Integrity and Professionalism in Engineering Practices

(Promoting Ethical and Professional Standards)

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Introduction

- To high moral standards, prioritize public safety, and contribute positively to society.
- Values in making responsible decisions, maintaining trust, and upholding the dignity of the profession.
- The challenges faced in upholding these values, and the strategies for maintaining them in practice.
- Integrity involves honesty and accountability, while professionalism encompasses competence and respectful behaviour and lead to high-quality, reliable engineering solutions.

integrity

Personal Values

Values Definition

- Values are personal beliefs and preferences that influence one's behavior
- Deep-seated in personality
- Exist at different levels of awareness
- Awareness of values enhances integrity

Character is imposed by

1. Integrity
2. Honesty
3. Moral Strength

1. Know
2. Say
3. Do

Integrity is congruence between what you

Definition of Integrity

Latin, "Integer" – whole

A strongly held sense of commitment to openness, honesty, inclusiveness and high standards in undertaking the leadership role

Integrity..,

- Sticking to your personal code of conduct
- Being open & honest
- Having nothing to hide
- Stick to what you decide

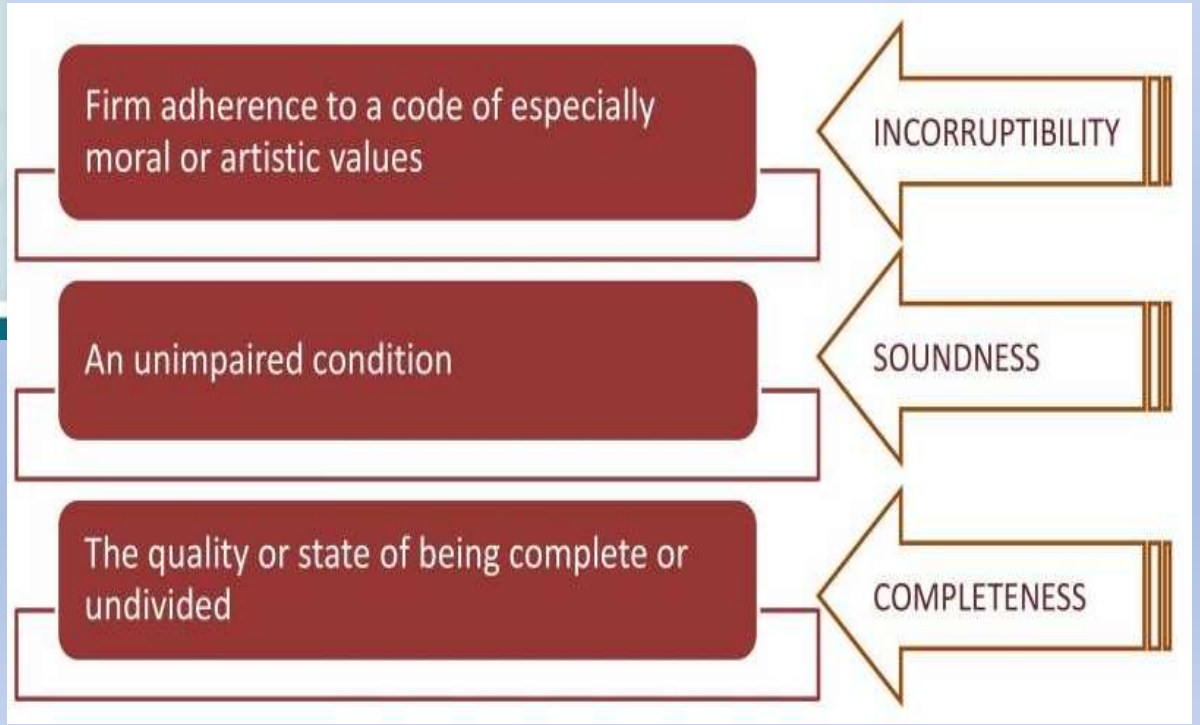
What is INTEGRITY ?

Having integrity means doing right thing in a reliable way

→ Its actually a 'Quality' of being honesty and having strong moral values

Basic idea of the integrity is- "Doing right thing when nobody's watching you"

And having integrity is not lying in other words-doing what you said you would do.



Excellence
Humility
Wisdom
Obedience
Bold
Abide
Honesty
Courage
Character
Serve
Love
Influence
Commitment
Integrity
Gratitude
Poise
Resolve
Faith
Relationship
Disciplined
Strength
Responsible
Stable
Consistent

WHY IS INTEGRITY IMPORTANT ?

- Primarily, integrity in the workplace is so important as these traits foster a positive workplace culture. One where there is open communication, good decision making and a strong moral compass guiding all decisions and actions. Whereas, irresponsible behaviour and distrust can make a work environment uncomfortable and tense.

