HVPE - 11 LINIT-11 y public safety, ethicals lodes, professional responsibilities ate. rivinuzes the rich to the people, property and the succirorrents. Safety and Risks in Engineering.

Supply and Risks in Engineering.

people properly and environments. Safety or refers to the landitions of being protected from harm or nondesirable rutiones. this means beigning contincting that minimize harards at risk to acceptable levels. Risks is the possibility of suffering hours or loss. Components of Risk Hazard: A potential source of harm

Exposure: The extends to which people propely are

exposed to harm. Andritity: The likelihood that hazards will cause harm

A severity the extends of damage or hijny.

Hazed, Exposur, Robelstuty, Serverity, RICK ASSESSMENTS: Identifying, analyzing and aduling risks. ALT DO Identifying Fisk, Analysing, Evaluate, Miligite, Monitor (Review) mobiles inclining cost of ask with getting and RISK AND COST: Managing risk decisions must be belone the petulial benefits. (Risk + Cost)

Inter connected. cest of failure Cost of Mingation Cost Barfit Analysis. hut getim Plan. Oan be Exgensine. y fish Mongelius Failes it is Engineer should the higher Cost including also must balance dancy to intigation against property and life Itu potential Cost of not addring

Rick Benefits Analysis - method to evaluate the trade-off 5/10 the visles and benefits of a particular action or decisions. 4 cost : Screfits - A Shugle Times Bounding burnered bruning burnered bruning values to Each were framing Comparistion! the Saved Steps (1) Identifies Rish And Benefits
(2) Assess Risky - probability (3) Asses benefits -> resignifiede

of each rick Both Congere Rich A Bufits to defumines the benefits outweigh the ENGINEER'S RESPONSIBILITY OF SAFETY: Designing Safe systems Leftered by ramers 3 Adhering to Standards 3 pick Assessments and Managements (3) Ethical Duty
(3) Continuous Improvements. DOCIAL AND VALUE DIMENSIONS OF TECHNOLOGY: Impacts society and carries values dimensions that Can day he shope of where, operal 4 socials

Social Impact: Tech can transform how we line, work (4)
and interact. Cultural values: Different sowether may har different walness.

based on milmal beliefs and practices.

Third Considuations: and interact. Etheral Considerations:
Technology can raise dried questions, meh on implementation of Al. TECHNOLOGICAL PESSIMISM! Technology persimines is a believe Hat the technological advancements can lead to regative consequences. regative consequences. Division mental segradations! populations @ social Isolations: - Pelue faut fau Inhactum @ Bononic Disruptions: Loss of Jobs Betwical and Moral Issues: Genetic Modefications, Al etc. The momise of technologio

Medical technologio

Medical technologio

Manaputalin

D'Addring Global tossues - Christic changes, energy

dorlege 3 Floronic Growth -, high John dorleges. (9) Innovation & challenges. -> New Ideas. Computer Technology Privay: - Now-ardays augusts Technologie han been but for our daily life 80 (late Perbeny been an issues for us

Data allection 4 Surveillances @ Privacy Protections
Bethical Considerations Offegulation 4 Compilances.