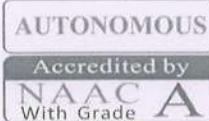


# DVR & Dr. HS MIC College of Technology

ISO 9001:2015 Certified Institute  
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)  
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## Handbooks, Manuals and Brochures in Human values and Professional Ethics

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PRINCIPAL  
DVR & Dr. HS MIC College of Technology  
Kanchikacherla, N.T.R. Dt.  
Andhra Pradesh, India – Pin: 521180

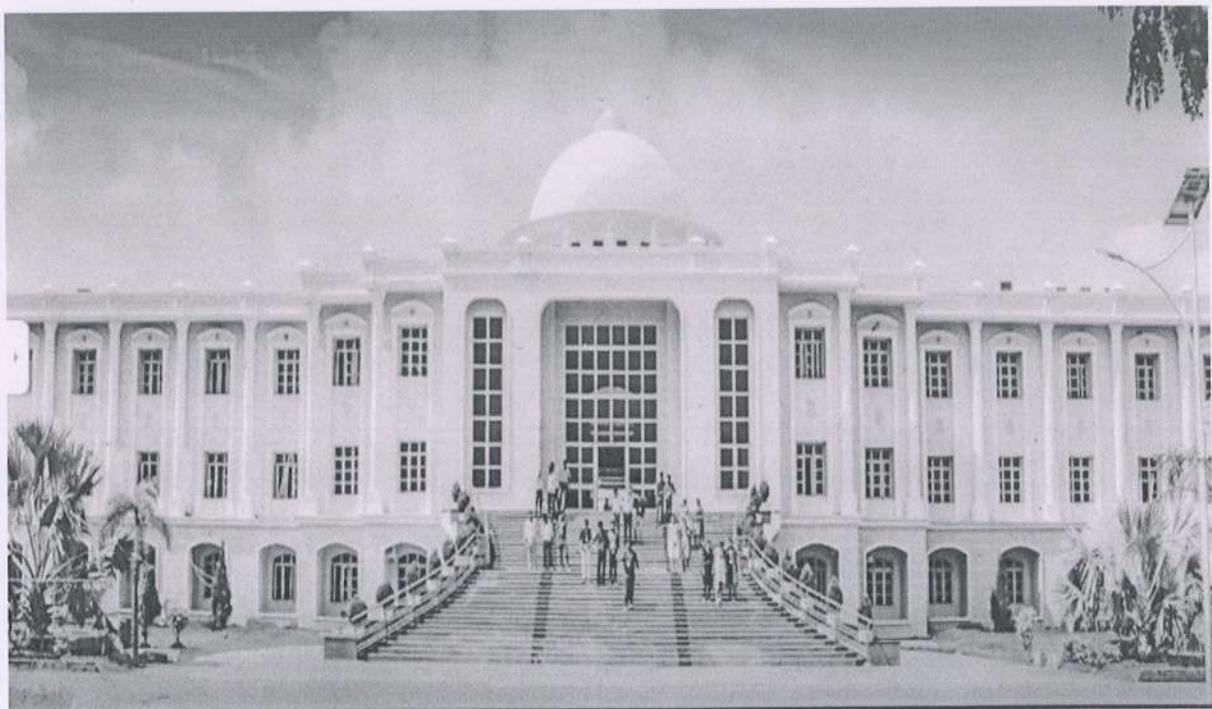
## 1. About the college

MIC Odyssey began in 2002 in Kanchikacherla, a village that boasts of idyllic beauty and serene atmosphere suited for scholastic pursuits. Right from its inception, the College has crossed new vistas making inroads into Quality Education under the dynamic stewardship of our Visionary Chairman Dr. MV RamanaRao, M.E., Ph.D., CEO & MD MIC Electronics Ltd., Hyderabad.

MIC's tryst with destiny began in 2002 with three branches of B.Tech., (ECE, CSE, and EEE). In 2004, the Mechanical Engineering branch in B. Tech., MCA & MBA courses were added. The College was granted permission to run M.Tech., in Machine Design, PE&D, VLSI&ES, and CSE in 2012. APSCHE approved diploma courses in 2012-13 with two branches: EEE and ME. In 2013-14, two more branches in diploma viz., CE and ECE were approved. In 2013, permission was accorded for B. Tech., in the Civil Engineering branch and 2017, for B.Tech., in Information Technology.

The College was approved by the All India Council for Technical Education (AICTE), New Delhi, and is permanently affiliated with the JNTUK, Kakinada .

  
PRINCIPAL  
DVR & Dr. HS MIC College of Technology  
Kanchikacherla, N.T.R. Dist.



## VISION

To nurture excellence in the field of Engineering by imparting quality technical education, inculcating core values with skills, knowledge and behavior to the learners, promoting research and technical services with global competence to the societal requirements.

## MISSION

- To provide the state of the art of the infrastructure and instruction preparing the students professionally adept and intellectually adept.
- To provide the qualified and experienced teaching faculty to mould the learners to compete in contemporary technical world.
- To provide socio-ethical exposure and holistic attitude in preparing responsible and informed citizens to build the nation.

- To provide international standards in conducting research, offering technical services by cutting edge technologies to meet the current and future challenges of technological development



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## Scope:

Engineering is transforming the world by creating valuable products for people's comfort. Engineering ethics refers to the capacity and obligation of an engineer to evaluate his choices in light of the welfare of society as a whole. When some crucial decisions need to be made, engineering professionals and engineering organizations must be confronted by the study of moral issues. Engineering research and practice demand that the task at hand takes into account all the benefits and drawbacks of a particular activity and how it is carried out. Many case studies are used to raise awareness among engineering students from all disciplines of the importance of teaching engineering ethics at academic institutions. The students gain awareness by studying engineering ethics.

Numerous factors affect engineering's ethical standards, including:

1. One significant element with far-reaching effects is engineering as an experiment for the benefit of mankind.
2. Ethical conundrums make engineering decisions rather challenging.
3. An engineer's main concern is the risk to public safety as a social obligation.
4. In the global setting, technological advancement might place a high demand on engineering expertise.
5. Moral principles and responsible behavior will be very important in making decisions.

