PROFESSIONAL ETHICS AND HUMAN VALUES 1001

(Common to all branches)

OBJECTIVE

• To create an awareness on Engineering Ethics and Human Values.
• To understand social responsibility of an engineer.
• To appreciate ethical dilemma while discharging duties in professional life.

1. HUMAN VALUES 02


2. ENGINEERING ETHICS 04


3. ENGINEERING AS SOCIAL EXPERIMENTATION 03

Engineering as experimentation - engineers as responsible experimenters - codes of ethics - a balanced outlook on law - the challenger case study

4. SAFETY, RESPONSIBILITIES AND RIGHTS 03

Safety and risk - assessment of safety and risk - risk benefit analysis and reducing risk - the three mile island and chernobyl case studies.

5. GLOBAL ISSUES 03

Multinational corporations - Environmental ethics - computer ethics - weapons development - engineers as managers-consulting engineers-engineers as expert witnesses and advisors -moral leadership-

TEXT BOOKS


REFERENCES


For more details, visit www.annauniv.edu/academics/index.html/

A Textbook on Professional Ethics and Human Values (As per Anna University Syllabus)

Naagarazan, R.S., Prof. & Director, Arunai Engineering College, Tiruvannamalai, Tamil Nadu.


Publication Year : 2006

Edition : 1st

Reprint : 2009

Pages : 184

Price : Rs. 95

Binding : Paperback

About the Book:

Engineering enables life and Ethics ennobles life Anon

This book is the fruition of four decades of teaching Mechanical Engineering subjects including Quality Engineering, Total Quality Management, and Principles of Management for the Bachelor and Master
degree courses in Engineering at Annamalai University, and then in Arunai Engineering College, Tiruvannamalai, by the author. Frank and continual feed back from the distinguished students and esteemed colleagues of the author obtained during teaching, enthused him in shaping this book into a valuable present to the scholars pursuing engineering.

This book amply covers the updated syllabus of Professional Ethics by Anna University. Besides the basic human values, Codes of ethics of major Indian professional societies, detailed risk analysis with illustrative examples are included. Further, twenty four crisp case studies covering a wide spectrum of topics in Professional Ethics, short-answer questions, long-answer questions with hints have been appended to sustain the interest of the engineering students. Besides the prescribed syllabus, ethics-related topics such as Social Acceptability SA 8000, Safety System OHSAS 18001 and Engineer-Manager interactions have also been explained. The student community as well as the teaching fraternity is certain to enjoy using this book, not only from the teaching-learning point of view, but also for their professional career and advancement.

About the Author:

Dr. R.S. Naagarazan (b. 1938) B.E. (Hons.), M.Tech., Ph.D., is working as Professor and Director (Academic), Arunai Engineering College, Tiruvannamalai, Tamil Nadu. He was earlier the Principal, AEC, and for over three decades, a distinguished faculty, and Professor and Head of the Deptt. of Production Engineering, Annamalai University. He is also the author of the SQC Data Book, New Age International Publishers, 2001. He has presented/published more than 30 research papers in national and international conferences/journals, in the Production Engineering area.

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