- If you are known for your integrity, you will gain trust and respect from the people around you.

- Integrity is not just important on a personal level, it is also vitally important at a workplace level. Organisations known for their integrity perform better.

- What customer wants to deal with an organisation that doesn't keep their word, that says one thing but does something else or that offers bad products or services? They wouldn't. Instead they would want to deal with the organisation who can be trusted to follow through with what they have agreed upon, that have trustworthy employees and a good brand message.

INTEGRITY

Day to day life examples of integrity……..

- Never betray a friend's trust even if you get in trouble.
- Do not gossip or talking badly about someone .
- Ignore someone's advice on how to cheat on your taxes and not get caught.
- Do not let someone else take the blame for something you did.
- If someone gives you confidential information ,never tell anyone what you know.
- When it is obvious to you a relationship is over ,don't drag it out but discuss it openly.

INTEGRITY AT WORK PLACE.....

- Don't let teammates take the fall. Work together as a team. This builds trust and shows integrity.
- Never steal supplies from the work place.
- If you find yourself in a conflict of interest ,get out of it as soon as possible.
- Don't accept praise of acclaim for some one else's work. That includes stealing someone's idea or pretending to have worked on a successful project
- When making a business deal ,make sure everything is on the table and nothing was left out .
- If your company asks you to do something against your personal code of conduct ,refuse. If it means losing a good paying job ,so be it .find a more ethical company to work for.

WORK VALUES

1. Strong work ethic
2. Dependability and responsibility
3. Possessing a positive attitude
4. Adaptability
5. Honesty and integrity
6. Self motivated
7. Motivated to grow & learn
8. Strong self –confidence
9. Professionalism
10. loyalty

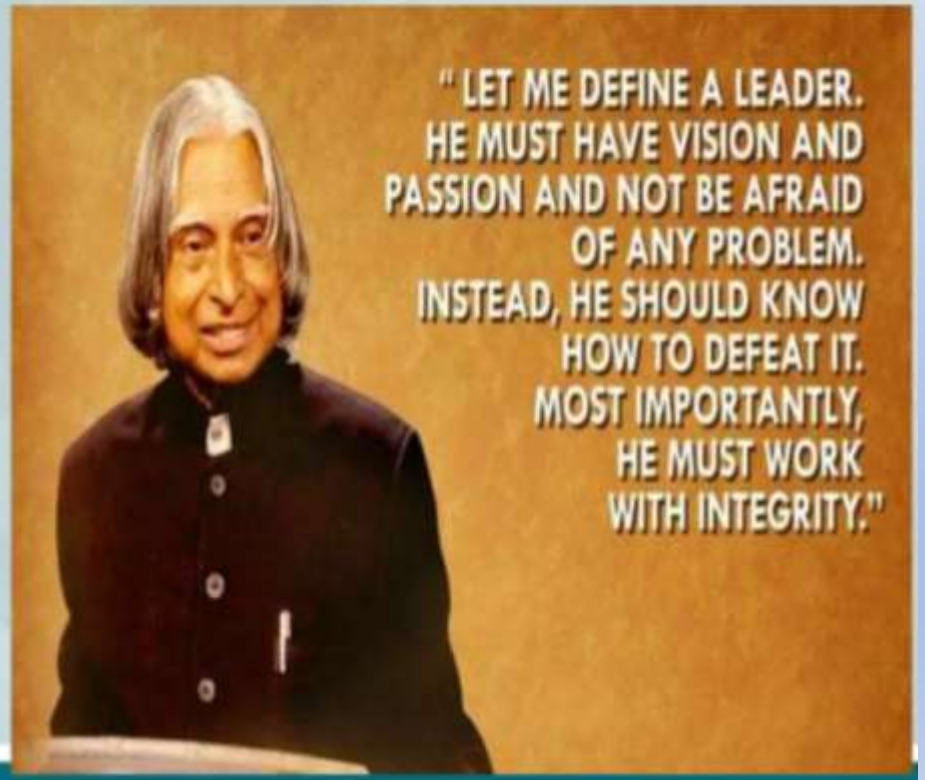
CORE VALUE

COMMITMENT
We are never less than 100% committed to deliver what we promise in order to foster trusted client relationships.
EXCELLENCE
We continually improve our standards and processes so that excellence simply becomes a natural consequence of our work.
OWNERSHIP
We always assume complete responsibility and accountability for every aspect of our work.
TEAM WORK
We succeed because we help our people to succeed in a collaborative, supportive, creative, and enjoyable environment.
INNOVATION
We believe that every project provides a new opportunity to solve problems in creative, new ways.
INTEGRITY
We believe that to be successful, it is essential to operate at the highest levels of honesty, responsibility, and trust.
DEVELOPMENT
Our people are our greatest asset and we provide an environment that promotes education, coaching, mentoring, and feedback.

