

Human Values and Professional Ethics

Course Credit: 1 (1-0-0)

Core Course

Course Coordinator: Dr Preeti Bhatt, Department of Humanities and Social Sciences

Course Objectives:

- To introduce fundamental human values and their significance in professional conduct.
- To explore the concept of professional ethics and its application in real-world scenarios.
- To understand the role of traditional knowledge systems in ethical decision-making.
- To navigate emerging ethical challenges posed by new technologies & AI.
- To develop critical thinking and problem-solving skills in ethical dilemmas.

Learning Outcomes:

At the end of this course, the students should be able to:

- articulate the importance of human values and professional conduct
- identify and analyze ethical issues in professional decisions
- appreciate the contributions of traditional knowledge systems to professional practices
- critically evaluate the ethical implications of emerging technologies

Assessment:

Class participation and presentations : 30%

Mid-term exam : 30%

Final exam : 40%

Course Contents:

Unit 1: Human Values & Professional Ethics	
1	Introduction to Human Values and Professional Ethics
2	Harnessing Traditional Knowledge with a Focus on Indian Knowledge Systems (IKS)
3	Spirituality, Values and Professional Ethics
Unit 2: Social Responsibility	
4	Social Welfare, Responsibility and Professional Decision-making
5	Ethical Dilemmas: Types and Resolution Frameworks
Unit 3: Ethics in Research & Communication	
6	Research Ethics
7	Ethics & Integrity in Communication & Publications
Unit 4: Ethics and New Age Technology	
8	Ethical Use of New Age Technology
9	Professional Conduct and Responsible Use of Technology and AI
Unit 5: Ethics and Environment	
10	Environmental Ethics & Practices
11	Tools and Frameworks for Sustainable Development
Unit 6: Ethics & Human Interactions	
12	Navigating Ethical Interactions, Group Dynamics & Competing Interests
13	Issues related to Diversity, Equity, and Inclusion
14	Reporting Professional Misconduct & Whistleblowing

Recommended Readings

- A.C. Bhaktivedanta Swami., The Science of Self-realization. The Bhaktivedanta Book Trust International, Inc., P.O. Box 1437, Alachua, FL 32616, USA; Bhaktivedanta Book Trust, Hare Krishna Land, Juhu, Mumbai.
- Andrew Light & Holmes Rolston III, Environmental Ethics, (Wiley Blackwell, 2002)
- Clancy, R. F., & Zhu, Q. (2021). Global Engineering Ethics: What? Why? How? And When? *ASEE Annual Conference and Exposition*.
available at <https://peer.asee.org/3722>
- D. K. Chaturvedi, Professional Ethics Values and Consciousness, Ane Books Pvt. Ltd., 2023.
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- Davis, M. (1991). Thinking like an engineer: The place of a code of ethics in the practice of a profession, *Philosophy & Public Affairs*, 20(2), 150-167
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- Edmund G Seebauer and Robert L Berry, "Fundamental of Ethics for Scientists and Engineers", Oxford University Press, 2001.
- Elegbe, J. A. (2015). Emotional intelligence: Missing priority in engineering programs. *Journal of Business Studies Quarterly*, 7(2), 196-207. available at:
<https://www.proquest.com/docview/1755024715?pq-origsite=gscholar&fromopenview=true&sourcetype=Scholarly%20Journals>
- Fernández Aller, C., & Miñano Rubio, R. (2015). Social & ethical issues in engineering. (Case Study) available at: https://upcommons.upc.edu/bitstream/handle/2117/89178/CS_21.pdf
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- Govindarajan M, Natarajan S, Senthil Kumar V. S, Engineering Ethics, Prentice Hall of India, New Delhi, 2004.
- Harris, C. E. (2008). The good engineer: Giving virtue its due in engineering ethics. *Science and Engineering Ethics*, 14, 153-164. available at:
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- Harris, Charles E. (2018). *Engineering ethics: Concepts and cases*. Cengage
- Hughes, Claretha (2016). *Diversity intelligence: Integrating diversity intelligence alongside intellectual, emotional and cultural intelligence for leadership and career development*. Palgrave Macmillan
- Louis P. Pojman. "The moral life: An introductory reader in ethics and literature". New York, Oxford University Press, 2017.
- Marebane, S., Hans, R., & Kgaphola, P. (2023, September). Mapping of Studies on Ethical Responsibilities of Software Engineers. In *2023 IEEE AFRICON* (pp. 1-6). IEEE.
available at: <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10293734>
- Mike W. Martin and Roland Schinzinger, Ethics in Engineering, Tata McGraw Hill, New Delhi, 2003.
- Pojman & Pojman, Environmental Ethics, 5th Edition (Thomson-Wadsworth, 2008)
- Prem, E. (2023). From ethical AI frameworks to tools: a review of approaches. *AI and Ethics*, 3(3), 699-716.
available at: <https://link.springer.com/content/pdf/10.1007/s43681-023-00258-9.pdf>

- R R Gaur, R Sangal, G P Bagaria, A foundation course in human values and Professional Ethics, 2010.
- R.S. Naagarazan, "A Textbook on Professional Ethics and Human Values", New Age International Publishers, 2006.
- Robert Elliot, Environmental Ethics, (Oxford, 1995)
- Sanderson, C., Douglas, D., Lu, Q., Schleiger, E., Whittle, J., Lacey, J., ... & Hansen, D. (2023). AI ethics principles in practice: Perspectives of designers and developers. *IEEE Transactions on Technology and Society*.
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- Singh, D. (2006). *Emotional intelligence at work: A professional guide*. Sage.
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- Zhu, Q., & Jesiek, B. K. (2017, June). Engineering ethics in global context: Four fundamental approaches. In *2017 ASEE Annual Conference & Exposition*.
available at <https://peer.asee.org/engineering-ethics-in-global-context-four-fundamental-approaches>
- Zhu, Q., & Jesiek, B. K. (2020). Practicing engineering ethics in global context: A comparative study of expert and novice approaches to cross-cultural ethical situations. *Science and Engineering Ethics*, 26(4), 2097-2120.
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