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1. Short Notes



Values are core beliefs or standards that guide our behavior and decisions. Example: Honesty, loyalty, and respect.

Ethics are rules or principles that define what is right or wrong in a profession or society. Example: Doctors follow medical ethics like patient confidentiality.

c. Morals:

Morals are personal beliefs about right and wrong,











Morals are personal beliefs about right and wrong, often shaped by culture or religion. Example: Telling the truth is a moral act.

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d. Empathy:

Empathy means understanding and sharing the feelings of others. Example: Feeling sad when your friend is upset.

e. Sympathy:

Sympathy is feeling pity or sorrow for someone's situation. Example: Sending condolences to a



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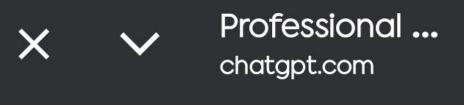
Sympathy is feeling pity or sorrow for someone's situation. Example: Sending condolences to a grieving person.

f/Civic Virtues:

These are good habits for being a responsible citizen. Example: Voting, obeying laws, and helping the community.

g. Moral Dilemma:

A situation where one must choose between two morally right actions, but only one can be chosen. Example: Choosing between helping a friend or saving a stranger.







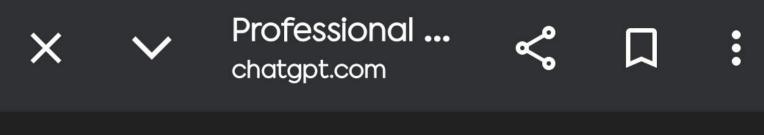




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- 2. Types of IPR (Intellectual Property Rights)
 - Copyrights: Protect creative works like books, music, and films.
 - ✓ Patents: Protect inventions or new processes.
 - Trademarks: Protect brand names, logos, and slogans.
 - Trade Secrets: Protect confidential business information.
 - Licenses: Legal permissions to use intellectual



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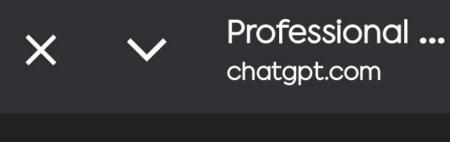
Licenses: Legal permissions to use intellectual property.

3. Whistle Blowing and Its Types

Whistle blowing is exposing unethical or illegal activities in an organization.

Types:

- Internal: Reported within the company.
- External: Reported to outsiders like media or











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activities in an organization.

Types:

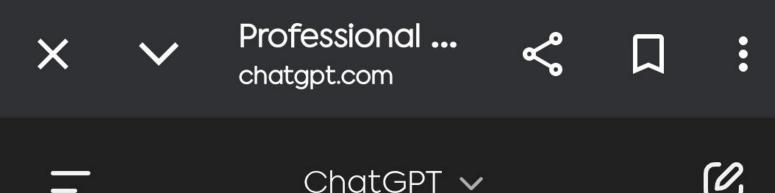
Internal: Reported within the company.

External: Reported to outsiders like media or authorities.

Anonymous: Identity of the whistleblower is hidden.

Open: Whistleblower reveals their identity.

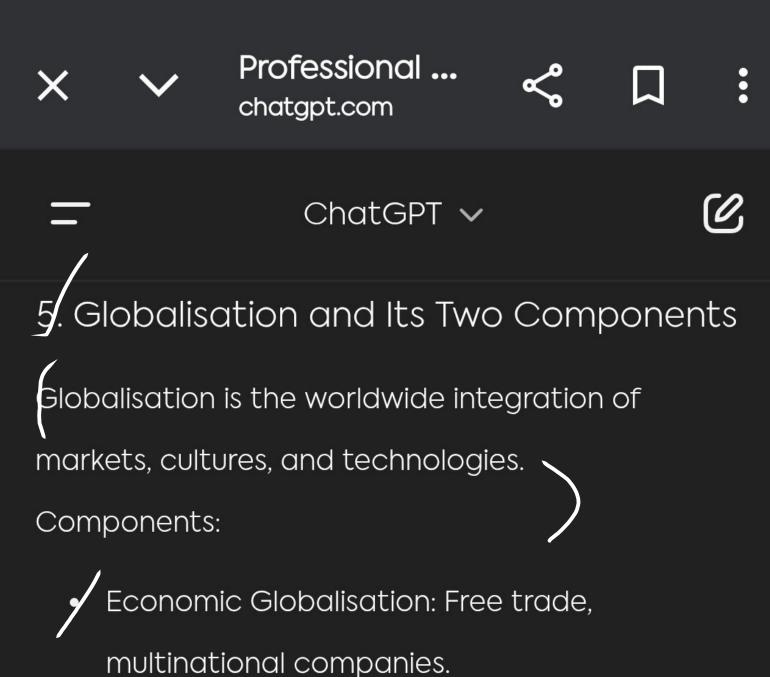




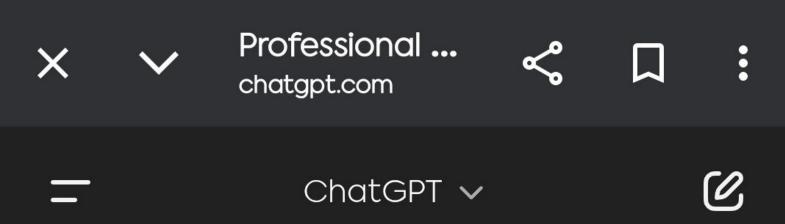
- 4. Importance of Code of Ethics
 - Guides professionals in making ethical decisions.
 - Builds trust with society and clients.
 - Prevents misconduct and promotes fairness.
 - Ensures accountability and responsibility.

