



NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

An ISO 9001:2015 & 14001:2015 Certified Institution, Affiliated to Anna University, Chennai

Approved by AICTE, New Delhi, Recognized by UGC with 2(f) & 12(B)

Re-accredited by NAAC "A+", NBA Accredited (UG Courses: AERO & CSE)

Nehru Gardens, Thirumalayampalayam, Coimbatore – 641 105



1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Course file

Subject Name: Professional Ethics in Engineering

Subject Code: GE 8076

Department of Mechanical Engineering



NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

T. M. Palayam, Coimbatore-641 105

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Accredited by NAAC, Recognized by UGC with Section 2(f) and 12(B)

NBA Accredited Department: AERONAUTICAL, CSE, MECHANICAL



DEPARTMENT OF MECHANICAL ENGINEERING

2021-2022

Course Code/Name: GE8076 - Professional Ethics in Engineering

Name of the faculty: S. Jenisha

Year/Semester/ Class: VIII Mech 8th Sem.

COURSE FILE CONTENTS

1. A & A book (at Top)	21. Internal Test-II Marks Statement
2. Question Paper Feedback Form	22. Question paper for Internal Test – II
3. CO/PO/PSO Attainment	23. Review Questions for Internal Test-II
4. University Exam Question Paper	24. Remedial Class Details
5. Consolidated Internal Marks and attendance Statement	25. Micro Analysis for Test 1
6. Tutorial Sheets for the Subjects Applicable	26. Assignment 1
7. Course Post Analysis	27. List of Students (A/B/C Categories)
8. Remedial Class Details	28. 3 Sample Answer Scripts for internal test I (Above average, Average, Below Average)
9. Micro Analysis for Test III	29. Internal Test-I Marks Statement
10. Assignment 3	30. Question paper for Internal Test – I
11. List of Students (A/B/C Categories)	31. Review Questions for Internal Test-I
12. 3 Sample Answer Scripts for internal test III (Above average, Average, Below Average)	32. Course Pre analysis
13. Internal Test-III Marks Statement	33. Course Plan
14. Question paper for Internal Test – III	34. Utilization Chart, Course Plan and Batch details (applicable for practical courses)
15. Review Questions for Internal Test-III	35. Time Table (Individual Faculty Time Table)
16. Remedial Class Details	36. Question Bank
17. Micro Analysis for Test II	37. Previous Years University Examination Question Papers
18. Assignment 2	38. Notes of Lesson
19. List of Students (A/B/C Categories)	39. Name List (Duly signed by Class Advisor and HoD)
20. 3 Sample Answer Scripts for internal test II (Above average, Average, Below Average)	40. Syllabus copy – Duly signed by Course Instructor and HoD



P. Mani Arasan
Principal

Dr. P. MANIARASAN
Principal

Nehru Institute of Engg. & Technology
T.M.Palayam, Coimbatore - 641 105

M.S.L.
HoD

S. J.
4/7/22



ANNA UNIVERSITY QUESTION PAPER - FEED BACK FORM MARCH 2022

- 1 Course Name : Professional Ethics in Engineering
- 2 Course Code and QP Code : G128076 - 20693
- 3 Date of Exam : 30-6-2022
- 4 Name of the Faculty Member(s) who handled Course : 1. S. Jeeva
2.
3.
- 5 Are the Part-A Questions well spread (If No, Give Specific Remarks) : Yes/No
- 6 Are the Part-B Questions well spread (If No, Give Specific Remarks) : Yes/No
- 7 Are Questions equally covered in all Units (If No give Specific Remarks) : Yes/No
- 8 Are Questions asked from outside Syllabus (If Yes, Give Details with Question Numbers) : Yes/No
- 9 Percentage of Marks-Questions asked from Faculty Members' Question Bank : 70%
- 10 Rank Question Paper from the Students' Perspective : Easy/Moderate/Tough
- 11 Rank Question Paper from Faculty Perspective : Easy/Moderate/Tough
- 12 Any Specific Remarks on Question Paper that needed to communicate to University : 1. No
2.
3.
- 13 Expected Pass Percentage : 70%
- 14 Faculty Members' Specific Remarks on Question Paper (if any) : —

