BSI-120 Professional Ethics

# Contact Hours: Credit Hours:

Theory = 32 Theory = **2.0**

## Instructor: Muhammad Awais

**Course outcome:**

## COURSE LEARNING OUTCOMES:

Upon successful completion of the course, the student will be able to:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ser | CLO | Domain | Taxonomy level | PLO |
| 1. | Examine the rational of the diverse definitions of Ethics i.etheoretical, legal, professional, and personal; also discuss the relative advantages and disadvantages of ethical and unethical conduct. | Affective | 1 | 6, 7,  8,9 |
| 2. | Identify any religious, National/cultural, International law/doctrine dealing with Engineering Ethics or code of conduct of a professional society. | Affective | 2 | 6, 7,  8, 9 |
| 3. | Identify and debate Ethical case studies dealing with ethical dilemmas ranging from documents to complex engineering projects. Formulate possible solutions and responses to a given ethical dilemma and evaluate the possible consequences of these actions. | Affective | 3 |  |

## RELEVANT PROGRAM LEARNING OUTCOMES (PLOs):

The course is designed so that students will achieve the following PLOs:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Engineering Knowledge: | □ | 7 | Environment and Sustainability: | ☑ |
| 2 | Problem Analysis: | □ | 8 | Ethics: | ☑ |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3 | Design/Development of Solutions: | □ | 9 | Individual and Teamwork: | ☑ |
| 4 | Investigation: | ☐ | 10 | Communication: | ☐ |
| 5 | Modern Tool Usage: | ☐ | 11 | Project Management: | ☐ |
| 6 | The Engineer and Society: | ☑ | 12 | Lifelong Learning: | ☐ |

**COURSE CONTENTS & WEEKLY DISTRIBUTION:**

|  |  |  |
| --- | --- | --- |
| **Week** | **Topics** | **CLO/PLO** |
| 1 | Introduction to Ethics & Professional Ethics, Profession and Professionalism – Professional ideals  and virtues | 1 /6, 7, 8, 9 |
| 2 | Social Cognition and Erickson’s theory of Social  Development, Moral Dilemma, Kohlberg’s theory of  Moral Development, Maslow's hierarchy of needs. | 1 /6, 7, 8, 9 |
| 3 | Social Living/Society, Social Control and the value system. | 1 /6, 7, 8, 9 |
| 4 | Theories about right action – Self-interest – Customs  and religion, Islamic Approach to Ethics – Use of Ethical Theories-Utilitarianism, Deontological Ethics | 1, 2 /6, 7, 8, 9 |
| 5 | Presentation/Quiz/Activity |  |
| 6 | Engineering as experimentation – Engineers as responsible experimenters – Codes of Ethics – A Balanced Outlook on Law – The Challenger Case Study. | 2 /6, 7, 8, 9 |
| 7 | Safety and risk – Assessment of safety and risk – Risk Benefit Analysis – Reducing risk – The Three Mile Island and Chernobyl Case Studies/Bhopal Disaster | 2,3 /6, 7, 8, 9 |
| 8 | Presentation/Quiz/Activity | 3 |
| 9 | **Mid-Term Examination** |  |
| 10 | Occupational Crime – Fundamental Human Rights, Principal of Natural justice, Professional Rights –  Employee Rights – Discrimination. | 1 /6, 7, 8, 9 |
| 11 | Multinational Corporations- Engineers as Managers,  Moral Leadership, Engineers as Expert Witnesses and Advisors | 1, 2 /6, 7, 8, 9 |
| 12 | Contract Law. Ethical Implications of Contract | 2 /6, 7, 8, 9 |
| 13 | Environmental Ethics/Research Ethics/Cyber ethics Ethics. | 2 /6, 7, 8, 9 |
| 14 | Sample code of conduct. Codes of Ethics of Pakistan Engineering Council | 2 /6, 7, 8, 9 |
| 15 | Code of Professional Engineering Ethics, World Federation of Engineering Organizations | 2 /6, 7, 8, 9 |
| 16 | National Accountability Code of Conduct and Ethics | 2 /6, 7, 8, 9 |
| 17 | Presentation- |  |
| 18 | **Final Term Examination** |  |

# Teaching Methodology

* Lecturing, discussions/debates, Q&A sessions
* Written Assignments
* Quizzes
* Presentation

## Assessment

**Sessional (30%)**

* Assignments 46%
* Quizzes 34%
* Presentation 20%

**Mid Term (20%) Final Term (50%)**

**Reference/ Suggested Readings:**

Following are the suggested or recommended books/readings:

* + Ethics and the Conduct of Business by J.R Boatright, Pearson, India, 2005.
  + Society, Ethics and Technology by Morton Winston & Ralph Edelbach
  + Social Psychology and Human values by Malhon Brewster Smith.
  + Contract Ac 1872 by Kemeruddin bin Abbas
  + Towards a Theory of Human Rights: Religion, Law, Courts by Michael J. Perry
  + Mike Martin and Roland Schinzinger, Ethics in Engineering, McGraw Hill, New York, 1996
  + Charles D Fledderman, Engineering Ethics, Prentice Hall, New Mexico, 1999
  + Laura Schlesinger, How Could You Do That: The Abdication of Character, Courage, and Conscience, Harper Collins, New York, 1996.
  + Stephen Carter, Integrity, Basic Books, New York 1996.
  + Tom Rusk, The Power of Ethical Persuasion: From Conflict to Partnership at Work and in Private Life, Viking, New York, 1993.
  + Elements Of Philosophy: An Introduction, Abel Donald C., Stumpf Samuel Enoch, 2002. 4th Ed. McGraw Hill
  + Human Resource Management, R., Hollenbeck, J. Gerhart, B., & Wright, P. (2006), 5th Ed., McGraw Hill
  + Organizational Behaviour, Newstrom John W. (2007), (12th Ed), McGraw Hill
  + Organizational Behaviour, Luthans Fred, (2005), McGraw-Hill Inc.
  + Organizational Behaviour, Robins, Stephen, (2005), McGraw-Hill Inc.