Engineering programs that cover engineering ethics assist students get ready for the workforce. The ability to think clearly about ethical dilemmas and the context in which they originate is a particular benefit that engineering students who study ethics gain. Students that study ethics gain communication, logic, and reflective thinking abilities that are broadly relevant. These talents strengthen students' capacities and support their participation in other engineering curriculum components including group projects and internships.

## Objectives:

The following are the main goals of understanding and promoting human values:

1. To raise understanding of engineering ethics and human values
2. To comprehend the moral principles that should guide the engineering profession.
3. To encourage moral, social and loyal behavior.
4. Understanding other people's rights.
5. To resolve moral concerns within the profession.

6. To support moral judgments made about the profession.
7. Created to establish a set of morality-related convictions, attitudes, and behaviors that Engineers ought to adopt.

### **Ethically Valid and Responsible Conduct**

1. The capacity and willingness to act morally responsibly.
2. Moral awareness (ability to identify ethical issues in engineering such as plagiarism and patenting).
3. Persuasive moral reasoning (understanding, evaluating opposing viewpoints)
4. Moral coherence (making logically sound conclusions based on evidence)
5. Moral imagination (looking for alternatives to the obvious solutions to problems and being open to innovative ones)
6. To share and defend one's moral viewpoints with others.
7. Moral hope, which is the idea that moral disputes can be settled via reasoned discussion.
8. Respect for people, which entails being considerate of others in addition to oneself.
9. Acceptance of legitimate differences in moral opinions and tolerance of diversity, including respect for racial and religious diversity.

## HUMAN VALUES

The Mahatma Gandhi Institute of Technology places a high focus on teaching its students, staff, and teaching faculty moral principles. We accept the reality that human values compel us to consider the human factor while interacting with other people. We are also aware that respect, acceptance, appreciation, affection, and empathy for other people are fundamental human values. With the aim, we spread among all of our stakeholders the idea that human values are significant since they aid in our personal development. We thoroughly enlighten everyone in our Institute about the following values in order to achieve this.

**Integrity:** Integrity can be viewed as the coherence of thought, word, and action with honesty and open mindedness. It comprises the ability to convey knowledge so that it aids in the proper and fruitful decision-making of others. Integrity enhances strength and consistency in behavior, judgment, and decision-making. This creates a path for achievement. It inspires people to perform their jobs competently as well as to flourish in their professional endeavors. By effectively carrying out the task at hand, it enables individuals to take ownership of the duty and gain respect from others. It displays how consistently one's views, feelings, and behavior are in line with morally sound standards. In the workplace, honesty and dependability are desirable qualities. Without appropriate behavior, distrust can lower standards and result in failure by creating a tense and uncomfortable work environment. Strong work ethics demonstrate to coworkers, students, and patients that you are dependable and able to carry out your duties with diligence. One can differentiate themselves as a reliable team member by being courteous in their interactions, acting with respect, and having the guts to assume responsibility.

**Honesty:** Truthfulness and dependability are two qualities that are manifestations of the virtue of honesty. Truthfulness comprises the courage to take on the obligations that come with speaking the truth. One ought to honor their commitments. In order to take the first step in correcting a mistake, one must have the bravery to admit their error. Some of the reflections of truthfulness include sound judgment, maintaining the truth, protecting the truth, and sharing the truth so that it may benefit others. Being trustworthy means upholding your moral principles and accepting accountability for your actions. Mutual trust and adherence to the law should guide human behavior. To win by following by the laws or norms both legally and morally, they should act in

the proper manner. They ought to be able to win people over with their dependability and honesty. They should be able to address others' immoral behavior and, if required, take a firm, moral stance.

Many things reflect honesty. The following are some typical ways that honesty might be reflected:

- Beliefs, such as intellectual integrity.
- Communication in any form, including speech and writing.
- Making decisions based on concepts as well as having the ability to use reasoning to make decisions.
- The ways, when, where, and goals that actions are conducted to attain their objectives.
- Expressing sincerity by choosing a position and being open about the outcomes.

Contrarily, some behaviors that result in dishonesty include lying, purposeful deception, withholding information, failing to seek the truth, failing to protect confidentiality, and making professional decisions while being swayed by outside forces.

**Respect for others:** Developing a sense of community, humanism, and camaraderie among people begins with respect for others. In this case, the following guidelines apply:

- Everyone has the right to live with respect, so it is important to acknowledge and accept that other people are real.
- One should appreciate the thoughts, words, deeds, and labor of others. However, one should listen to them and respect their point of view even if one does not accept, approve, or award them. If someone makes a mistake, they might suggest, counsel, or correct them. Colleagues and subordinates should be thanked for their constructive actions. In an effort to encourage someone and help them better their work, one should offer constructive feedback. By being driven in this way, students will learn more and put more effort into the things they take on, which will inevitably lead to an improvement in their performance.
- One should be kind to others and give them room to develop. This will help others find their inner power and attain their objectives.

**Living Peacefully:** Living a peaceful life by understanding that inner peace comes from inside helps to promote peace to one's family, workplace, and ultimately the entire globe. Peace can

only be spread by those who are at peace with themselves. A gift that you do not own yourself is not something you can give. By establishing order in one's own life via self-control, discipline, and a sense of responsibility, one can live in peace. One should cultivate pure thoughts that enable them to feel affection for others, have a kind demeanor, and refrain from hurting others through their words, actions, or thoughts. A disposition of service to others and happiness should be felt and shown to others. One should apply their talents to enhancing creativity in order to foster a positive working environment. To experience the academic environment in the institution to the utmost, one should lead a healthy and physically fit life. Any measure possible should be used to assist the less fortunate. It is forbidden to physically, verbally, or emotionally harm, mistreat, or harass other people.

