding, relationship and physical facilities - observe how the problems in your family are related to each. Also observe how much time & effort you devote for each in your daily routine. { **K2 Level; CO3, CO4**}

PS 4:

1. a. Observe that any physical facility you use, follows the given sequence with time:

Necessary and tasteful - unnecessary but still tasteful - unnecessary and tasteless - intolerable b. In contrast, observe that any feeling in you is either naturally acceptable or not acceptable at all. If not acceptable, you want it continuously and if not acceptable, you do not want it any moment! 2. List down all your important activities. Observe whether the activity is of „I“ or of Body or with the participation of both or with the participation of both „I“ and Body.

3. Observe the activities within „i“. Identify the object of your attention for different

Moments (over a period of say 5 to 10 minutes) and draw a line diagram connecting these points. Try to observe the link between any two nodes. { **K4 Level; CO3** }

PS 5:

1. Write a narration in the form of a story, poem, skit or essay to clarify a salient Human Value to the children.

2. Recollect and narrate an incident in your life where you were able to exhibit wilful adherence to values in a difficult situation. { **K3 Level; CO2**}

PS 6: List down some common units (things) of Nature which you come across in your daily life and classify them in the four orders of Nature.



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HUMAN VALUES LAB MANUAL

Analysis and explain the aspect of mutual fulfilment of each unit with other orders. { **K2 Level; CO3** }

PS 7: Identify any two important problems being faced by the society today and analyze the root cause of these problems. Can these be solved on the basis of natural acceptance of human values? If so, how should one proceed in this direction from the present situation? {**K3 Level; CO3, }**

PS 8:

1. Suggest ways in which you can use your knowledge of Science/Technology/Management etc. for moving towards a universal human order.
2. Propose a broad outline for humanistic Constitution at the level of Nation. { **K3 Level; CO3** }

Project: Every student required to take-up a social project e.g. educating children in needy/weaker section; services in hospitals, NGO's and other such work i.e. social work at villages adopted by respective institute/college.



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HUMAN VALUES LAB MANUAL

GENERAL INSTRUCTIONS

- (1) Students must bring their lab manuals to the lab without fail and get them signed by the faculty-in charge.
- (2) Use of mobile phones during lab hours is strictly prohibited.
- (3) Should Wear Formal Dress only.
- (4) Should come to the lab in-time.
- (5) Should use the same system every time.
- (6) Students are not allowed into the lab without ID Cards.
- (7) All students should actively participate in the lab activities.
- (8) Students are evaluated based on their active participation and proper behavior.



HEAS DEPARTMENT, UD, RTU KOTA

HUMAN VALUES LAB MANUAL

Activities to be performed

1. For PS-1

- (a) Getting awareness about the need for value based Goal setting.
- (b) Students will differentiate between right and wrong on the basis of right understanding.
- (c) Students will also analyze his/ her achievements and shortcomings on the basis of self – exploration.

Activities to performed – making list of aspirations, introduction of self in the class, Group Discussion, Written Assignments.

- 2. For PS-2 :** Having awareness about various environmental, social and mental problems and finding out the way out on the basis of harmony in self , family, society and nature. Activities to be performed- written suggestions, presentations, Group Discussion, Poster making, plantation.

- 3. For PS-3:** Focus on the importance of right or wrong on the basis of Natural Acceptance. Understanding self, relationships and physical facilities by recognizing human happiness and harmony.



HEAS DEPARTMENT, UD, RTU KOTA

HUMAN VALUES LAB MANUAL

Activities to be performed- listing the problems of self, family and society, recognizing and analyzing them through Natural Acceptance, Presentations, written assignments.

For PS-4: Recognizing the needs of I (self) and body by listing physical facilities on the basis of required sequence and by listing the feelings in self on the basis of Natural Acceptance.

Activities to be performed – making a list of important activities, classifying them and make line diagram showing that activity is of self, body or both.

For PS – 5: Focus on the importance of Human Values in self and society.

Activities to be performed – Value based story, skit or essay written assignments, narrate in front of class or in writing regarding personal experience showing adherence to values in difficult situations.

For PS – 6: Having awareness about nature, its four orders and their mutual fulfillment.

Activities to be performed- written assignment, chart making.



HEAS DEPARTMENT,UD, RTU KOTA

HUMAN VALUES LAB MANUAL

For PS – 7: Identification, analyzing and solving problems of society on basis of natural acceptance and proceeding further.

Activities to be performed- News papers cuttings, presentations, group discussion.

For PS – 8: Focus on the use of value based science/ engineering knowledge for universal human order along with preparing out line for Humanistic constitution at the level of nation.

Activities to be performed - written assignments, case studies, presentation.