5. Globalisation and Its Two Components

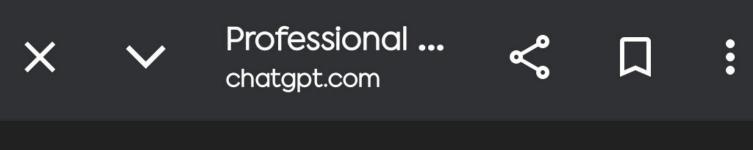
Globalisation is the worldwide integration of



Cultural Globalisation: Sharing of ideas, values, and culture worldwide.



- 6/Essential Skills of Engineers
 - Technical knowledge
 - Problem-solving
 - Communication
 - •/ Teamwork
 - Ethics and responsibility
 - Creativity and innovation



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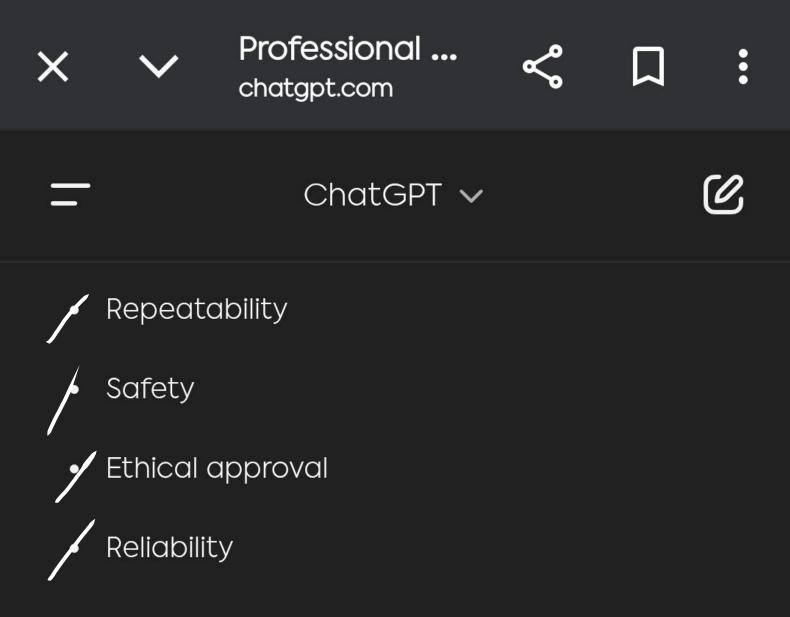
. Engineering vs Standard Experiments

Engineering Experiments: Done in real-world conditions, may have uncertainties.

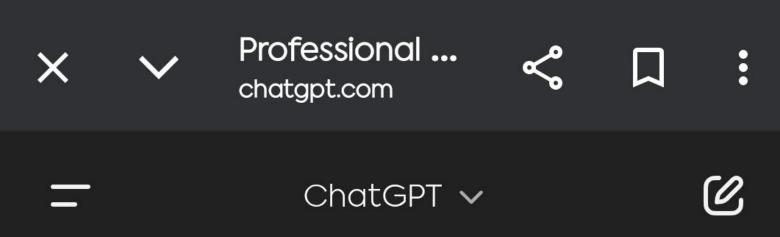
Standard Experiments: Done in labs under controlled conditions.

Factors affecting acceptability:

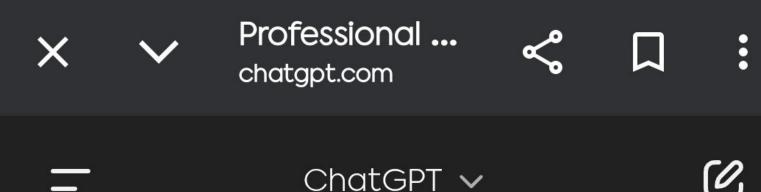
- Accuracy
 - Repeatability
 - Safety



- 8. Five Ethical Theories in Engineering
 - Utilitarianism: Best action gives the most good for most people.



- 8. Five Ethical Theories in Engineering
 - 1/ Utilitarianism: Best action gives the most good for most people.
 - 2. Duty Ethics (Deontology): Follow duties and rules.
 - Rights Theory: Respect individual rights.
 - 4/ Virtue Ethics: Focus on character and integrity.
 - 5/ Justice Theory: Fair treatment and equality.



- 9. Two Analytical Methods for Safety
 Testing
 - 1/ Failure Mode and Effect Analysis (FMEA): Identifies possible failures and their effects.
 - 2. Fault Tree Analysis (FTA): Uses diagrams to find the root cause of system failures.

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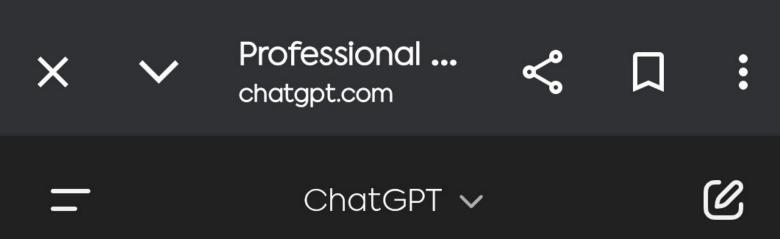
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10. Piaget's Four Stages of Moral

Development

- 1. Sensorimotor (0-2 years): Learning through senses.
- Pre-operational (2-7 years): Egocentric thinking, beginning of moral understanding.
- Concrete operational (7–11 years): Understand rules, fairness.
- 4 Formal operational (12+ years): Abstract thinking, reasoned moral judgments.



- 11. Why Include Professional Values and Ethics in Engineering
 - Teaches engineers to act responsibly.
 - / Helps handle ethical dilemmas in real work.
 - /• Promotes safety, honesty, and public trust.
 - Supports sustainable and fair development.