**Sharing:** Care is the mother of sharing. Sharing could be defined as the transfer of knowledge through instruction, education, training, and the sharing of knowledge with others while also exchanging knowledge, experience, commodities like material things, and facilities. This transfer should be sincere, legal, constructive, voluntary, and free from any pressure, coercion, or hope of reward. The sharing process promotes society by enabling experience, knowledge, and insight to reach more individuals more quickly. Ethics should serve as the driving force behind sharing. Sharing increases one's happiness and riches. Sharing lessens misery and crime. It eliminates fear and terror and paves the road for peace. Sharing opens the door to prosperity, which gives it longevity.

**Morals:** Morals are the welfare principles that the knowledgeable articulate based on their knowledge and experience. One should be aware of what should or shouldn't be done in a particular circumstance. Things that are proper or wrong in terms of how to handle a situation and in terms of the policies at play.

**Civic Virtues:** Citizens have civic responsibilities and rights, and they also play a crucial role in society and the environment. Voting, volunteering, organizing, or contributing to the welfare of individuals or groups are all examples of civic virtues that one might display. Taxes must be paid on time, the environment must be kept clean and green, pollution of the water, land, and air must be avoided by maintaining good hygiene and correct rubbish disposal, and traffic safety

regulations must be followed. Duties include doing your part to create a healthy society by abstaining from all intoxicants. Rights include exercising one's right to vote and the right to access services like healthcare, community centers, transportation, and communications. One has the right to seek legal redress when doing so is in their own and/or society's best interests.

**Caring:** Being compassionate is taking ownership of other people. It is a procedure that demonstrates concern for and support for the wellbeing of others in all workplace activities, with fairness, impartiality, and justice within the context of professional ethics. Respecting and maintaining the interests of all parties involved as well as the sentiments of others are all part of caring. Friendship, participation in social activities, professional relationships, and numerous interactions in the family, fraternity, community, country, and in international councils are all examples of activities where caring can be seen.

**Valuing Time:** valuing time since it is the substance of life. Time is permanently lost after it has passed. It cannot be recovered or stored. Time could therefore be seen as one of the most valuable and perishable resources. Whether or not a decision or action is taken, this resource is continuously used. Time is valuable, and great reformers and inventors have recognized this. It is widely accepted that time and tide do not stand still, and that procrastination is the thief of time.

**Courage:** Courage is the capacity to logically accept and confront hazards as well as embark on challenging activities when necessary. The fundamental condition for developing courage is self-assurance. Courage can be utilized to overcome a variety of problems, whether they are physical, social, or intellectual in nature, or even a combination of the aforementioned. This depends on the type of risk involved.

**Courage to Combat Physical Challenges:** To succeed in this, one must have the necessary physical stamina and strength.

**Courage to Combat Social Challenges:** combative spirit Social challenges: These decisions and activities to effect change are based on one's support or opposition of particular social behavioral patterns. To mobilize and encourage the team members for a social cause, this calls for leadership skills, such as empathy and the willingness to make sacrifices when necessary.

**Courage to Combat Intellectual Challenges:** To overcome intellectual challenges, one must have the courage to do so. This courage can be developed in people through information, experience, ethical approaches, education, and training. Strengths, Weakness, Opportunities, and Threat analysis, or SWOT analysis, should be conducted by individuals. When making decisions and before taking action, it is crucial to estimate the risks, weigh them against the strengths, and then project the outcomes. Reference should be made to past experiences, both one's own as well as those of others. To successfully achieve the intended ethical goals via ethical means, one should equip themselves as well as the team to plan and act with confidence. However, it's also crucial to keep in mind that overconfidence might pose a threat to success, therefore it's best to avoid having an overconfident attitude at all times. It is important to research both current and potential risks as well as opportunities. Planning should be done to take advantage of these opportunities and to counter dangers. By using anticipatory management, one can bravely take on upcoming difficulties.

**Cooperation:** Working collaboratively is what it means to cooperate. While neither party's individuality is compromised, cooperation leads to the synergistic integration of operations between individuals, sectors, and teams. Working together also ensures the mixing of various abilities needed to achieve shared objectives.

Cooperation is the ability to comprehend people and think and act as a team. Through activities with a goal in mind, cooperation fosters beneficial coordination. To ensure that the productivity is maximized, it is crucial to plan the order and priority of the task. Work completed with teamwork produces a synergistic, multiplicatively beneficial outcome. It helps to maximize the outputs, including quantity, quality, effectiveness, and efficiency of the end output while limiting the input resources, including time.

Conflicts between people's egos, a lack of motivation and leadership, conflicts of interest, and resistance among team members to accepting leadership are all obstacles to effective collaboration. Conflicts of interest arising from regional, religious, linguistic, caste, or gender differences should always be avoided. It is important to promote and uphold a professional work orientated attitude at all times. Lack of cooperation is also a result of ignorance and lack of interest.

Cooperation is facilitated by careful planning, inspiration, effective leadership, encouraging and rewarding teamwork, professionalism, and humanism, which in turn promotes productive work output. This needs to be handled fairly and respectfully.

**Empathy:** Understanding how others feel is empathy. In order to be empathetic, one must care about others. It involves being aware of other people's emotions from their perspective. It also refers to the capacity to place oneself in the psychological context, frame of reference, or point of view of another in an effort to comprehend how they are feeling. For successful commerce and interpersonal relationships, this is a necessary component.

**Commitment:** Commitment shows that the acts were carried out in accordance with the same moral principles and goals. One should act appropriately after giving the situation due thought and skilled analysis. Once decisions have been made, one should feel confident in their actions. What drives one to success is commitment. All professions require this as a requirement. The commitment of executives in higher ranks will boost employee engagement. Unquestionably, putting in a lot of work will pay off financially for the company, the employer, the employee, and ultimately for society and the nation.

**Character:** Character is the set of morally virtuous traits. The mindset that guides a person's moral and ethical behavior is referred to as character. People differ not only in the kind but also in the strength of their character. The building of a morally upright character is just as important as the intellectual development of students. If not accompanied by a morally upright disposition, increased intelligence or athletic talent could readily be used against the community.

