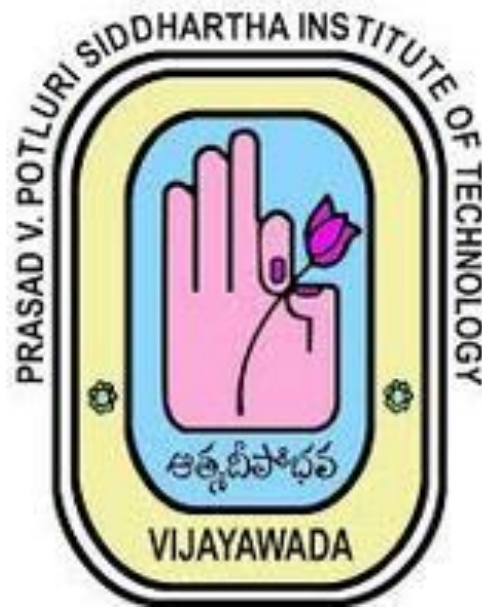


HANDBOOK ON HUMAN VALUES AND PROFESSIONAL ETHICS



PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY

Autonomous

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ABOUT THE INSTITUTE

Prasad V Potluri Siddhartha Institute of Technology established in 1998 is a pioneering self-financed Institution renowned for Academic excellence and Discipline. The college is sponsored by Siddhartha Academy of General and Technical Education, the premier Organization that runs 18 Educational Institutions in diverse fields of study. The college offers B.Tech programme in Computer Science Engineering (CSE), CSE - Artificial Intelligence and Machine Learning (CSM), CSE - Data Science (CSD), Information Technology (IT), Electronics and Communication Engineering (ECE), Mechanical Engineering (ME), Electrical and Electronics Engineering (EEE) and CIVIL Engineering (CE); M.Tech programme in ECE,ME and MBA. The college is located at Kanuru in Vijayawada. It is well connected by Rail, Road and Air. Situated in an area of 19.98 acres of Land, the college has all the infrastructural facilities with well-equipped Laboratories. A Monolithic RCC Structure in a built up area of 36,537sq.mts caters to the Academic needs of the students.

The Institution is Autonomous, approved by AICTE, Permanently affiliated to JNTUK, Kakinada and accredited by NAAC with A+ grade. All UG programmes are accredited by NBA. It is an ISO 9001-2015 certified Institution and is widely acclaimed for its quality standards. UGC accorded 2f / 12B Status. The government of Andhra Pradesh conferred A grade to the Institution. The college is placed in the band of 101 to 150 in the NIRF Innovation stream.

The Institution provides ample facilities for Research, Innovation and Entrepreneurial activities. Student of PVPSIT has the unique opportunity for holistic personality development through effective mentoring mechanism. The placement cell provides necessary career guidance and enables the students to secure placements. The highest pay package is 44lakhs.The Institution has MOUs with 80 reputed Industries.

Coherent to its vision, the college is keen on quality and constantly reminds the students of their social responsibility. The College encourages the students to participate in all Co-curricular and extra-curricular activities. Ample facilities are available for Indoor, outdoor games and Yoga. The student has every opportunity in participating NSS and NCC activities. A Plethora of opportunities are available to the student for participating in various literary and cultural events that enable them to improve their communication skills and organizational abilities. Gender equity is promoted through the Women's cell. Students play an active role in all aspects of Academic and Administrative bodies through the Students council.

VISION

To provide rich ambience for Academic and Professional Excellence, Research, Employability skills, Entrepreneurship and Social responsibility.

MISSION

To empower the students with Technical knowledge, Awareness of up-to-date technical trends, Inclination for research in the areas of human needs, Capacity building for Employment / Entrepreneurship, Application of technology for societal needs.

HUMAN VALUES

Human values promote inclusivity, diversity, and social justice, creating a community that is inclusive and accepts all individuals. When ethical and human values are integrated into an individual's life, they create a sense of balance, purpose, and meaning. The content of value education has to be universal, rational, natural, verifiable and leading to harmony. The process of value education has to be a process of self-exploration, rather than being prescriptive. The basic aspiration of a human being is continuity of happiness and prosperity. Quality education is the fundamental right of every Indian citizen. Prasad V Potluri Siddhartha Institute of Technology is committed to impart quality education and to create skilled human resources for the development of our nation.

OBJECTIVES:

(Engineering Ethics & Human Values)

- To create awareness, conviction & commitment to values for improving the quality of life through education, and for advancing social and human wellbeing.
- To understand the moral values that ought to guide the Engineering profession, Resolve the moral issues in the profession,
- Intended to develop a set of beliefs, attitudes, and habits that engineers should display concerning morality.
- To create an awareness on Engineering Ethics and Human Values.
- To appreciate the rights of others.

