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HEAT PROFESSIONAL ETHICS IN ENGINEERING Syllabus 2017 Regulation GE9076-PROFESSIONAL ETHICS IN ENGINEER Syllabus 2017 Regulation GE9076 PROFESSIONALE ETICHE IN ENGINEERING LT P C 3 0 0 3 OBJECTIVES: To enable students to create an awareness about Engineer Ethics and Human Values, to instil moral and social values and fidelity and to appreciate the rights of others. UNIT I HUMAN VALUES 10 Morals, Values and Ethics à Integrity à Ethical Work à Service Learning à Civic Virality à Respect for Others à Living Peacefully à Care à Sharing à Honesty à Rope à Evaluate Time à Cooperation à Commitment à Empathy à Self-confidence à Character à Spirituality à Introduction to Yoga and Meditation for Professional Excellence and Stress Management. UNIT II ENGINEERING ETHICS 9 Senses of EnEngineering Ethics à Variety of Moral Issues à Types of Investigation à Moral Dilemma à Moral Autonomy à Kohlberg Theory à Gilligan Theory à Consensus and Controversy à Occupational Role Models Theories of Right Action à Self-interest à Customs and Religion à Use UNIT III ENGINEER AS SOCIAL EXPERIMENT 9 Engineering as Experimentation à Engineers as Responsible Experiences à Codes of Ethics à A Balanced Outlook on Law. UNIT IV SECURITY, LIABILITIES AND RIGHTS 9 Safety and Risk Assessment – Risk Analysis and Risk Reduction – Compliance with Authority – Collective Bargaining – Confidentiality Conflicts of Interest à Crime at Work à Professional Rights à Employee Rights à Intellectual Property Rights (IPR) à Discrimination. UNIT V GLOBAL ISSUES 8 Multinational Corporations à Environmental Ethics à Computer Ethics à Weapons Development à Engineers as Managers à Consulting Engineers à Expert Witnesses and Consultants à Moral Leadership à Code of Conduct à Corporate Social Responsibility. TOTAL: 45 PERIODS At the end of the course, the student should be able to apply ethics in society, discuss ethical issues related to engineering, and realize responsibilities and rights in society. TEXT BOOKS: Mike W. Martin and Roland Schminzinger, Ethics in Engineering, Tata McGraw Hill, NewGovindarajan M, Natarajan S, Senthil Kumar V. S, Ethics of Engineering, Hall of India, New Delhi, 2004. References: Charles B. Fieddermann, àC Engineering Ethics, Pedson Hall, New Jersey, 2004. Charles E. Harris, Michael S. Pritchard and Michael J. Rabins, à “Engineering Ethics à” Concepts and Cases, LEARNING OF CENNGAGE, 2009. John R. Boherarright, àC Ethics and Business Conduct, Pearson Education, New Delhi, 2003 Edmund C. Seebauer and Robert L. Barry, àC Ethical Foundations for Scientists and Engineers, Oxford University Press, Oxford, 2001. Laura P. Hartman and Joe Desjardins, à “ àC Corporate Ethics: Decision Making for Personal Integrity and Social Responsibility MC Graw Hill Education, India Pvt. Ltd., New Delhi, 2013. World Community Assistance Center, Value Education “. Vethathiri Publications, erode, 2011. Engineering Ethics is the application of philosophical and moral systems to proper judgment and behavior by engineers in the conduct of their work, including the Products and Systems they design and consulting services they provide. In light of the work environment that inspired the new federal legislation of Sarbanes / Oxley on à – ÀChistle-Blowing “Protections, a clear understanding of engineering ethics is needed as never before. Starting from a concise overview of various approaches to engineering ethics, the real heart of the book will be about 13 detailed case studies, winning the story behind each, the official result and the “eal story” behind what happened. Using a consistent format and organization for each of one – giving background, historical summary, news about multimedia effects, outcome and interpretation – these case histories will be used to clearly illustrate the ethical issues at stake and what should or should not have been done by the engineers, scientists and managers involved in any case. Coverings Importance and Practical Benefits of Systematic Ethical Behavior in Any Engineering Work