Leadership cannot replace management ;it should be in additional to management.

Vision + Followership + Influence =

Leadership



PROFESSIONAL MATURITY HELPS IN THE WORKPLACE:

Professional maturity is the ability to respect other people's diversified cultural backgrounds and unique set of experience In the workplace .judgment should be based on mutual consensus supported with facts ,rather than emotional and instincts .it is also ability to control anger and settle differences without violence are destruction .a mature can face unpleasantness ,frustration, discomfort and defeats without collapsing or complaining ,as it is a fact that one cannot have everything his own way all the time.

A transparent workplace emphasizes communication and honesty.

"Honesty is the best policy"

"Your reputation is more important than your paycheck, and your integrity is worth more than your career"

Achieving results
Managing self and personal skills
Working with people
Delivering excellent service
Professional Behaviours
Developing self and others
Finding innovative solutions
Providing direction
Embracing change
Using resources

PROFESSIONALISM
ALTRUISM
DOCTORS
SOCIETY
PATIENT
SCIENTIFIC KNOWLEDGE
ETHICS
ACCOUNTABILITY
INTEGRITY
CONTRACT WITH SOCIETY
ACCESS
HONESTY
ROLE
COMMUNICATION SKILLS
MODELS
CLINICAL COMPETENCE
DOCTORS
HEALTHCARE
CONTINUED LEARNING
EMPATHY
CONFIDENTIALITY
RESOURCES
RESPONSIBILITY
MEDICAL EDUCATION
DUTY

PROFESSIONALISM
RESPECT
INTEGRITY
DIVERSITY
EXCELLENCE

Professionalism

- How would you define ***Professionalism?***
  - What attributes typify a professional?
  - How can you become more professional?
- Professionalism wears different hats in many careers.

PROFESIONALISM

"Professionalism is a **way of life**. "

Professional person:

- Engages in an activity that required specializes and **comprehensive education**
- Motivated by a **strong desire to serve humanity**
- **Thinks and acts** in a manner that brings favor upon the individual and the entire profession