The prime objective of the Professional Ethics is to develop ability to deal effectively with moral complexity in engineering students of as follows:

VALUES:

Humans have the unique ability to define their identity, choose their values and establish their beliefs. All three of these directly influence a person's behavior. People will act congruent with their personal values or what they deem to be important. A value is defined as a principle that promotes well-being or prevents harm.

Personal values are defined as: —Emotional beliefs in principles regarded as particularly favorable or important for the individual. Our values associate emotions to our experiences and guide our choices, decisions and actions.

Types of Values

1. Values related to Right Conduct are:

(a) **Self-help Skills:** Care of possessions, diet, hygiene, modesty, posture, self reliance, and tidy appearance.

(b) **Social Skills:** Good behavior, good manners, good relationships, helpfulness, No wastage, and good environment, and

(c) **Ethical Skills:** Code of conduct, courage, dependability, duty, efficiency ingenuity, initiative, perseverance, punctuality, resourcefulness, respect for all, and responsibility

2. Values related to PEACE are: Attention, calmness, concentration, contentment, dignity, discipline, equality, equanimity, faithfulness, focus, gratitude, happiness, harmony, humility, inner silence, optimism, patience, reflection, satisfaction, self-acceptance, self-confidence, self-control, self-discipline, self-esteem, self-respect, sense control, tolerance, and understanding.

3. Values related to Truth are: Accuracy, curiosity, discernment, fairness, fearlessness, honesty, integrity (unity of thought, word, and deed), intuition, justice, optimism, purity, quest for knowledge, reason, self-analysis, sincerity, spirit of enquiry, synthesis, trust, truthfulness, and determination.

4. Values related to Love are: Acceptance, affection, care, compassion, consideration, dedication, devotion, empathy, forbearance, forgiveness, friendship, generosity, gentleness, humanness, interdependence, kindness, patience, patriotism, reverence, sacrifice, selflessness, service, sharing, sympathy, thoughtfulness, tolerance and trust.

5. Values related to Non-violence are: Benevolence, compassion, concern for others, consideration, forbearance, forgiveness, manners, happiness, loyalty, morality, and universal love, appreciation of other cultures and religions, brotherhood, care of environment, citizenship, equality, harmlessness, national awareness, perseverance, respect for property, and social justice.

INTEGRITY: Integrity is defined as the unity of thought, word and deed (honesty) and open mindedness. It includes the capacity to communicate the factual information so that others can make well- informed decisions. It yields the person's 'peace of mind', and hence adds strength and consistency in character, decisions, and actions.

RESPECT: This is a basic requirement for nurturing friendship, team work, and for the synergy it promotes and sustains. The principles enunciated in this regard are:

- ✓ Recognize and accept the existence of other persons as human beings, because they have a right to live, just as you have.

- ✓ Respect others' ideas (decisions), words, and labor (actions). One need not accept or approve or award them, but shall listen to them first. One can correct or warn, if they commit mistakes. Some people may wait and watch as fun, if one falls, claiming that they know others' mistakes before and know that they will fall! Appreciate colleagues and subordinates on their positive actions. Criticize constructively and encourage them. They are bound to improve their performance, by learning properly and by putting more efforts.

CARING: Caring is feeling for others. It is a process which exhibits the interest in, and support for, the welfare of others with fairness, impartiality and justice in all activities, among the employees, in the context of professional ethics. It includes showing respect to the feelings of others, and also respecting and preserving the interests of all others concerned. Caring is reflected in activities such as friendship, membership in social clubs and professional societies, and through various transactions in the family, fraternity, community, country and in international councils.

HONESTY: Honesty is a virtue, and it is exhibited in two aspects namely,

- Truthfulness
- Trustworthiness.

Truthfulness is to face the responsibilities upon telling truth. One should keep one's word or promise. By admitting one's mistake committed (one needs courage to do that!), it is easy to fix them. Reliable engineering judgment, maintenance of truth, defending the truth, and communicating the truth, only when it does good to others, are some of the reflections of truthfulness.

COURAGE: Courage is the tendency to accept and face risks and difficult tasks in rational ways. Self-confidence is the basic requirement to nurture courage. Courage is classified into three types, based on the types of risks, namely

- Physical courage,
- Social courage, and
- Intellectual courage.

VALUING TIME: Time is a rare resource. Once it is spent, it is lost forever. It can't be either stored or recovered. Hence, time is the most perishable and most valuable resource too. This resource is continuously spent, whether any decision or action is taken or not. The history of great reformers and innovators have stressed the importance of time and valuing time.

COOPERATION: It is a team-spirit present with every individual engaged in engineering. Co-operation is activity between two persons or sectors that aims at integration of operations (synergy), while not sacrificing the autonomy of either party. Further, working together ensures, coherence, i.e., blending of different skills required, towards common goals.