Environment Book to Explain the Implications of Federal Legislation by Sarbanes / Oxley “Whistle-Blowing” 13 Case histories, plus 10 Case histories additional histories – in constant format-in consistent format clearly demonstrate the relevance of ethics in the results of each provides effective investigative reports, with evidentiary material, court proceedings, outcome and analysis of follow-up Appendix provide copies of the National Society of Professional Code of Ethics for Engineers and the Institute of Electrical and Electronic Engineers of the Technical Code of Ethics, Mechanical Engineering, Aerospace, Civil, Chemical, Electrical, Environmental and biomedical; University engineers and graduates of the same disciplines; Industry managers responsible for product development, product safety and liability issues; Consultant the main production companies; Managers of the public sector and lawyers responsible for the application and pursuit of responsibilities, frauds and related legal areas that deal with the productand safety Part I: An Ethical FoundationCapital 1: A Personal Ethics Soil Engineering1.1 A real example1.2 What is Ethics Engineering? 1.3. Ethics 1.3.1 Utilitarianism1.3.2 Ethics 1.3.3 Ethics of Rights1.3.4 Ethics Virtuale1.4 Ethics Code Engineers.2 Ethics IEEE1.4.3 Efficacy of Code1.5 Professional Responsibility1.5.1 Protection of Security Public1.5.2 Technical Competence1.5.3 Early communication of negative and positive results to management1.6 Ethical dilemmas1.6.1 Security and welfare 1.6.2 Integrity and representation of data1.6.3 Commercial secrets and industrial intelligence1.6.4 Donation 1.6.5 Principle of informed consent1.6.6 Conflict of interest1.6.7 Responsibility for customers and customers 1.6.8 Equity treatment1.7 Determine your Personal Ethics Soil Engineering for Action1.7. 1What is your personal threshold? 1.8 References1.9 Questions for discussionChapter 2: Options for action When a Rearing the Ethics threshold2.1 Departure2.2 Whistleblowing2.3 Conscience of employees2.3.1 Employee protection legislation 2.3.2 Employee protection procedures2.3.3 Examples of employee protection2.4 Observers' conscience2.4.1 Observers protection legislation2.4.2 Observers protection procedures2.4.3 Observers Examples of server protection2.5 Conclusion2.6 References2.7 Questions for discussionPart II: National case studiesCapitolo 3: 1978 – Ford Pinto Explosion3.1 The story reported3.2 Rear History3.3 Adjustments Applicable3.4 A perspective of engineering3.5 References3.6 Questions for discussionChapter 4: 1981 – Kansas City Hyatt Re Skywalk Collapse4.1 The story reported4.2 Back story4.3 Adjustments applicable4.4 An engineering perspective4.5 References4.6 Questions for discussionChapter 5: 1986 – Explosion of the Space Shuttle Challenger5.1 The story reported5.2 Rear history5.3 Adjustments 5.4 An engineering perspective5.5 References5.6 Questions for discussionChapter 6: 1989 – Exxon Valdez Oil Spill6.1 The story reported6.2 Rear history6.3 Regulations applicable6.4 An engineering perspective6.5 References6.6 Questions for discussionChapter 7: 1989 – San Francisco-Oakland Bay Bridge Earthquake collapse7.1 The story 7.2 Back story 7.3 Adjustments 7.4 A perspective of engineering7.5 References7.6 Questions for discussionChapter 8: 1994 – Bjork Shiley Heart Valve Defect8.1 The story reported8.2 Rear story8.3 Adjustments Applica8.4 A perspective of engineering8.5 References8.6 Questions for discussionChapter 9: 1999 – Y2K Software With Version9.1 History reported9.2 The Rear History9.3 Adjustments 9.4 An engineering perspective9.5 References9.6 Questions for discussionChapter 10: 2002 – Bell Laboratories Scientific Fraud10.1 HistoryThe Retrospective History10.3 Applicable Regulations10.4 A Scientific Perspective10.5 References10.6 Questions for Discussion Chapter 11: 2002 Ford Explorer's Rollover11.1 The Reported History 11.2 The Rear Rear Applicable Rules11.4 An Engineering Perspective11.5 References11.6 Questions for DiscussionCattiera 12: 2003 – Columbia Space Shuttle Explosion12.1 The History