Signature of the Course Coordinator

HoD

College Code / Name : 7214 - NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Branch Code / Name : 114 - B.E. Mechanical Engineering

University : AUC

Regulation : 2017

Semester : 03

S.No	Register Number	Name	GE8076	IE8893	ME8811	MG8091	MG8591
1	721418114021	ABHIR R	18		18		17
2	721418114022	ABIN B	16		17		16
3	721418114023	ABINESH A			18	15	16
4	721418114024	ABINESHWA GOKULNATH G		16	18		17
5	721418114025	AJAI KUMAR S	18		18		18
6	721418114027	AKHIL CHANDRAN	19		18		17
7	721418114028	AKHILAN K	19		18		18
8	721418114029	AKSHAY K R	17		17		17
9	721418114011	ARAVAZHI R M		17	18		17
10	721418114012	ARAVINTH S		17	17		16
11	721418114013	ARIKARAN M			17	16	16
12	721418114015	ARYAN P	16		18		16
13	721418114016	ASHIK P A	16		18		17
14	721418114017	AVINASH S		16	16		16
15	721418114018	BALAJI K		16	18		16
16	721418114019	BHARATH S	16		16		16
17	721418114020	BHUVANESHWARAN S	17		16		15
18	721418114023	JANAKIRAMAN S		17	18		16
19	721418114024	JEFFRY P		17	18		16
20	721418114025	JEYAKUMAR M			18	18	17
21	721418114027	KALAIYARASAN K			17	17	16
22	721418114028	KARTHICK RAJA S			16	16	16
23	721418114031	LAKSHMANAN M			18	16	16
24	721418114033	MITHUN K	17		17		17
25	721418114034	MOHAMED JAMSHY A	17		17		17
26	721418114037	NOBLE A			18	17	17
27	721418114039	PRAVEEN V		18	18		16
28	721418114041	RAJASELVAM V			17	18	17
29	721418114042	RAKUL A			16	18	15
30	721418114043	RUBAN T		17	16		16
31	721418114044	SAJEEVAN S			18	17	17
32	721418114047	SHARON BABU	18		16		16
33	721418114048	SIDHARTH P N			18	16	17
34	721418114049	SIJIL S		18	17		17
35	721418114050	SREEJITH S			17	16	16
36	721418114051	SRI NARAYANA MOORTHY M	18		18		16
37	721418114052	SRINIVAS A		17	17		15
38	721418114053	SRIRAM C			16	15	15
39	721418114056	THIRUGNANAMUTHU M		17	16		15
40	721418114057	TILJO JOHNSON	16		16		16
41	721418114058	UMAPATHI M		17	18		15
42	721418114059	VASANTH S		17	18		16
43	721418114062	VISHNU DAS E S	19		18		17
44	721418114301	BHARATH KUMAR M		18	18		17
45	721418114302	DEPHINE SHALIM R		17	18		15
46	721418114303	SHAFIQ AHAMED U			17	17	16
47	721418114701	ABHISANKAR P R	16		17		15
48	721418114702	KRISHNAPRASAD E	17		18		15
49	721418114703	MANIMARAN T	16		18		16
50	721418114704	MOHAMMED AZHAR A N	17		17		15
51	721418114705	PANDIPRAKASH M			18	16	17

Internal Marks Report

College Code / Name : 7214 - NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Branch Code / Name : 114 - B.E. Mechanical Engineering

Semester : 08

University : AUC

Regulation : 2017

S.No	Register Number	Name	GE8076	IE8693	ME8811	MG8091	MG8591
52	72141E114706	SUDHARSAN G A	17		18		18
53	72141E114621	VISHNURAM R			16	16	15



