



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, NAGPUR

Survey No. 140,141/1 behind Br. Sheshrao Wankhade Shetkari Sahkari Soot Girni,
Village - Waranga, Tahsil- Nagpur (Rural), District Nagpur, Maharashtra - 441108

Course Code:	HUL 304	Course Title:	Professional Ethics			
Category	Core/ Elective	Credit Assigned	L	T	P	C
			3	0	0	3
Pre-Requisite (if Any)	Nil	Type of Course	Humanities/Social Sciences			
Branch: CSE-DSA/OE Semester: I/V		Course Coordinator: Mr. Vikrant Dhenge Email: vdhenge@iiitn.ac.in Contact: 8600949029				

Course Outcomes:

After the successful completing of this course the students will be able to:

1. Define professional ethics associated with engineering profession.
2. Identify various types of ethics
3. Recognize the complimentary nature of ethics and human-machine interactions.
4. Illustrate the workplace responsibilities and ethical dilemmas associated with the engineering profession.
5. Demonstrate broad framework of responsible technology development and social impact of engineering solutions.

Course Contents:

Module 1: Basic concepts to understand Professional Ethics: Society, Social organization and Disorganization, Tradition and Modernization, Power and Social Justice, Values, Morality, Ethics, Human actions, Approaches to ethics.

Module 2: Types of Ethics: General ethics, Professional ethics, Legal ethics, Environmental ethics, Duty ethics and Right ethics, Corporate/Business ethics, Professional ethics in engineering profession, Code of Ethics in Engineering profession, Ethical Competency.

Module 3: Professional Responsibility and Ethical Dilemmas: Professional Responsibility, Social Responsibility, Corporate Social Responsibility, Ethical dilemmas, Resolving the ethical dilemmas, The conflict of interests, Whistle- blowing, ethical relativism, safety at work-place

Module 4: Technology Development and Professional Ethics: Appropriate Technology, Technology transfer and global justice, Surveillance, Issue of Privacy, Social impact of technology development and engineering solutions.

Module 5: Interactions between human and internet, Computer, data, and ethics, Data and sustainable development.

Case studies on corresponding modules for practical experiences.

Text Books:

1. Martin, M. W., & Schinzinger, R. (1989). *Ethics in engineering*. McGraw-Hill.
2. Camenisch, P.F. (1983). *Grounding Professional Ethics in a Pluralistic Society*, N.Y.: Haven Publications.
3. Gaur, R. R., Sangal, R., & Bagaria, G. P. (2010). *A Foundation Course in Human Values and Professionals Ethics*. Excel Books India.
4. World Bank. World development report 2021: Data for better lives. The World Bank; 2021 Jun 15.
5. Srinivasan, S., Comini, N. and Minges, M., 2021. The Importance of National Data Infrastructure for Low and Middle-Income Countries. *Available at SSRN 3898094*.
6. Pippa Norris. *Digital Divide: Civic Engagement, Information Poverty and the Internet worldwide*, Cambridge University Press, 2001.

References:

1. E.F. Schumacher, (1973). *Small is Beautiful: a study of economics as if people mattered*, Blond & Briggs, Britain.
2. Susan George, (1976). *How the Other Half Dies*, Penguin Press
3. PL Dhar, RR Gaur, (1990). *Science and Humanism*, Commonwealth Publishers.
4. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, (1972). *Limits to Growth- Club of Rome's report*, Universe Books.
5. E G Seebauer & Robert L. Berry, (2000). *Fundamentals of Ethics for Scientists and Engineers*, Oxford University Press.
6. R R Gaur, R Sangal, G P Bagaria, (2009). *A Foundation Course in Value Education*.
7. Koehn, D. (1995). *The Ground of Professional Ethics*, Routledge.
8. N. Tripathy, (2003). *Human Values*, New Age International Publishers.
9. J. Timmons Roberts and Amy Bellone Hite, Eds. *The Globalization and Development Reader: Perspectives on Development and Global Change*, Blackwell: London, 2007
Amartya Sen, *Development as Freedom*, Anchor Books: New York, 1999
10. *IT Governance: How Top Performers Manage IT Decision Rights for Superior Results*
Kindle Edition by Peter Weill (Author), Jeanne W. Ross