

PROFESSIONAL ETHICS (in sense of PE)

26/11/2024

→ Globalization: When different countries means integration of countries through exchange of commerce, transfer of technology and information and culture.

→ Any organization which has its business in more than one country is called multinational organization.

→ Home, Host Country

Country Moves

- ↳ To expand business
- ↳ To have conversion rate
- ↳ Tax free
- ↳ Natural Resources

→ Ramon Davis

→ 10 basic rights

→ Right of fair trial on product.

→ Technology Transfer :-

JF17 Thunder

F16 Fighter Jet

5.1 Multinational Corporation Morality.

→ Ethical Balance.

→ Plato
→ Engineer As Manager

Eye-Witness

→ "Engineer As Expert Witness"

Time
Location

Baldia Town Case
Hired gun, Money bias, ego bias, Sympathy bias

Date 27/11/2024

Duties of Expert Witness:-

1) Confidentiality

2)

3) Honesty

4) Social System / Legal System Respect

Engineers as Future Planner.

- 1) Cost benefit/ Analysis
- 2) Risk
- 3) Safety

→ Various Issues and Requirements faced by

→ Engineer as Moral Leaders.

Page (44) case study

→ Pride & Honor → WW2
→ IQBAL

Date 3/12/2024

① The Challenger Case Study

28 Jan 1986

Top Management: NASA

h = 10 miles

Morton Thiokol = MT → Booster

Rockwell

After 72 seconds
blested

→ Main Engine
Fell

O-Ring → Connecting rubber bands

7 Astronauts

Probability of failure = 1 into 1 lak

700 Complexities

② Bhopal Gas Tragedy

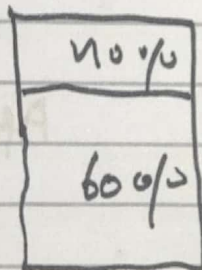
Methyl Isocyanate (MIC) Gas

insecticide, pesticide

2-3rd December 1984 (Mid night)

Madhya Pradesh, India
American Designed Factory

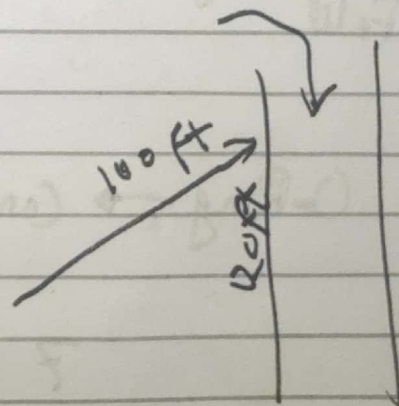
→ Stored in liquid form in tank upto 60%



→ gas scrubbers

→ Flare Tower

→ Valves System



→ Refrigeration System → to keep gas cool

40 Spread 40 Sq/Km

7000 injured

2M Affected

Case 22 years

4/12/2024

New Chapter (more details in book)

Environmental Ethics:-

is the study of
~~E~~ ~~C~~ ~~O~~ moral issues concerning
environment, and moral perspectives or
attitudes concerning those issues.

(i) What are environmental issues

(ii) " is your attitude towards it.
Prospective

e.g. Global Warming

E → Engineering

C → Change

O → Order

→ introduced after 2006

→ Coal Engine Example.

→ Engineers Control Everything

→ Three ^{According to Eco} things to keep in mind.

a) Ensure the protection and safety of environ

b) Prevent the degradation ^{like deforestation} of environment.

c) Slow down the exploitation of natural resources

→ WSSP report 2-3 ft water lowering

→ Marble 30% used
70% Damaged

→ Malam Jabba Trees

→ Jaskangir Tarren 90%
10%

→ Responsibility of Engineers / Duties :-

① Assessment of ~~in~~ how industries affect environment.

② Establish standards.

③ Counter Measures (D_2 tech)
↳ decompose after 90 days.

④ Environmental Awareness



Disasters

Anything which is out of control / order.

E-Wastages:-

EMIT radiations

Industrial Wastage disposal

Global Warming.

upto 2100 3°C increase.

→ Ozone Layer Depletion.

→ Acid Rain.

→ Recreational Impact

→ Aesthetic Impact

→ Meditation

→ Mysticism

→ Scientific Interest

Kingfisher

B₂ bomber
360 km/h

Date 10/12/2024

→ Computer Ethics :-

is defined as (i) study and analysis of nature ~~of~~ social impact of computer, (ii) Formulation and justification of policies for ethical use of computer.

→ Types of issues in CE :-

- (a) As an instrument of unethical act :-
- (b) Unemployment → Meter reading example.
- (c) Breaking Privacy
- (d) Fraud

(e) Trojan Horse.

(f) Health Hazards.

(g) Autonomous Nature of Computer.

Tokyo Stock's Exchange

6 lakh shares

1 share = 600 lakh

→ Computer ethics in Work Place :-

privacy and anonymity.

→ Legal Response of Computer Ethics :-

→ Ordinance 2007

Prevention

~~Power~~ of electronic crime and cyber crime

(i) Terrorism on internet.

(ii) Damage to data (I Love You Virus)

(iii) Electronic Thievery

(iv) Forgery of electronic documents.

(v) Un authorized entry.

→ 2016 another ordinance.

prevention Electric Crime Act.
PE (A)
became a permanent law

→ In 2022-2023, Data Protection and Privacy
bill. (still pending).

11/12/2024

3 CLOs

CLO1 Theories

CLO2

CLO3

Lecture

① Fundamental Canons

② Rule of Practice (Implementation)

③ Professional Obligations.

What are your responsibility

17/12/2024

National Society for Professional Engineers

difference (2)

PEC: You should teach others as well
NSPE: You are not responsible for teaching.

18/12/2024

Argument: a set of oblique bunch propositions having logical relation with each other, in which some propositions are supporting called premises and the propositions that are supported called conclusions.

Premises: An argument that supports some other proposition of the same argument is called premises.

Conclusion: proposition of an argument which is supported by some other propositions of the same argument is called conclusions.

Inference: the logical relationship b/w premises and the conclusion of an argument is called inference.

Argument: A bunch of propositions having logical relationship with each other in which one proposition (conclusion) is supported by its other proposition (premises)

Types;

- ① Deductive Argument
- ② Inductive Argument

1/1/2025

NAB → not included in exams.
Laws

→ Scientific Expt

→ Un // //

Sense Data

- ① ~~Tag~~ Attitude difference
- ② Testability.

- ① Proposal
- ② Conduct
- ③ Conclusion.

10 points.

Industrial Espionage

A spy in form of employee.

8/1/2024

Occupational Crime

i) Price fixing

ii) Industrial Espionage

(iii) Bootlegging

iv) Endangering lives

NAB X

Challenger Case ✓

Bhopal Gas ✓