ANNA UNIVERSITY :: CHENNAI - 600 025
OFFICE OF THE CONTROLLER OF EXAMINATIONS

Assessment Details Entered

APRIL / MAY EXAMINATION, 2022 - EXAMINATIONS

Inst Code & Name : 7214 - NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Branch Code / Name : 114 : B.E. Mechanical Engineering University : AUC
Semester : 08

Register No.	Name of the Student	Subjects	Attend hr 1	Total hr 1	Attend hr 2	Total hr 2	IM 2	Attend hr 3	Tot hr 3	IM 3	Attend hr 4	Total hr 4	IM 4
721418114001	ABJITH R	GE8076	9	10	9	10	92	10	10	80	15	15	96
		ME8811									300	300	92
		MG8591	10	10	10	10	83	10	10	85	15	15	85
721418114002	ABIN B	GE8076	10	10	10	10	81	9	10	70	15	15	94
		ME8811									280	300	86
		MG8591	9	10	9	10	82	10	10	79	14	15	82
721418114003	ABINESH A	ME8811									280	300	88
		MG8091	10	10	10	10	70	10	10	72	15	15	88
		MG8591	8	10	8	10	75	9	10	89	14	15	83
721418114004	ABINESHWA GOKULNATH G	IE8693	10	10	10	10	80	9	10	88	15	15	70
		ME8811									290	300	90
		MG8591	10	10	10	10	90	10	10	80	14	15	85
721418114005	AJAI KUMAR S	GE8076	10	10	10	10	90	9	10	88	14	15	96
		ME8811									300	300	92
		MG8591	9	10	9	10	88	9	10	92	15	15	88
721418114007	AKHIL CHANDRAN	GE8076	9	10	9	10	92	10	10	90	14	15	96
		ME8811									280	300	88
		MG8591	8	10	8	10	76	8	10	92	14	15	90
721418114008	AKHILAN K	GE8076	9	10	9	10	94	9	10	88	15	15	96
		ME8811									290	300	92
		MG8591	9	10	9	10	86	10	10	94	15	15	90
721418114009	AKSHAY K R	GE8076	8	10	8	10	85	9	10	80	15	15	90
		ME8811									270	300	85
		MG8591	9	10	9	10	86	10	10	82	13	15	82
721418114011	ARAVAZHI R M	IE8693	8	10	8	10	80	10	10	82	14	15	88
		ME8811									270	300	88
		MG8591	8	10	8	10	80	8	10	87	14	15	84
721418114012	ARAVINTH S	IE8693	8	10	8	10	85	9	10	80	14	15	86
		ME8811									280	300	84
		MG8591	9	10	8	10	81	9	10	80	15	15	79
721418114013	ARIKARAN M	ME8811									280	300	86
		MG8091	9	10	9	10	70	9	10	76	15	15	90
		MG8591	8	10	8	10	78	9	10	81	14	15	79
721418114015	ARYAN P	GE8076	8	10	8	10	80	10	10	80	14	15	82
		ME8811									280	300	88
		MG8591	8	10	8	10	78	9	10	77	13	15	89
721418114016	ASHIK P A	GE8076	8	10	8	10	82	9	10	74	15	15	84
		ME8811									280	300	88
		MG8591	9	10	9	10	81	9	10	80	14	15	88
721418114017	AVINASH S	IE8693	8	10	8	10	87	9	10	70	15	15	82
		ME8811									270	300	82
		MG8591	8	10	8	10	74	8	10	82	13	15	78
721418114018	BALAJI K	IE8693	8	10	8	10	80	10	10	78	15	15	86
		ME8811									270	300	88
		MG8591	10	10	10	10	82	10	10	75	14	15	79
721418114019	BHARATH S	GE8076	8	10	8	10	80	9	10	72	14	15	86
		ME8811									270	300	80
		MG8591	8	10	8	10	72	9	10	74	14	15	91
721418114020	BHUVANESHWARAN S	GE8076	8	10	8	10	81	9	10	74	13	15	96
		ME8811									270	300	78
		MG8591	8	10	8	10	73	9	10	72	14	15	78
721418114023	JANAKIRAMAN S	IE8693	9	10	9	10	90	10	10	72	15	15	88
		ME8811									280	300	88



