Code.	Course Name	L	T	P	Hr s	Credit
HUT 200	Professional Ethics	2	0	0	2	2

Preamble: To enable students to create awareness on ethics and human values.

Prerequisite: Nil

Course Outcomes: After the completion of the course the student will be able to

co 1	Understand the core values that shape the ethical behaviour of a professional.
CO 2	Adopt a good character and follow an ethical life.
CO 3	Explain the role and responsibility in technological development by keeping personal ethics and legal ethics.
CO 4	Solve moral and ethical problems through exploration and assessment by established experiments.
CO 5	Apply the knowledge of human values and social values to contemporary ethical values and global issues.

Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
CO 1								2			2	
CO 2								2			2	
CO 3								3			2	
CO 4								3			2	
CO 5								3			2	

Assessment Pattern

Bloom's	Continuous Assessme	ent Tests	End Semester Exam
category	1	2	
Remember	15	15	30



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Understood	20	20	40
Apply	15	15	30

Mark distribution

Total Marks	CIE	ESE	ESE Duration
150	50	100	3 hours

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Continuous Internal Evaluation Pattern:

Attendance: 10 marks

Continuous Assessment Tests (2 Nos): 25 marks

Assignments/Quiz: 15 marks

End Semester Examination Pattern: There will be two parts; Part A and Part B. Part A contains 10 questions with 2 questions from each module, having 3 marks for each question. Students should answer all questions. Part B contains 2 questions from each module of which student should answer any one. Each question can have maximum 2 sub-divisions and carry 14 marks.

Course Level Assessment Questions

Course Outcome 1 (CO1):

- 1. Define integrity and point out ethical values.
- Describe the qualities required to live a peaceful life.
- 3. Explain the role of engineers in modern society.

Course Outcome 2 (CO2)

- 1. Derive the codes of ethics.
- 2. Differentiate consensus and controversy.
- 3. Discuss in detail about character and confidence.

Course Outcome 3(CO3):

- 1. Explain the role of professional's ethics in technological development.
- 2. Distinguish between self interest and conflicts of interest.
- 3. Review on industrial standards and legal ethics.

Course Outcome 4 (CO4):

- 1. Illustrate the role of engineers as experimenters.
- 2. Interpret the terms safety and risk.
- 3. Show how the occupational crimes are resolved by keeping the rights of employees.



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Course Outcome 5 (CO5):

- Exemplify the engineers as managers.
- 2. Investigate the causes and effects of acid rain with a case study.
- 3. Explorate the need of environmental ethics in technological development.

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Model Ouestion paper

QP CODE: Reg No:	PAGES:3 Name :
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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY THIRD/FOURTH SEMESTER B.TECH DEGREE EXAMINATION, MONTH & YEAR

Course Code: HUT 200
Course Name: PROFESSIONAL ETHICS
Max. Marks: 100 Duration: 3 Hours (2019-Scheme)

PART A

(Answer all questions, each question carries 3 marks)

- 1. Define empathy and honesty.
- 2. Briefly explain about morals, values and ethics.
- 3. Interpret the two forms of self-respect.
- List out the models of professional roles.
- Indicate the advantages of using standards.
- 6. Point out the conditions required to define a valid consent?
- 7. Identify the conflicts of interests with an example?
- Recall confidentiality.
- 9. Conclude the features of biometric ethics.
- 10. Name any three professional societies and their role relevant to engineers.

(10x3 = 30 marks) PART B

(Answer one full question from each module, each question carries 14

marks) MODULE I

11. a) Classify the relationship between ethical values and law?

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- b) Compare between caring and sharing. (10+4=14 marks) Or
- 12. a) Exemplify a comprehensive review about integrity and respect for others.

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- b) Discuss about co-operation and commitment. (8+6 = 14 marks) MODULE II
- 13.a) Explain the three main levels of moral developments, deviced by Kohlberg.
- b) Differentiate moral codes and optimal codes. (10+4 = 14 marks) Or
- 14. a) Extrapolate the duty ethics and right ethics.
- b) Discuss in detail the three types of inquiries in engineering ethics (8+6 = 14 marks) MODULE

Ш

- 15.a) Summarize the following features of morally responsible engineers.
- (i) Moral autonomy (ii) Accountability
- b)Explain the rights of employees (8+6 = 14 marks) Or
- 16. a) Explain the reasons for Chernobyl mishap?
- b) Describe the methods to improve collegiality and loyalty. (8+6 = 14 marks) MODULE IV
- 17.a) Execute collegiality with respect to commitment, respect and connectedness.
- b) Identify conflicts of interests with an example. (8+6=14 marks) Or
- 18. a) Explain in detail about professional rights and employee rights.
- b) Exemplify engineers as managers.