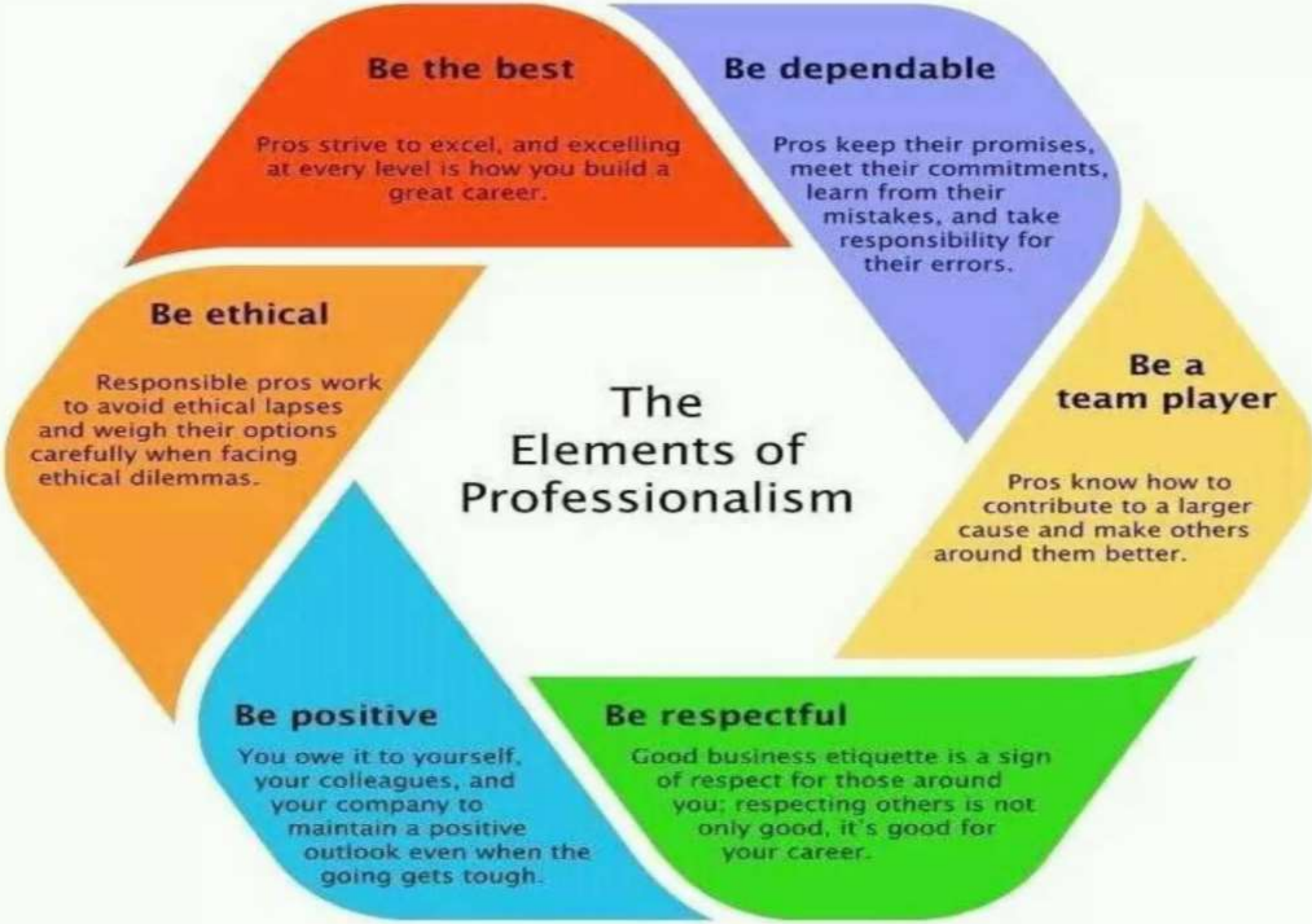
Professionalism

- Main criteria for professional include the following:
  - Academic qualifications
  - Expert and specialized knowledge in field which one is practicing professionally
  - Excellent manual/practical and literary skills in relation to profession.
  - High quality work in (examples): creations, products, services, presentations, consultancy, primary/other research, administrative,
  - A high standard of professional ethics, behaviour and work activities while carrying out one's profession
  - Reasonable work moral and motivation.

Attributes of Professionalism

- Specialized Knowledge
- Competency
- Honesty and Integrity
- Accountability
- Self-Regulation
- Image

Mitigates Conflicts
The Sense of Responsibility
Increased Job Satisfaction
Creates an Atmosphere of Improvement
Personal Growth
Creates Boundaries
Why is Professionalism Important at the Work


Be the best
Pros strive to excel, and excelling at every level is how you build a great career.
Be dependable
Pros keep their promises, meet their commitments, learn from their mistakes, and take responsibility for their errors.
Be ethical
Responsible pros work to avoid ethical lapses and weigh their options carefully when facing ethical dilemmas.
The Elements of Professionalism
Be a team player
Pros know how to contribute to a larger cause and make others around them better.
Be positive
You owe it to yourself, your colleagues, and your company to maintain a positive outlook even when the going gets tough.
Be respectful
Good business etiquette is a sign of respect for those around you; respecting others is not only good, it's good for your career.

FIVE DIMENSIONS OF PROFESSIONALISM

Presenter: Summan Arif (7096)

Professionalism in Teamwork

- Take responsibility rather than making excuses or blaming each other.
- Openly share information
- Collaborate on important issues
- Focus on a common purpose- don't get sidetracked by details
- Value each other's background
- Openly and respectfully voice concerns & criticisms
- Be positive about the team members and their work

Challenges in Maintaining Integrity and Professionalism

- Pressure to Cut Corners: Balancing cost, time, and quality.

- Conflicts of Interest: Managing personal vs. professional duties.

- Ethical Dilemmas: Navigating complex situations.

Challenges and Solutions

Strategies for Upholding Integrity and Professionalism

- Ethics Training: Regular training on ethical decision-making.
- Mentorship: Experienced engineers guiding newer professionals.

- Codes of Conduct: Strong ethical guidelines in the workplace.

Role of Professional Organizations

- Establishing Standards: IEEE, ASCE set and enforce standards.
- Licensing: Ensures engineers meet required standards.
- Continuous Education: Resources for lifelong learning.