**Values:** Human values are described as "principles that advance wellbeing or guard against harm." Parents, religious leaders & gurus in daily life, and teachers at the institute level are all incharges of instilling and advancing human ideals. A pleasant and peaceful human civilization can be ensured by human principles. At the Mahatma Gandhi Institute of Technology, we educate and lead numerous value-based activities to foster and instill these principles in the staff and students.

### Types of Values

These values pertain to right conduct are:

- (a) **Self-help Skills:** Care for things, a healthy diet, good cleanliness, modesty, posture, independence, and a neat look.
- (b) **Social Skills:** Good conduct, good manners, positive interpersonal interactions, helpfulness, no waste, and a good atmosphere.
- (c) **Ethical Skills:** Code of conduct, bravery, reliability, duty, efficiency, resourcefulness, initiative, persistence, punctuality, and responsibility.

**Spirituality** A lifestyle that emphasizes ongoing awareness and appreciation of the spiritual aspect of the mind and its growth is known as spirituality. Both the worldly and spiritual aspects of an individual and of society as a whole need to be in harmony.

Spirituality improves mental balance, which can result in more effective creativity, communication skills, and the understanding of the person as a living human being rather than a lifeless machine. Respect for others, acceptance of others, a long-range perspective with the capacity for in-depth study, and collaboration are all encouraged by spirituality. When one is spiritual, their nature is more stable, and they are better able to lead rather than rule others. For greater results, spiritual people are always willing to share rewards and responsibilities with others.

A person's ability to adjust to difficult and changing circumstances is made more flexible by their spirituality. Make room for everyone's ideas and contributions. People should be taught to accept and accept themselves as they are. A team's leader can inspire the team members to think and act as a unit by combining their individual strengths. Empathy and tolerance are spirituality's reflections.

**Truth:** Accuracy, discernment, fairness, courage, honesty, integrity (unity of thought, word, and deed), intuition, justice, optimism, purity, pursuit of knowledge, logic, self-evaluation, sincerity, spirit of inquiry, synthesis, trust, truthfulness, and resolve.

**Love:** 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 are all positive traits.

**Self-Confidence:** Confidence in one's own abilities, values, and aspirations is referred to as having self-confidence. Positive thinkers are typically those who are self-assured. They are adaptable and changeable. They hold themselves and others in the same regard. A person who has self-confidence has a good attitude and a realistic image of themselves in relation to the situations in which they find themselves. Those that are courageous and self-assured act with unwavering faith in their talents. Threats and difficulties do not faze them since they are equipped to handle them.

People that have self-confidence are flexible, willing to learn from others, and willing to take a stand. They express themselves and speak honestly. They offer fair credit and respect other people's work.

## PROFESSIONAL ETHICS

The DVR & Dr. HS MIC College of Technology works to enhance education, research and discussion of ethics and human values while encouraging ongoing inquiry into significant ethical concerns in private and public life. We investigate the relationship between the issues that professionals face and the social and political frameworks within which they operate. We discuss the moral dilemmas that all citizens encounter as they make decisions that have a significant impact on both the present and the future of their society. Professionalism is the behavior or traits that define or distinguish a profession or professional; it suggests high-quality work or services. How members of a professional organization should or should not have an impact on others while exercising their profession is governed by professional ethics.

In order to achieve this, we outline the kind of professional ethics we encourage at our Institute below.

**Common Morality:** A fundamental set of moral standards known as common morality is made up of a collection of laws and ethical precepts that together form an accepted system of right and wrong. Its fundamental traits are impartiality and universality. A single moral code that all sane adults share makes up common morality.

**Personal morality or personal ethics:** The collection of moral principles that a person upholds is known as personal morality or personal ethics. Our personal moral convictions mostly and closely align with universally accepted moral standards including nonviolence, honesty, loyalty, and satisfaction. However, there may be certain instances where our personal moral convictions and conventional wisdom diverge, particularly when conventional wisdom appears to be ambiguous or in flux. The collection of rules that professionals follow is known as professional ethics. Every profession, including those in accounting, business, medicine, law, and pharmacy, has its own set of professional ethics.

The following are some crucial aspects of professional ethics:

- **Formal code:** Professional ethics are typically spelled out in a formal code, unlike common morality and individual morality. Several elements of the relevant professions promote several such codes.

- Focus: The issues that are significant in a particular field are the focus of that profession's professional codes of ethics.
- Precedence: Professional ethics prevail above personal morality in interpersonal interactions.
- Two dimensional: There are two aspects to professional ethics, notably:
  - Refraining from and combating evil
  - Promoting positive deeds.

**Role morality:** This refers to the moral duties based on unique positions and connections. For instance, parents have a set of responsibilities to their kids, such as not harming them, feeding them, and fostering their development. A political figure has a moral responsibility to advance the happiness of the populace. One illustration of role morality is seen in professional ethics.

**Work ethics:** Work ethics are a collection of beliefs about the worth of labor that serve as the motivational direction. It is a set of principles founded on diligence and hard effort. It also involves a conviction that work has moral value and can develop good character. Becoming dependable, taking initiative, or learning new skills are all examples of good work ethics. Work ethics are aimed at ensuring the following:

- Economic benefit: obtaining employment, building wealth, and receiving pay.
- Wealth and profit productivity.
- Security at work.
- Workplace conditions: health and cleanliness.
- Family: to maintain privacy.
- Contractual, pension, and retirement benefits are examples of security and stability.

**Providing opportunities:** For everyone based on their qualifications without prejudice.

Employees that display high work ethics should be chosen for jobs with greater responsibility and eventually promoted. Work ethics are a group of allied virtues that are crucial to the creation of a positive workplace culture.

**Be Respectful of Confidentiality:** Respect confidentiality at all times. Respecting confidentiality is abiding by a set of guidelines or a promise that prevents you from sharing information with third parties without their consent. You will receive information in confidence throughout your career, either from the organization or from coworkers, and it is crucial to uphold these confidences.

**Moral Autonomy:** Decisions and behaviors that are taken morally autonomously are those that are supported by moral concern for other people and an understanding of sound moral grounds. The ability to think logically about moral matters based on moral concern is another way to define moral autonomy. This autonomy is threatened by regular performance reviews, strict deadlines, and apprehension about international competition.

