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

HUL 304 Professional Ethics
Teaching Plan

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

Course Outcomes:

After the successful completion of the course, the students will be able:

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.

Assessment Scheme

Examination Scheme		
Theory		
Sessional Exam 1 & 2	**End Semester Exam**	**Teacher Assessment**
15 Marks each	**60 Marks**	**10 Marks** **06 marks for 2 Assignments** **04 Marks for Attendance**
Total: 100 Marks		

Teaching Plan

Lecture No.	Name of Topic	CO Covered
Module 1		
1	Introduction to PE	CO1: Define professional ethics associated with engineering profession.
2	Basic Concepts to understand professional ethics Society Types of Society	
3	Social organization and disorganization Tradition vs modernization	
4	Power and social justice	
5	Human Values, morals, moral judgement	
6	Ethics & Human actions	
Module 2		
7	Types of ethics	CO2: Identify various types of ethics
8	General ethics Professional ethics	
9	Legal ethics Environmental Ethics	
10	Duty Ethics and Rights Ethics Corporate/ Business Ethics	
11	Professional ethics and engineering profession Code of ethics in Engineering Profession	
12	Ethical Competency Case Studies on Module 1 & Module 2	
13	Case Studies on Module 1 & Module 2	
Module 3		
14	Professional Responsibility Social Responsibility	CO4: Illustrate the workplace responsibilities and ethical dilemmas associated with the engineering profession.
15	Ethical Dilemmas	
16	Whistle Blowing	
17	Conflict of interest	
18	Ethical Relativism	

Module 4		
19	Technology Development & ethics	CO3: Recognize the complimentary nature of ethics and human-machine interactions. CO5: Demonstrate broad framework of responsible technology development and social impact of engineering solutions.
20	Appropriate Technology	
21	Technology Transfer & Global Justice	
22	Surveillance	
23	Social Impact of Technology Development & Engineering Solutions	
24	Case Studies	
25	Case Studies	
Module 5		
26	Interactions Between Human And Internet,	CO3: Recognize the complimentary nature of ethics and human-machine interactions. CO5: Demonstrate broad framework of responsible technology development and social impact of engineering solutions.
27	Computer, Data and Ethics	
28	Computer, Data and Ethics	
29	Computer, Data and Ethics	
30	Computer, Data and Ethics	
31	Effective Utilization Of Data For Sustainable Development	
32	Case Studies For Practical Experiences.	
33	Case Studies 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.

Reference Books

1. E.F. Schumacher, (1973). *Small is Beautiful: a study of economics as if people mattered*, Blond & Briggs, Britain.
2. Sussan 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), JeanneW. Ross

Name and Signature of Subject Co-ordinator

Mr. Vikrant L. Dhenge