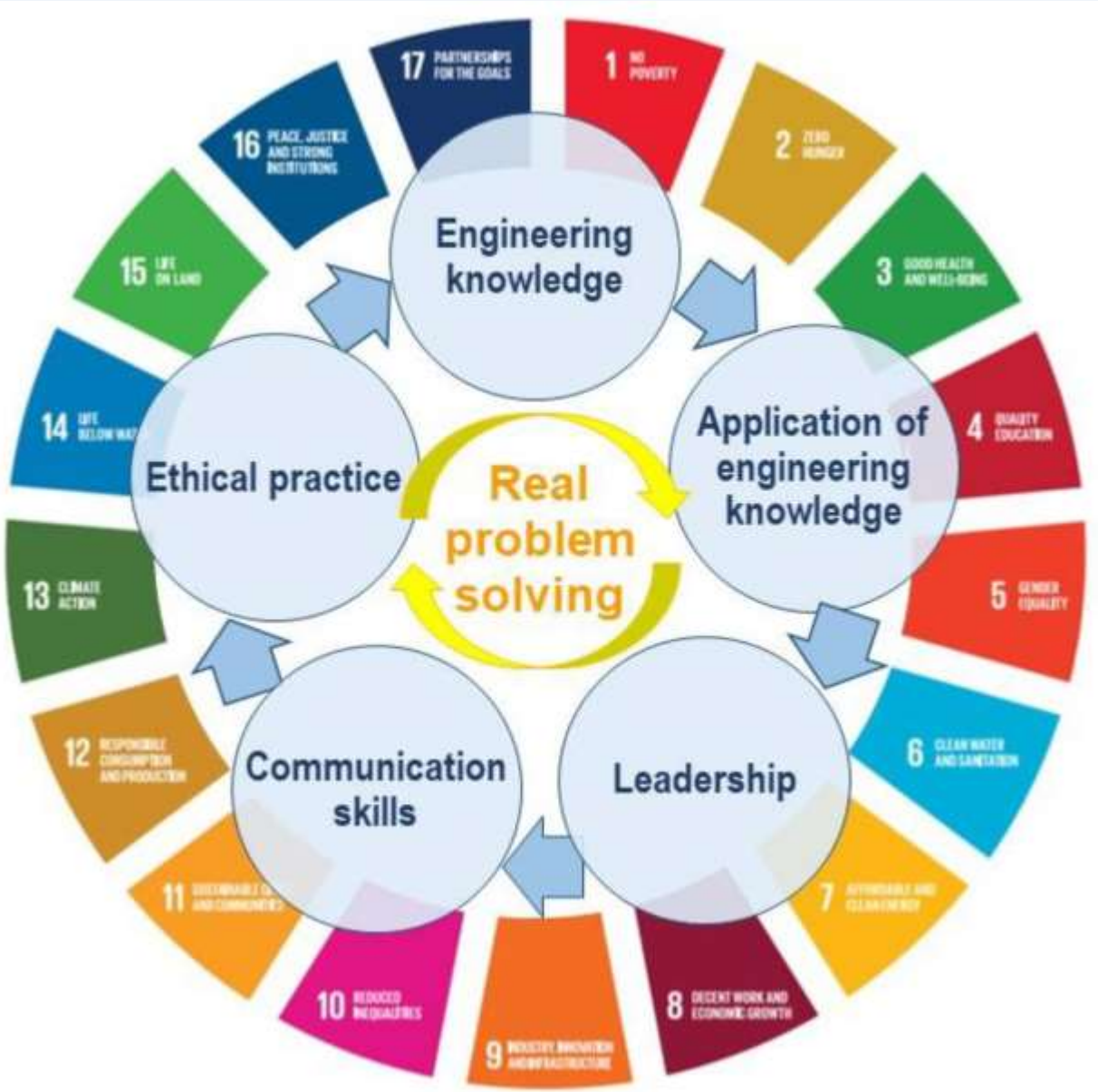
ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