Management will discourage moral autonomy and personnel may be forced to seek support from their professional societies and other sources outside the firm for moral support if it prioritizes profitability over consistency in quality and the retention of steady employees. Ability to act morally independently:

Expertise in identifying moral issues and the capacity to tell them apart from other issues and relate them to difficulties. This comprises:

- Capabilities for understanding, outlining, and critically evaluating arguments about many facets of moral dilemmas.
- The capacity to develop thorough and coherent opinions based on information.
- Knowledge of alternative approaches to the problems and original fixes for realistic problems.
- Sensitivity to actual challenges, especially a readiness to accept and deal with uncertainty when making choices.
- Using reasoned discussion to settle moral disputes and foster tolerance for various viewpoints among morally responsible individuals.
- Upholding one's moral standards.

**Authority:** Independence in decision-making and action is what authority is. Depending on the circumstance, it offers freedom for action that is specified within bounds. Authority and autonomy are distinct concepts. Respect for authority and moral autonomy are compatible. They don't oppose one another. When the moral autonomy of the staff and the authority of the official

with a higher designation collide, the two parties should address the situation and come to an understanding of each other's boundaries.

Lead by example applying the guidelines will help you become more professional inside your company, but it won't be complete until you have an educational impact on those above and below you. You must lead by setting a positive example. Living a model life both inside and outside of the organization is what it means to be a professional. Today, professionalism is highly appreciated by every firm, and there are job openings at any point of time for professionals. Apply the golden principles of ethics, and you'll have a lovely, successful job.

# **PROFESSIONAL ETHICS IN CURRICULUM Regulation MIC 18**



**II Year, Semester- I(3<sup>rd</sup> Semester)**

S.No	Course Code	Course Category	Course Title	Hours per week			Total Contact Hours	Credit s
				Lecture	Tutoria l	Practical		
1	18CS3T01	BSC	Probability & Statistics	3			3	3
2	18CS3T02	PCC	Object Oriented Programming	3			3	3
3	18CS3T03	PCC	Advanced Data Structures	3			3	3
4	18CS3T04	ESC	Digital Logic Design	3			3	3
5	18CS3T05	HSMC	Effective Technical Communication	3			3	3
6	18CS3L07	PCC	Object Oriented Programming Lab			4	2	2
7	18CS3L08	PCC	Advanced Data Structures Lab			4	2	2
8	18CS3L09	ESC	R programming Lab			4	2	2
9	18CS3T06	MC	Indian Constitution	2			2	--
10	18CS3L10	P	Technical Seminar	1			1	1
<b>Total Number of Credits</b>								<b>22</b>

**II Year, Semester- II(4<sup>th</sup> Semester)**

S.No	Course Code	Course Category	Course Title	Hours per week			Total Contact Hours	Credit s
				Lecture	Tutoria l	Practica l		
1	18CS4T01	PCC	Discrete Mathematics	2			2	2
2	18CS4T02	PCC	Database Management Systems	3			3	3
3	18CS4T03	PCC	Computer Organization & Architecture	2			2	2
4	18CS4T04	PCC	Operating Systems	3			3	3
5	18CS4T05	HSMC	Managerial Economics and Financial Analysis	3			3	3
6	18CS4T06	HSMC	Professional Ethics	3			3	3
7	18CS4L07	PCC	Operating Systems & linux programmingLab			4	2	2
8	18CS4L08	PCC	Database Management Systems Lab			4	2	2
9	18CS4L09	ESC	Python Programming Lab			4	2	2
<b>Total Number of Credits</b>								<b>22</b>



## PROFESSIONAL ETHICS

II Year – II Semester

Lecture: 3      Practical: 0

Internal Marks: 30

Credits: 3      Tutorial: 0

External Marks: 70

### Course Objectives:

- To give basic insights and inputs to the student to inculcate Human values to grow as a responsible human beings with proper personality.
- Professional Ethics instills the student to maintain ethical conduct and discharge their professional duties.

### UNIT I: Principles for Harmony

Truthfulness – Customs and Traditions – Value Education – Human Dignity – Human Rights – Fundamental Duties – Aspirations and Harmony (I, We & Nature) – Gender Bias – Emotional Intelligence – Salovey – Mayer Model – Emotional Competencies – Conscientiousness.

### UNIT II: Engineering Ethics and Social Experimentation:

History of Ethics – Need of Engineering Ethics – Senses of Engineering Ethics – Profession and Professionalism – Self Interest – Moral Autonomy – Utilitarianism – Virtue Theory – Uses of Ethical Theories – Deontology – Types of Inquiry – Kohlberg's Theory – Gilligan's Argument – Heinz's Dilemma – Comparison with Standard Experiments – Learning from the Past – Engineers as Managers – Consultants and Leaders – Balanced Outlook on Law – Role of Codes – Codes and Experimental Nature of Engineering.

### UNIT III: Engineers' Responsibilities towards Safety and Risk:

Concept of Safety – Safety and Risk – Types of Risks – Voluntary v/s Involuntary Risk – Consequences – Risk Assessment- Accountability- Liability – Reversible Effects – Threshold Levels of Risk – Delayed v/s Immediate Risk – Safety and the Engineer – Designing for Safety- Risk – Benefit Analysis- Accidents.

### UNIT IV: Engineers' Duties and Rights:

Concept of Duty – Professional Duties- Collegiality- Techniques for Achieving Collegiality – Senses of Loyalty- Consensus and Controversy – Professional and Individual Rights – Confidential and Proprietary Information – Conflict of Interest – Ethical egoism – Collective Bargaining – Confidentiality – Gifts and Bribes – problem solving – Occupational Crimes – Industrial Espionage – Price Fixing – Whistle Blowing.

### UNIT V: Global Issues:

Globalization and MNCs – Cross Culture Issues – Business Ethics – Media Ethics- Environmental Ethics – Endangering Lives – Bio Ethics – Computer Ethics – War Ethics – Research Ethics – Intellectual Property Rights.

