



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution



Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE NAME : PROFESSIONAL ETHICS
IV YEAR / VII SEMESTER

Unit III



Responsible engineers in social experimentation

- *The engineers have so many responsibilities for serving society*
- **Conscientiousness:** A primary obligation to protect the safety of human subjects and respect their right of consent.
- **Relevant information:** A constant awareness of the experimental nature of any project, imaginative forecasting of its possible side effects and a reasonable effort to monitor them.
- **Moral autonomy:** Autonomous, personal involvement in all steps of the project.
- **Accountability:** Accepting accountability for the results of the project.



CONSCIENTIOUSNESS (sense of awareness)

- Conscientious means showing that one cares about the doing things well and thoroughly
- It means commitment to live according to certain values
- Engineers have to be sensitive to range of moral values and responsibilities
- Willingness to develop the skill and expend the effort needed to reach the best balance possible among various considerations.
- Conscientiousness means consciousness because mere intent is not sufficient.
- Respect foremost the safety and health of the affected, while they seek to enrich their knowledge, rush for the profit, follow the rules, or care for only the beneficiary



RELEVANT INFORMATION:

- Conscientiousness is impossible without relevant factual information.
- Engineers have to show the commitment to obtain and properly gauge all the information related to meeting one's moral obligations.
- Moral concern involves a commitment to obtain and assess all available pertinent information.



Comprehensive Perspective

- The engineer should grasp the **context of his work** and ensure that the work involved results in only moral ends.
- Not to Accept Design :-A product has a built-in obsolete or redundant component to boost sales with a false claim
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Moral Autonomy

- Viewing engineering as social experimentation, and anticipating unknown consequences should promote an attitude of questioning about the adequacy of the existing economic and safety standards.



Accountability

- Means - The capacity to understand and act on moral reasons
- Means being responsible, liable, answerable or obligated.
- Morally responsible peoples are expected to accept morally responsibility for their actions
- According to standley milgram, **people are not willing to accept personal accountability when placed under authority**