NSPE
National Society of Professional Engineers
PDH-PRO

IEEE

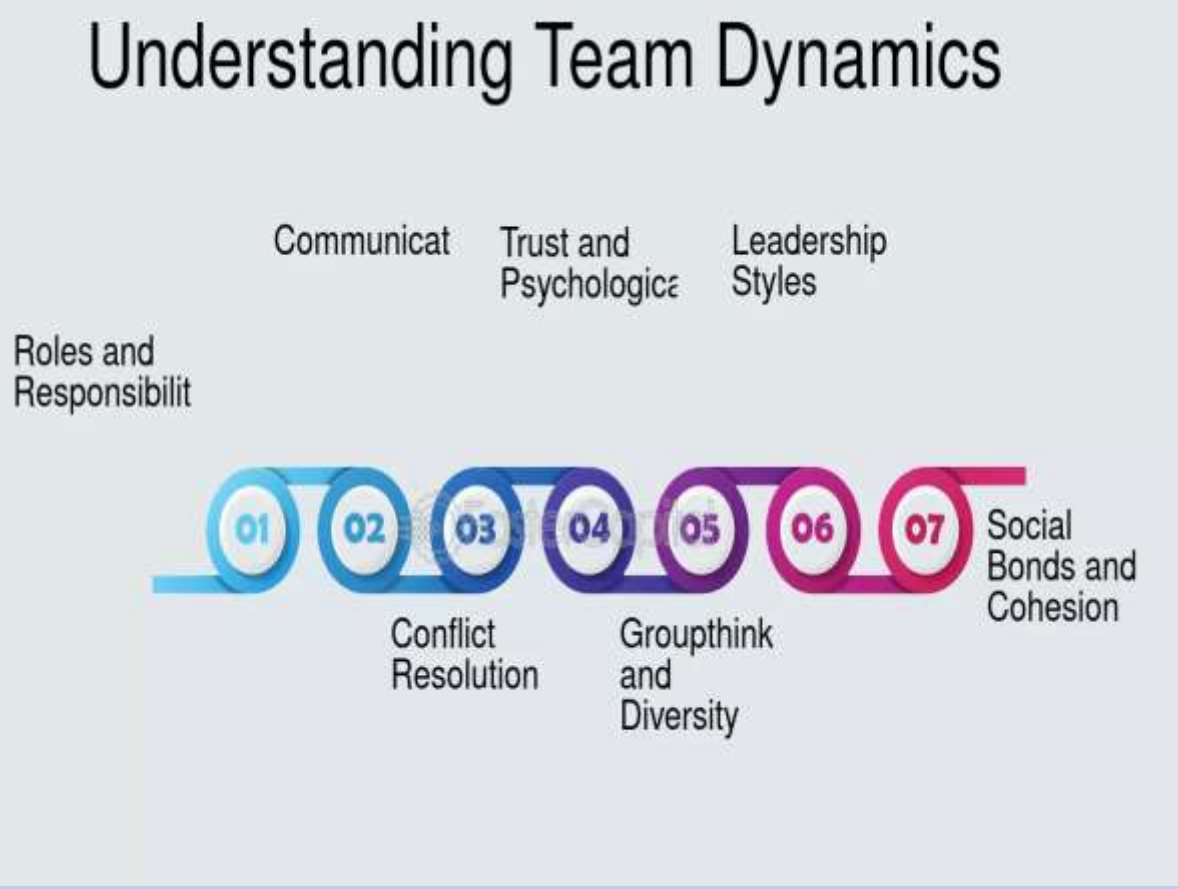
Impact of Integrity on Project Outcomes

- ❖Successful Projects: Integrity leads to positive outcomes.
- ❖Timelines & Budgets: Integrity ensures adherence to plans.



Impact of Professionalism on Team Dynamics

- Work Environment: Fosters a collaborative workplace.
- Teamwork: Professionalism improves communication and performance.



Ethical Decision-Making Frameworks

- Utilitarianism: Maximizing overall good.
- Duty Ethics: Following established rules.
- Virtue Ethics: Emphasizing moral character.

Role of Leadership

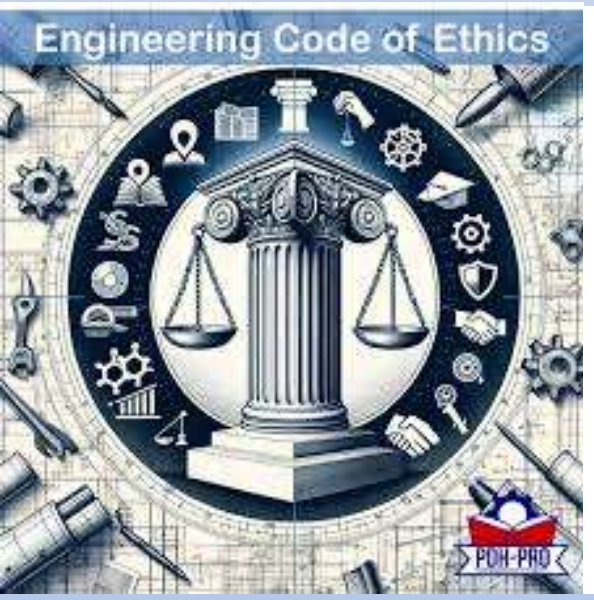
- Setting Standards: Leaders establish ethical norms.
- Leading by Example: Demonstrating integrity.
- Promoting a Culture of Ethics: Encouraging ethical behavior

