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DEPARTMENT OF ECE 19GET201 – PROFESSIONAL ETHICS AND HUMAN VALUES IV YEAR VII SEM UNIT 2-ENGINEERING AS SOCIAL EXPERIMENTATION OPIC – Engineering as Social Experimentation & Codes of Ethics





WHAT IS ENGINEERING EXPERIMENTATION & CODES OF ETHICS?

Let's start with the first question



Review of Unit-1

X Senses of Engineering ethics

X Variety of moral issues & Types of inquiry

X Moral dilemmas & Moral autonomy

XKobherg'stheory & Giligan's theory

X Consensus & Controversy and Professions & Professionalism

X professional ideals and virtues

X theories about right action

X self-interest – customs and religion – use of ethical theories.

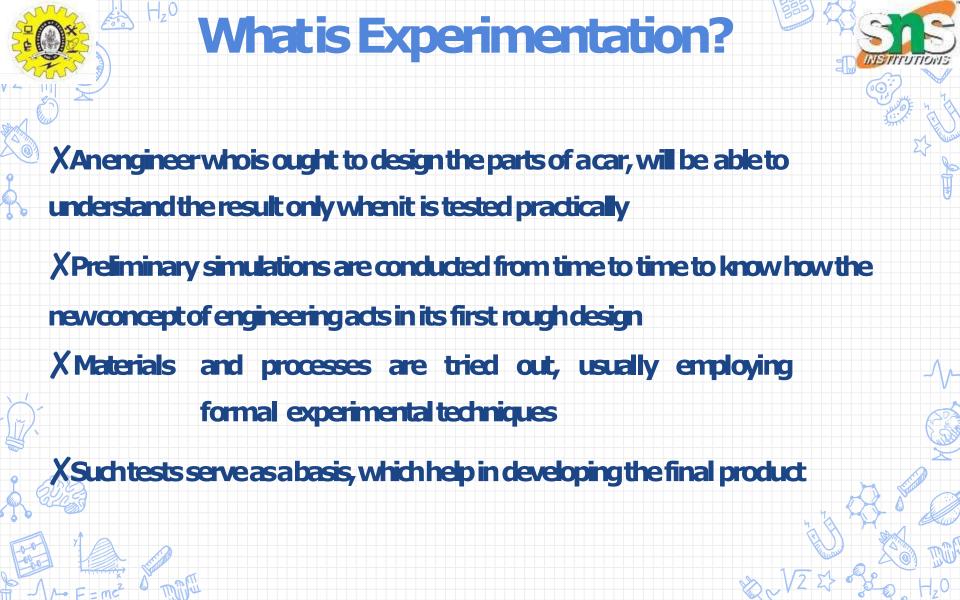






XThe process of engineering lets you go through a series of different experiments whenit comesto practicaluse XThough it is not like an experiment in laboratory under controlled conditions, which is done while learning, an engineer should be ready to do the sameon a social

scale involving human subjects





XIn the process of developing a product, an engineer generally learns through experimentation

XTo simply put, a trial and error method is the mostly used one to obtain results, but that goes with some calculations

X Hence, we can say that, primarily any experiment is carried out with partial ignorance

X Even the outcomes of the experiments may not be as expected

XAn engineer should always be ready for the unexpected output

X The improvement of current prototype will lead to some change which may or may not be fruitful



X Exhibiting their technical competence and other characteristics

of professionalism



Conscientiousness



X Conscientiousness implies consciousness which means the sense of awareness and every engineer is expected to have some moral standards irrespective of the role he is performing

XThe ethics that an engineer should follow

depends upon the moral standards of the individual



CONSCIOUSNESS

That annoying time between this nap and the next one.

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Conscientiousness



XThe present working environment of

engineers, narrow down their moral vision fully with the obligations

accompanied with the status of the

ADW TO STUMP A GREGRATE LAWYER

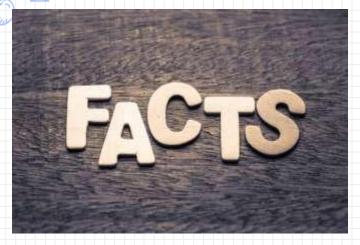
XBut this might break the moral laws. Along with satisfying the employer's goals, by behaving as a responsible employee, by not doing any fraud, not

breaking confidentiality and violating patent rights etc.,



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Informed Consent

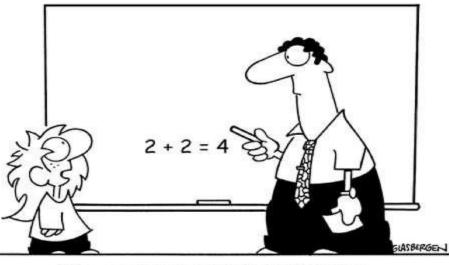


XAs a responsible engineer, one should be informed of the facts so as to be

conscious

XThe engineered products of the company should be in such a way that they can never be used to perform any illegal or unsocial activities, which causes destruction

Informed Consent



"How can I trust your information when you're using such outdated technology?"

XIt is to be observed that it a company produces some products that are out of

fashion or the items which promote wastage of energy and do not fetch in benefits,

such things are to be well explained to the employer and alternative solutions

should also be suggested by the engineers



Moral Autonomy



X Moral beliefs and attitudes must be integrated into an individual's personality which leads to a committed action

XAny person can be morally

autonomous only when one is being

genuine in one's commitment

towardsmoralvalues

ATTITUDE IS A LITTLE THING THAT MAKES A BIG DIFFERENCE -WINSTON CHURCHILL

KAWAIIZY



Moral Autonomy



X This leads to moral autonomy wherein, he also gains the trust of the employer, through his commitment. Such

responsible actions lead to great outcomes

XThe responsibility to answer an unexpected result, influences an engineer to involve himself personally into the work