Reported12.2 The Retro Story12.3 Applicable Rules12.4 An Engineering Perspective12.5 References12.6 Questions for Discussion 13: 2003 – Guidantanny Anchure EndOGraft System13.1 The Reported History13.2 The Retro Story13.3 Applicable Rules13.4 An Engineering Perspective13.5 References13.6 Questions for DiscussionCattiera 14: 2003 – Northeast Blackout14.1 The Return History14.3 Applicable Rules14.4 An Engineering Perspective14.5 References14.6 Questions for DiscussionC Attractor 15: 2004 à – “Indian Ocean Tsunami15.1 The story reported 15.2 The retro story15.3 Applicable regulations15.4 An engineering point of view15.5 References15. 6 Questions for DiscussionPart III: Individual Safety Case StudiesCapter 16: Anonymous Industrial Ethical Engineering Case16.1 Case 1: Biomedical Engineer16.2 Case 2: Mechanical IT Gineer16.3 Case 3: Electrical Engineer16.4 Case 4: Geologic Engineer16.5 Case 5: Biomedical Engineer16.6 Case 6: Electrical Engineer16.7 Case Case 7: Mechanical Engineer16.8 Case 8: Biomedical Engineer16.9 Case 9: Computer Engineer16.10 Case 10: Electrical Engineer Number of pages: 240 Language: English Copyright: © Academic Press 2006 Published: April 11, 2006 Print: Academic Press Hardcover ISBN: 9 780 120 885 312 Ebook ISBN: 9 780 080 458 021 Dr. Baura earned his BS Electrical Engineering degree from Loyola Marymount University, his MS Electrical Engineering and the MS Biomedical Engineering degree from Drexel University, and his PhD Bioengineering Lauroay from the University of Washington. Among his graduates, he worked as a Ring Drive Systems Engineer at AT & T Bell Labs. Then she spent 13 years in the medical device industry leading medical device research and managing research and product development in several companies. She holds the 20 U.S. patents. In her last position in the industry, Dr. Baura was vice president, research and chief scientist at cardiodynamics. In 2006 she returned to the Academy as Professor of Medical Devices at the Kack Laureate Institute of Applied Life Sciences, which is one of Claremont colleges. His career, Dr. Baura has an excellence of the samponed engineering curriculum. He has written four engineering textbooks, three of which are medical device textbooks. He is an engineering accreditation commissioner Abet. In his new position as Director of Engineering Science at Loyola, he is building a general engineering curriculum that incorporates a substantial industrial input and prepares new engineering graduates for positions in the medical device, semiconductor and wastewater treatment industries. Vice President, Research and Chief Scientist, Cardiodynamics San Diego, CA, USA “This is a most extraordinary book. Its contents range from valuable reference material on Sarbanes-Oxley and the engineering codes of the United States of America to some folksy stories, almost sentimental and personal. But, remarkably, the author's own personal commitment and integrity shine on every page. “ÀJohn Turnbull, the chemical engineer, August 2006” at first glance, this book seems more recently the new volumes on this subject. But where other books often written in whole or in part by philosophers and academics – can be boring to engineers who are not covert with ethical theory, Baura approaches decisively from an industrial perspective. It also addresses the subject with a concrete approach of problem solving and with a more elegant prose and better organization than what I find in other treatments. –Gael Ulrich, Chemical Engineering 2006” Despite the American objective, the examples are presented with a level of detail that will allow engineers everywhere to understand the underlying technical and behavioural problems. You will be welcomed by those teacher engineering ethics modules, especially with the updated examples that we remember all from the news. –Julia King, Materials Today, March 2007 Thank you for your review! Let's evaluate your input. Share your review So everyone else can use it too. Thank you for posting a review! 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