COMMITMENT: Commitment means alignment to goals and adherence to ethical principles during the activities. First of all, one must believe in one's action performed and the expected end results (confidence). It means one should have the conviction without an iota of doubt that one will succeed. Holding sustained interest and firmness, in whatever ethical means one follows, with the fervent attitude and hope that one will achieve the goals, is commitment. It is the driving force to realize success.

EMPATHY: Empathy is social radar. Sensing what others feel about, without their open talk, is the essence of empathy. Empathy begins with showing concern, and then obtaining and understanding the feelings of others, from others' point of view. It is also defined as the ability to put one's self into the psychological frame or reference or point of view of another, to know what the other person feels. It includes the imaginative projection into other's feelings and understanding of other's background such as parentage, physical and mental state, economic situation, and association. This is an essential ingredient for good human relations and transactions.

SELF-CONFIDENCE: Certainty in one's own capabilities, values, and goals, is self-confidence. These people are usually positive thinking, flexible and willing to change. They respect others so much as they respect themselves. Self-confidence is positive attitude, wherein the individual has some positive and realistic view of himself, with respect to the situations in which one gets involved. The people with self-confidence exhibit courage to get into action and unshakable faith in their abilities, whatever may be their positions.

CHARACTER: It is a characteristic property that defines the behavior of an individual. It is the pattern of virtues (morally-desirable features). Character includes attributes that determine a person's moral and ethical actions and responses. It is also the ground on which morals and values blossom. People are divided into several categories, according to common tendencies such as ruthless, aggressiveness, and ambition, constricting selfishness, stinginess, or cheerfulness, generosity and goodwill.

PROFESSIONAL ETHICS

INTRODUCTION

Engineers have an ethical and social responsibility to themselves, their clients and society. Practically (although there is much debate about this), engineering ethics is about balancing cost, schedule, and risk. Engineering ethics is a means to increase the ability of concerned engineers, managers, citizens and others to responsibly confront moral issues raised by technological activities. The awareness of moral issues and decisions confronting individuals and organizations are involved in Engineering & Technology.

ENGINEERING ETHICS: WHY STUDY ENGINEERING ETHICS?

➤ Training In Preventive Ethics:

- Stimulating the moral imagination
- Recognizing ethical issues
- Developing analytical skills
- Eliciting a sense of responsibility
- Tolerating disagreement and ambiguity

➤ Clearly Wrong Engineering Practices:

- Lying and deliberate deception
- Withholding information
- Failing to adequately promote the dissemination of information
- Failure to seek out the truth
- Revealing confidential or proprietary information
- Allowing one's judgment to be corrupted.

➤ Questionable Engineering Practices:

- Trimming – —irregularities to make data look extremely accurate and precise.
- Cooking – —retaining only those results that fit the theory and discarding others.
- Forging – —inventing some or all of the research data
- Plagiarism – misappropriating intellectual property.
- Conflicts of interest (such as accepting gifts.) Actual, Potential, Apparent.

VALUES AND ETHICS FOR STAKEHOLDERS

The success of an Institution's Mission and vision is driven by value-based ethical behaviour of its committed faculty members, officers, staff and students. Thus, an institution is thriving for imbibing core value and ethical behaviour into the daily interactions of stakeholder groups. These stakeholders of an institution, be the faculty members, students, administrators or others, should be guided by the following core values:

Values and Ethics for Stakeholders:

- a) Integrity –adhering to a conduct of duties in righteous manner and in accordance with the principles of honesty, trust, transparency and fairness.
- b) Trusteeship- Operating in an efficient, ethical and true manner while ensuring group participation and a system of check and balances within an institution.
- c) Harmony- Balancing the diversity and difference through a culture of tolerance, discussion and forgiveness among stakeholders.
- d) Accountability - Enabling the environment of openness and trust to accommodate mistake and to encourage individual in taking the responsibility of one's action.
- e) Inclusiveness – adopting standards, policies and procedure to promote and ensure equal opportunity, without any discrimination against an individual or a group, for education, employment, promotion and other activities in an institution.
- f) Commitment – Dedicating to the vision and mission of the institution while cultivating one's knowledge, skill and attitudes to achieve excellence in due time and regulatory boundaries.
- g) Respectfulness – Creating an environment of mutual respect, trustworthy and quality interaction as well as fair participation by functionaries and beneficiaries of the institution.
- h) Belongingness- fostering a shared vision of institute to make everyone feel secure, supported, accepted and included.
- i) Sustainability – Ensuring optimal resource utilization-economic, environmental and social-to achieve long lasting and safe future. The Institution has taken every step to imbibe these values in the students. All these values are practiced and imparted to the students for the peaceful society.