### Outcome:

- It gives a comprehensive understanding of a variety issues that are encountered by every professional in discharging professional duties.



- It provides the student the sensitivity and global outlook in the contemporary world to fulfill the professional obligations effectively.

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**UNIVERSAL HUMAN  
VALUES 2 Understanding  
Harmony  
IN CURRICULUM  
Regulation MIC 20**

**B.TECH VII SEMESTER**

S.N o	Course Code	Course Catego ry	Course Title	Hours per week			Conta ct Hours	Credi ts	
				Lectu re	Tutori al	Practi cal			
<b>Professional Elective-III</b>									
1	20CS7T01	PEC-III	Software Project Management	3	0	0	3	3	
2	20CS7T02		Cloud Computing						
3	20CS7T03		Cryptography & Network Security						
<b>Professional Elective-IV</b>									
4	20CS7T04	PEC-IV	Human Computer Interaction	3	0	0	3	3	
5	20CS7T05		Mobile Computing						
6	20CS7T06		High-Performance Computing						
<b>Professional Elective-V</b>									
7	20CS7T07	PEC-V	Software Architecture and Design Patterns	3	0	0	3	3	
8	20CS7T08		Adhoc & Sensor Networks						
9	20CS7T09		Social Network Analysis						
10	<b>Open Elective-III</b>			3	0	0	3	3	
11	<b>Open Elective-IV</b>			3	0	0	3	3	
8	20CS5L16	HSMC	Universal Human Values 2: Understanding Harmony	0	0	3	3	3	
10	20CS5S17	SC	Data Visualization using Tableau	0	0	4	4	2	
11	20CS5I18	I	Industrial Internship	-	-	-	-	3	
<b>Total number of credits</b>								<b>23</b>	
<b>Honors/Minor courses</b>				4	0	0	-	4	

**B.TECH VIII SEMESTER**

S.No	Course Code	Course Category	Course Title	Hours per week			Total Contact Hours	Credits
				Lecture	Tutorial	Practical		
2	20CS8P01	P	Project	0	0	24	24	8
<b>Total number of credits</b>								



B.TECH VII SEMESTER

HSMC L T P C  
3 0 0 3

**20CS7T16 UNIVERSAL HUMAN VALUES 2**  
**Understanding Harmony**

**Course Objectives**

1. To help students distinguish between values and skills, and understand the need, basic guidelines, content and process of value education.
2. To help students initiate a process of dialog within themselves to know what they 'really want to be' in their life and profession
3. To help students understand the meaning of happiness and prosperity for a human being.
4. To facilitate the students to understand harmony at all the levels of human living, and live accordingly.
5. To facilitate the students in applying the understanding of harmony in existence in their profession and lead an ethical life

**Course Outcome**

On completion of this course, the students will be able to

**CO1:** Understand the significance of value inputs in a classroom, distinguish between values and skills, understand the need, basic guidelines, content and process of value education, explore the meaning of happiness and prosperity and do a correct appraisal of the current scenario in the society

**CO2:** Distinguish between the Self and the Body, understand the meaning of Harmony in the Self the Co-existence of Self and Body.

**CO3:** Understand the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human-human relationships and explore their role in ensuring a harmonious society

**CO4:** Understand the harmony in nature and existence, and work out their mutually fulfilling participation in the nature.

**CO5:** Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.

**SYLLABUS**

**UNIT- I**

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

#### **UNIT- II**

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 ensure Sanyam 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

#### **UNIT- III**

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

#### **UNIT-IV**

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.

#### **UNIT-V**

Implications of the above Holistic Understanding of Harmony on Professional Ethics

22. Natural acceptance of human values

22. Definitiveness of Ethical Human Conduct

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

24. 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.

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

26. 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
27. 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.

**Readings**

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

**Reference Books**

1. Jeevan Vidya: Ek Parichaya, 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 – Pandit Sunderlal
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)



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**Activities organized under the metric for teachers, students, administrators, and other staffs for 2018-2019:**

**Event-1:** Orientation Program for I. B. Tech students (A.Y.2018-2019)

**Date:** 20-08-2018

**Participants:** I B. Tech students



The newly admitted students of B.Tech Programme for the Academic year 2018-2019 are welcomed into the portals of our beautiful center of learning in an impressive induction program on 20-08-2018. While inaugurating the program Dr. A. Gurava Reddy, exhorted students to uphold moral values and dignity in public life. Among others, Dr. Y. Sudheer Babu, Principal, HODs & faculty and staff as well as students and parents attended the program.

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**Event-2:** Five Day Online Program for Faculty on "Pedagogy Techniques for Effective Teaching-Learning" organized by IQAC

**Event Description**

**Five Day Program on**  
"Pedagogy Techniques for Effective Teaching Learning"  
(22-08-2018)

**Organized by**

**Internal Quality Assurance Cell (IQAC), MICT, Kanchikacherla.**

Resource Persons	
Topics Covered	<b>1. Classroom Management – Code of Ethics and Relevance of OBE in Engineering Education</b> <b>2. Teaching Methodologies in the Present-Day Contest</b> <b>3. Importance of R&amp;D in Engineering Education</b> <b>4. Effective Engineering Teaching in Practice</b>
Participants	1. Introduction of a course in the first day of your class 2. Introduce Course Outcomes (COs) in the first week of a semester 3. A regular class before a mid-examination as per the timetable 4. A class after a mid-examination (After evaluation of answer scripts) 5. You are in a class and there is force to continue next immediate hour 6. While taking attendance, you came to know that more students are absent in your previous Topic, now they are present 7. While teaching a class, few students are making noise 8. Some students are irregular to your class, now they are in the class 9. HOD told you to take extra class (Last hour), but students are not interested to listen your subject 10. How to mentor your students in a counselling class 11. After I-Mid examination, you are taking a class by knowing your feedback, which is low 12. Power failure, while your class presentation (PPT) is going on 13. Semester results are announced, and more students failed in a particular course, which is a prerequisite of your current course 14. In your class only 50% students are attended / present
Demo Lectures Conducted for all Participants	



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**Activities organized under the metric for teachers, students, administrators, and other staffs for 2019-2020:**

**Event-1: Orientation Program for I. B. Tech students (A.Y: 2019-2020)**

**Date: 27-08-2019**

**Participants: I B. Tech students**



The newly admitted students of B.Tech Program of the Academic Year 2019-2020 are welcomed into the portals of our beautiful center of learning in an impressive induction program on 27-08-2019. While inaugurating the program Dr. Sasi Kanchi. exhorted students to uphold moral values and dignity in public life. Among others, Dr. Y. Sudheer Babu, Principal, HODs & faculty and staff as well as students and parents attended the program.