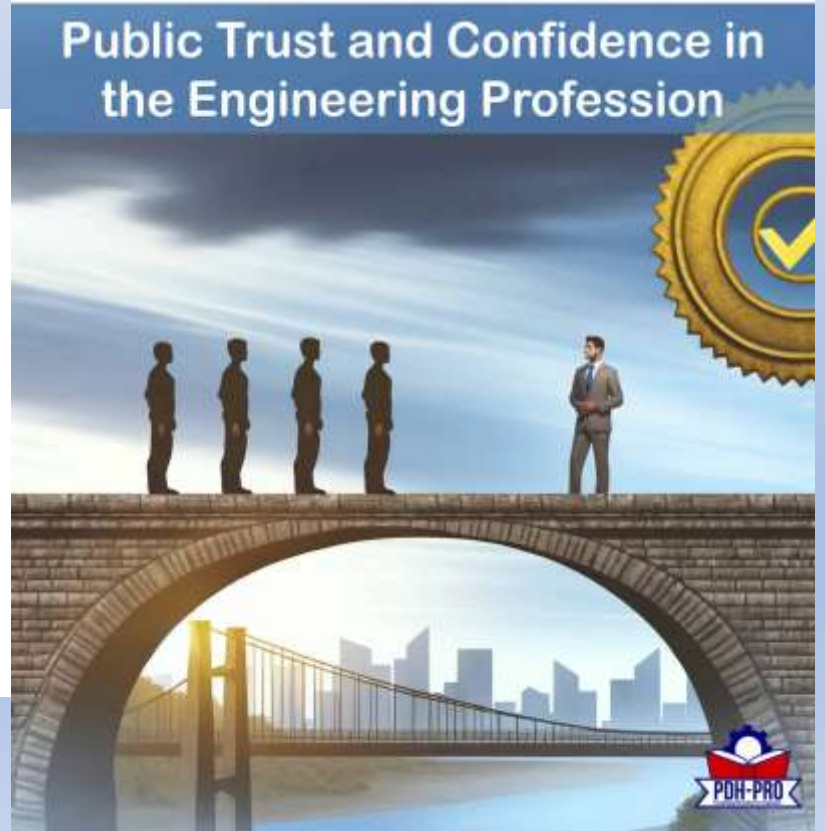
Future Trends in Engineering Ethics

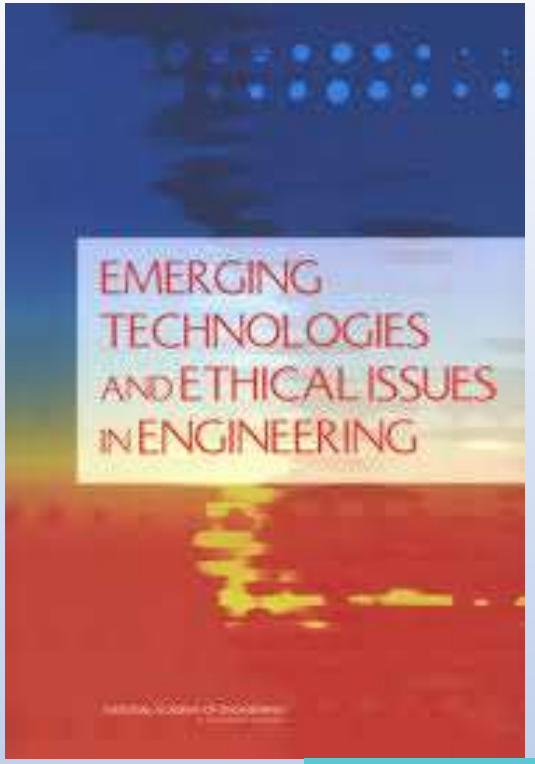
- AI, Sustainability: New challenges in engineering ethics.
- Emerging Dilemmas: Evolving ethical considerations.

Conclusion

- ensure that engineers prioritize safety, quality, and ethical standards in their work.
- Upholding these values fosters public trust, supports responsible decision-making, and enhances the reputation of the engineering profession.
- contribute to sustainable, reliable, and ethical solutions that benefit society as a whole.