MODULE V

- 19.a) Evaluate the technology transfer and appropriate technology.
- b) Explain about computer and internet ethics. (8+6 = 14 marks) Or
- 20. a) Investigate the causes and effects of acid rain with a case study.
- b) Conclude the features of ecocentric and biocentric ethics. (8+6=14 marks)

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<u>Syllabus</u>

Module 1 - Human Values

Morals, values and Ethics – Integrity- Academic integrity-Work Ethics- Service Learning- Civic Virtue Respect for others- Living peacefully- Caring and Sharing- Honestly- courage-Cooperation commitment Empathy-Self Confidence -Social Expectations.



Module 2 - Engineering Ethics & Professionalism.

Senses of Engineering Ethics - Variety of moral issues- Types of inquiry- Moral dilemmas -Moral Autonomy - Kohlberg's theory- Gilligan's theory- Consensus and Controversy-Profession and Professionalism- Models of professional roles-Theories about right action -Self interest-Customs and Religion- Uses of Ethical Theories.

Module 3- Engineering as social Experimentation.

Engineering as Experimentation – Engineers as responsible Experimenters- Codes of Ethics- Plagiarism A balanced outlook on law - Challenges case study- Bhopal gas tragedy.

Module 4- Responsibilities and Rights.

Collegiality and loyalty - Managing conflict- Respect for authority- Collective bargaining- Confidentiality Role of confidentiality in moral integrity-Conflicts of interest- Occupational crime- Professional rights Employee right- IPR Discrimination.

Module 5- Global Ethical Issues.

Multinational Corporations- Environmental Ethics- Business Ethics- Computer Ethics -Role in Technological Development-Engineers as Managers- Consulting Engineers- Engineers as Expert witnesses and advisors-Moral leadership.

Text Book

- M Govindarajan, S Natarajan and V S Senthil Kumar, Engineering Ethics, PHI Learning Private Ltd, New Delhi, 2012.
- R S Naagarazan, A text book on professional ethics and human values, New age international (P) limited, New Delhi, 2006.

Reference Books

- Mike W Martin and Roland Schinzinger, Ethics in Engineering,4th edition, Tata McGraw Hill Publishing Company Pvt Ltd, New Delhi,2014.
- Charles D Fleddermann, Engineering Ethics, Pearson Education/ Prentice Hall of India, New Jersey, 2004.
- Charles E Harris, Michael S Protchard and Michael J Rabins, Engineering Ethics- Concepts and cases, Wadsworth Thompson Learning, United states, 2005.
- 4. http://www.slideword.org/slidestag.aspx/human-values-and-Professional-ethics.

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Course Contents and Lecture Schedule

SL.N o	Topic	No. of Lectures 25
1	Module 1 – Human Values.	,



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Morals, values and Ethics, Integrity, Academic Integrity, Work Ethics	1
Service Learning, Civic Virtue, Respect for others, Living peacefully	1
Caring and Sharing, Honesty, Courage, Co-operation commitment	2
Empathy, Self Confidence, Social Expectations	1
Module 2- Engineering Ethics & Professionalism.	
Senses of Engineering Ethics, Variety of moral issues, Types of inquiry	1
Moral dilemmas, Moral Autonomy, Kohlberg's theory	1
Gilligan's theory, Consensus and Controversy, Profession& Professionalism, Models of professional roles, Theories about right action	2
Self interest-Customs and Religion, Uses of Ethical Theories	1
Module 3- Engineering as social Experimentation.	
Engineering as Experimentation, Engineers as responsible Experimenters	1
Codes of Ethics, Plagiarism, A balanced outlook on law	2
Challenger case study, Bhopal gas tragedy	2
Module 4- Responsibilities and Rights.	
Collegiality and loyalty, Managing conflict, Respect for authority	1
Collective bargaining, Confidentiality, Role of confidentiality in moral integrity, Conflicts of interest	2
Occupational crime, Professional rights, Employee right, IPR Discrimination	2
Module 5- Global Ethical Issues.	
Multinational Corporations, Environmental Ethics, Business Ethics, Computer Ethics	2
Role in Technological Development, Moral leadership	1
	Service Learning, Civic Virtue, Respect for others, Living peacefully Caring and Sharing, Honesty, Courage, Co-operation commitment Empathy, Self Confidence, Social Expectations Module 2- Engineering Ethics & Professionalism. Senses of Engineering Ethics, Variety of moral issues, Types of inquiry Moral dilemmas, Moral Autonomy, Kohlberg's theory Gilligan's theory, Consensus and Controversy, Profession& Professionalism, Models of professional roles, Theories about right action Self interest-Customs and Religion, Uses of Ethical Theories Module 3- Engineering as social Experimentation. Engineering as Experimentation, Engineers as responsible Experimenters Codes of Ethics, Plagiarism, A balanced outlook on law Challenger case study, Bhopal gas tragedy Module 4- Responsibilities and Rights. Collegiality and loyalty, Managing conflict, Respect for authority Collective bargaining, Confidentiality, Role of confidentiality in moral integrity, Conflicts of interest Occupational crime, Professional rights, Employee right, IPR Discrimination Module 5- Global Ethical Issues. Multinational Corporations, Environmental Ethics, Business Ethics, Computer Ethics



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