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**Event-2:** Two Day Program for Faculty on “Intellectual Property Rights” for start-ups in Electronics and ICT sector” organized by IQAC

**Event Description**

**Two Day Program on  
“Intellectual Property Rights”  
(07-09-2019)**  
**Organized by**

**Internal Quality Assurance Cell (IQAC), MICT, Kanchikacherla.**

<b>Resource Persons</b>	
<b>Topics Covered</b>	<b>1. The Value of Intellectual Property Rights. 2. The Role of Innovation &amp; Invention in academia industry. 3. Do's &amp; Don'ts for Researchers in sense of publishing and patenting. 4. The Importance of documenting ideas properly and patenting.</b>
<b>Participants</b>	Faculty and Students
<b>Lectures Conducted for all Participants</b>	1. Introduction of a course in the of your class 2. A regular class before a mid-examination as per the timetable



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**Activities organized under the metric for teachers, students, administrators, and other staffs for 2020-2021:**

**Event-2: Orientation Program for I. Polytechnic students (A.Y: 2020-2021)**

**Date: 27-08-2021**

**Participants: I B. Polytechnic students**



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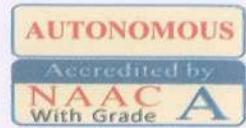
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The newly admitted students of Polytechnic Programme for the Academic Year 2020 are welcomed into the portals of our beautiful center of learning in an impressive induction program on 27-08-2021. While inaugurating the program Dr. Sasi Kanchi. exhorted students to uphold moral values and dignity in public life. Among others, Dr. K. Srinivas, Principal, HODs & faculty and staff as well as students and parents attended the program.



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**Activities organized under the metric for teachers, students, administrators, and other staffs for 2021-2022:**

**Event-1: Orientation Program for I. B. Tech students (A.Y: 2021-2022)**

**Date: 29-11-2021**

**Participants: I B. Tech students**

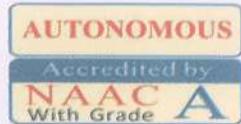


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The newly admitted students of B.Tech Program of the Academic Year 2021-2022 are welcomed into the portals of our beautiful center of learning in an impressive induction program on 29-11-2021. While inaugurating the program Dr. Sasi Kanchi, exhorted students to uphold moral values and dignity in public life. Among others, Dr. K. Srinivas ,Principal, HODs & faculty and staff as well as students and parents attended the program.

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**Event-3:** One Day Program for Women and Girl Students on "Women's Safety with Disha App for Women organized by College.

**Event Description**

**One Day Program on**  
"Women's Safety with Disha App"  
(06/09/2021)  
**Organized by**  
**MICT, Kanchikacherla.**

<b>Resource Persons</b>	Kanthi Rana Tata – SP of Krishna District
<b>Topics Covered</b>	<b>1. How to Download the App 2. Teaching the usage of the Disha App 3. Importance of the App to Girls Students and Women faculty.</b>
<b>Participants</b>	Girl Students and Women Staff
<b>Demo Videos Conducted for all Participants</b>	<p>1. As women's safety has become a long-standing issue in the country and in the cities.</p> <p>2. Under the law, the investigation into cases of sexual offences are to be completed within seven working days from the time of record.</p> <p>3. The App also provides another way of calling for help.</p> <p>4. The Personnel at Disha Control room in turn will alert the police available near the spot.</p> <p>5. The GPS console will track the nearest emergency response vehicle and automatically dispatch it to the spot.</p> <p>6. App has the feature which will provide the route for women travelling in private vehicles.</p> <p>7. People can call the police with an SOS Button.</p>

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ఇంచ యాప్ గురించి ఖున్ కశాశాల యూజమ్మాన్సాసికి, తిర్మార్పులకు  
తెలియిజేస్తున్న క్షేష్ట జల్లు యుస్సు



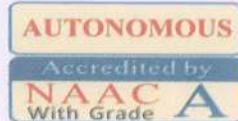
  
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**Event-4:** Five Day Online Program for Faculty on "Pedagogy Techniques for Effective Teaching-Learning" organized by IQAC

**Event Description**

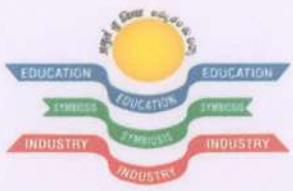
**Five Day Program on**  
"Pedagogy Techniques for Effective Teaching Learning"  
(02-12-2021)

**Organized by**

**Internal Quality Assurance Cell (IQAC), MICT, Kanchikacherla.**

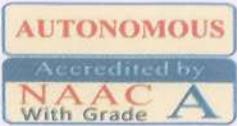
Resource Persons	
Topics Covered	<b>1. Classroom Management – Code of Ethics and Relevance of OBE in Engineering Education 2. Teaching Methodologies in the Present-Day Contest 3. Importance of R&amp;D in Engineering Education 4. Effective Engineering Teaching in Practice</b>
Participants	<ul style="list-style-type: none"><li>1. Introduction of a course in the first day of your class</li><li>2. Introduce Course Outcomes (COs) in the first week of a semester</li><li>3. A regular class before a mid-examination as per the timetable</li><li>4. A class after a mid-examination (After evaluation of answer scripts)</li><li>5. You are in a class and there is force to continue next immediate hour</li><li>6. While taking attendance, you came to know that more students are absent in your previous Topic, now they are present</li><li>7. While teaching a class, few students are making noise</li><li>8. Some students are irregular to your class, now they are in the class</li><li>9. HOD told you to take extra class (Last hour), but students are not interested to listen your subject</li><li>10. How to mentor your students in a counselling class</li><li>11. After I-Mid examination, you are taking a class by knowing your feedback, which is low</li><li>12. Power failure, while your class presentation (PPT) is going on</li><li>13. Semester results are announced, and more students failed in a particular course, which is a prerequisite of your current course</li><li>14. In your class only 50% students are attended / present</li></ul>
Demo Lectures Conducted for all Participants	