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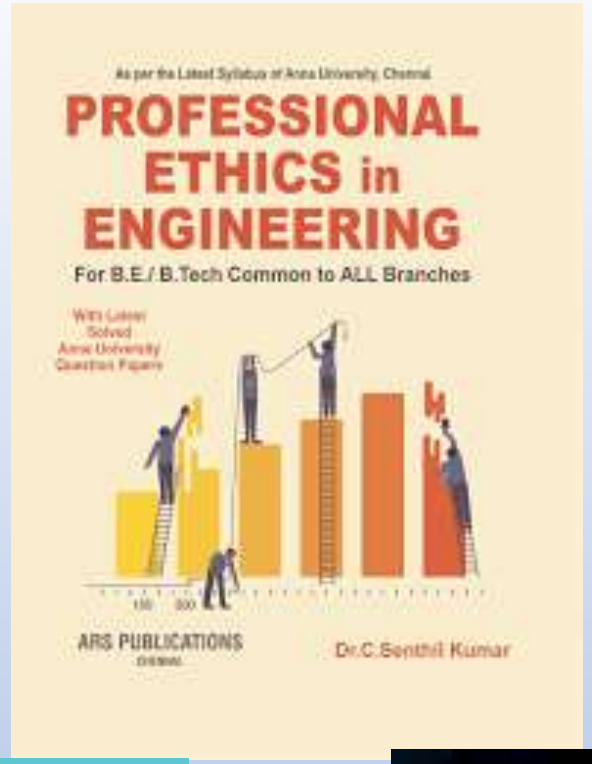
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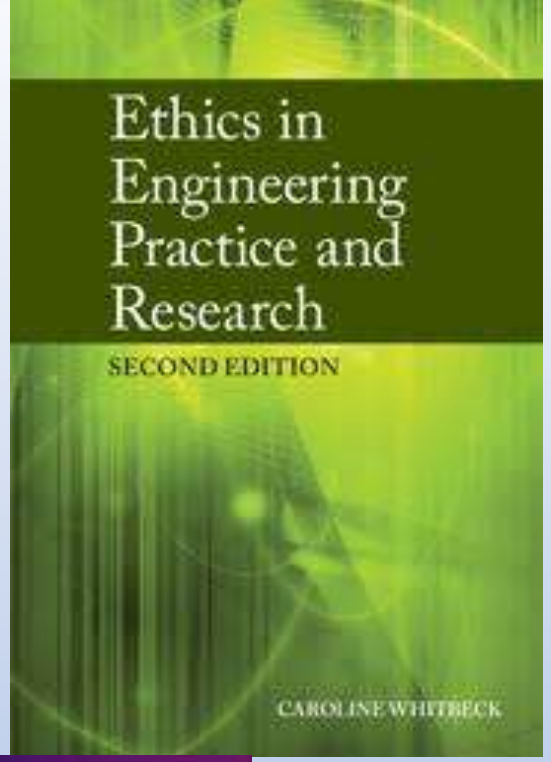
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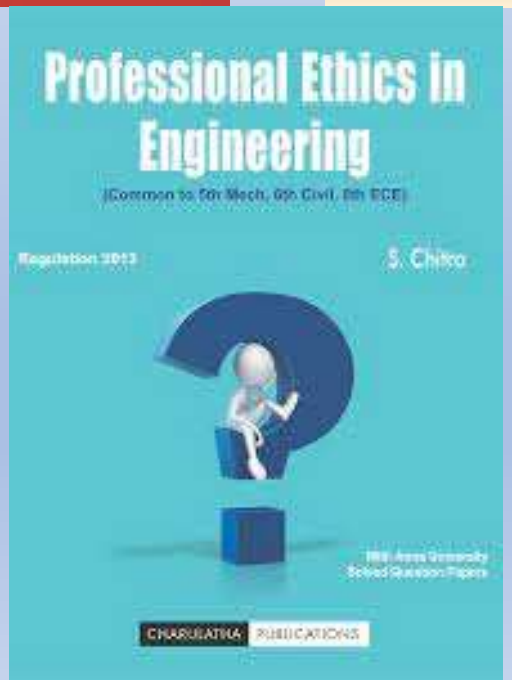
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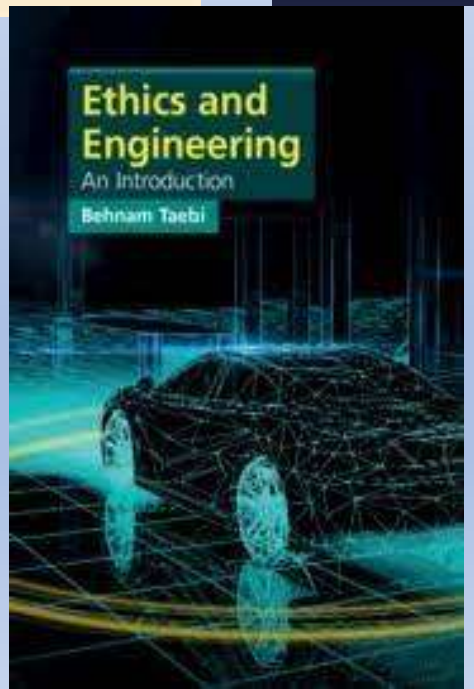
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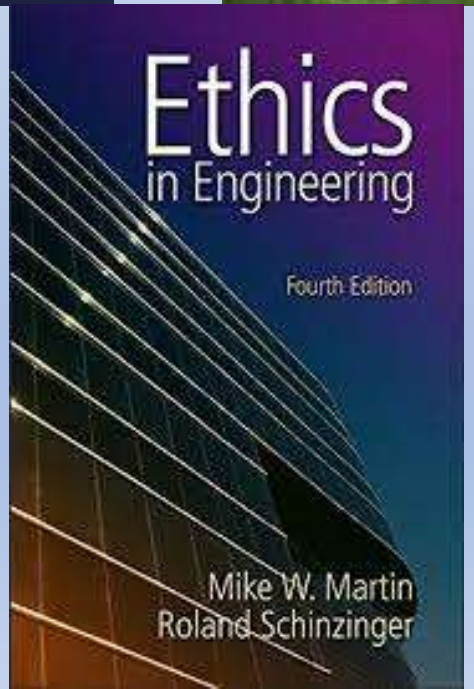
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