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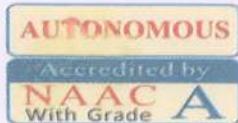


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**Activities organized under the metric for teachers, students, administrators, and other staffs for 2022-2023:**

**Event-1: Orientation Program for I. B. Tech students (A.Y: 2022-2023)**

**Date: 24-09-2022**

**Participants: I B. Tech students**

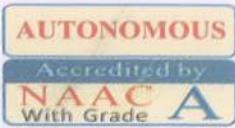


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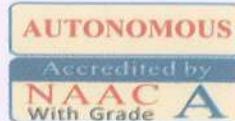
The newly admitted students of B.Tech Programme for the Academic Year 2022-2023 are welcomed into the portals of our beautiful center of learning in an impressive induction program on 01/12/2022. While inaugurating the program The Principal Dr. K. Srinivas, exhorted students to

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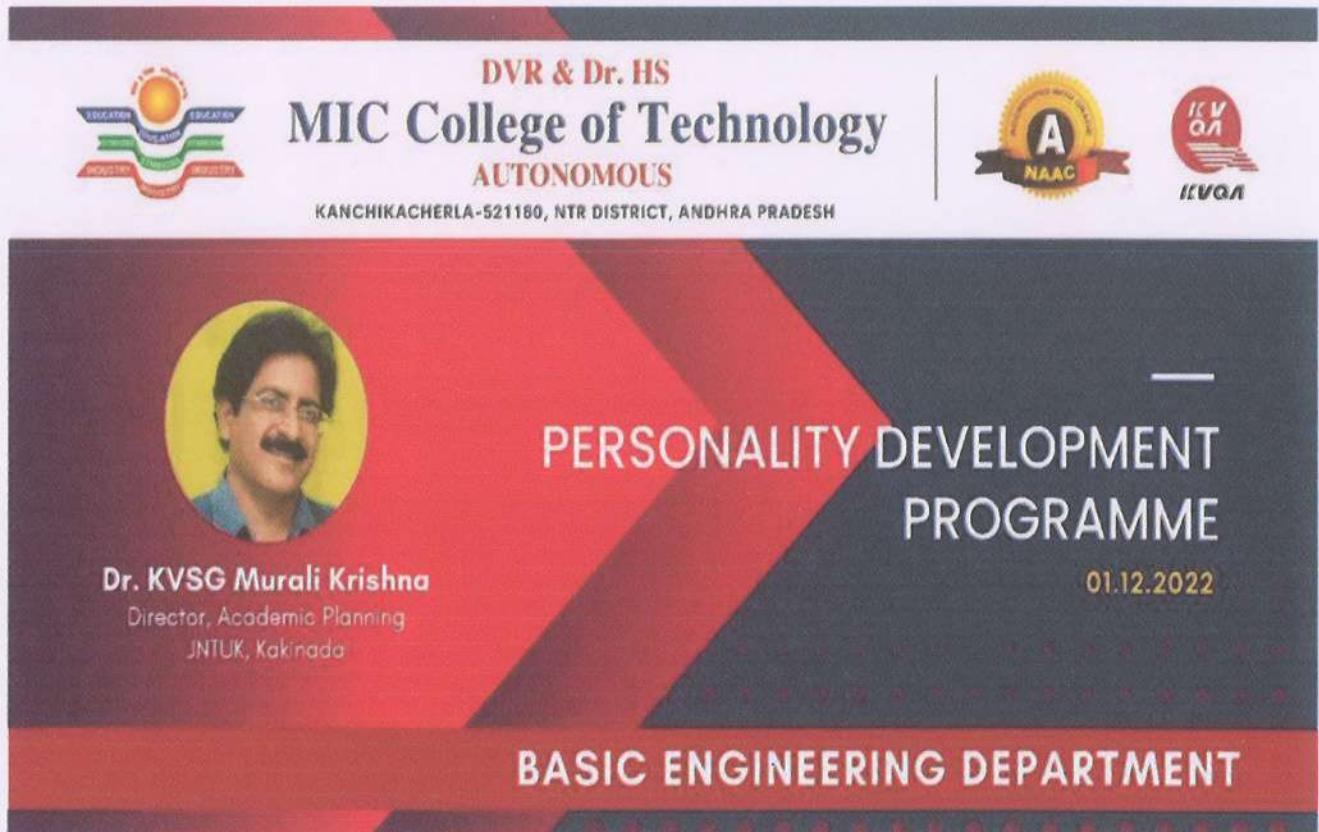
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**Event-2: Personality Development Program for I. B. Tech students (A.Y: 2022-2023)**

**Date: 01/12/2022**

**Participants: I B. Tech students**



The newly admitted students of B.Tech Program of the A.C.Y.2022 were welcomed into the portals of our beautiful center of learning in an impressive Personality Development Program on 01/12/2022. While inaugurating the program Dr. K.V.S.G. Murali Krishna. exhorted students to uphold moral values and dignity in public life. Among others, Dr. K. Srinivas, Principal, HODs & faculty and staff as well as students and parents attended the program.

**PRINCIPAL**  
DVR & Dr. HS MIC College of Technology  
Kanchikacherla, N.T.R. Dt.  
Andhra Pradesh, India – Pin: 521180



DVR & Dr. HS  
**MIC College of Technology**

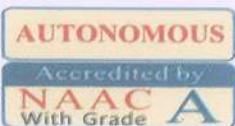
ISO 9001:2015 Certified Institute

(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)

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