ANNA UNIVERSITY :: CHENNAI - 600 025

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Assessment Details Entered
APRIL / MAY EXAMINATION, 2022 - EXAMINATIONS

Inst Code & Name : 7214 - NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Inst Code & Name	Subject	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
721418114004 JERRY P	MG8091	9	10	9	10	75	9	10	90	13	15					
	IE8693	8	10	8	10	88	9	10	79	14	15					
	ME8811									280	300					
	MG8591	10	10	10	10	82	10	10	79	15	15					
721418114005 JAYAKUNAR M	ME8811									280	300					
	MG8091	9	10	9	10	90	9	10	82	14	15					
	MG8591	8	10	8	10	81	10	10	86	14	15					
	ME8811									280	300					
721418114007 KALAYARASAN K	MG8091	9	10	9	10	80	9	10	80	15	15					
	MG8591	9	10	9	10	75	9	10	82	13	15					
	ME8811									280	300					
	MG8091	9	10	9	10	80	9	10	80	15	15					
721418114008 KARTHICK RAJA S	ME8811									270	300					
	MG8091	10	10	10	10	70	10	10	74	14	15					
	MG8591	8	10	8	10	74	8	10	81	14	15					
	ME8811									280	300					
721418114031 LAKSHMANAN M	MG8091	9	10	9	10	70	9	10	78	14	15					
	MG8591	8	10	8	10	81	10	10	78	15	15					
	ME8811									280	300					
	MG8091	9	10	9	10	70	9	10	78	14	15					
721418114033 NITHUN K	GE8076	9	10	9	10	80	9	10	76	15	15					
	ME8811									290	300					
	MG8591	8	10	8	10	90	9	10	83	14	15					
	GE8076	10	10	10	10	80	10	10	80	14	15					
721418114034 MOHAMED JAMSHY A	ME8811									280	300					
	MG8591	9	10	9	10	84	9	10	79	14	15					
	ME8811									300	300					
	MG8091	10	10	10	10	76	10	10	82	14	15					
721418114039 PRAVEEN V	MG8591	9	10	9	10	81	9	10	85	15	15					
	IE8693	8	10	8	10	96	9	10	94	15	15					
	ME8811									280	300					
	MG8591	8	10	8	10	88	9	10	79	14	15					
721418114041 RAJASELVAM V	ME8811									290	300					
	MG8091	10	10	10	10	90	10	10	90	15	15					
	MG8591	9	10	9	10	76	9	10	93	14	15					
	ME8811									280	300					
721418114042 RAKULA	MG8091	10	10	10	10	90	10	10	90	14	15					
	MG8591	8	10	8	10	75	8	10	77	13	15					
	ME8811									280	300					
	IE8693	9	10	9	10	83	10	10	83	15	15					
721418114043 RUBAN T	ME8811									280	300					
	MG8591	8	10	8	10	78	10	10	83	15	15					
	ME8811									280	300					
	MG8091	10	10	10	10	90	10	10	80	15	15					
721418114044 SAJEEVAN S	MG8591	8	10	8	10	88	10	10	92	14	15					
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	MG8091	10	10	10	10	90	10	10	80	15	15					
	MG8591	8	10	8	10	88	10	10	92	14	15					
721418114047 SHARON BABU	GE8076	10	10	10	10	90	10	10	88	15	15					
	ME8811									280	300					
	MG8591	8	10	9	10	85	9	10	72	14	15					
	ME8811									290	300					
721418114048 SIDHARTH P N	MG8091	9	10	9	10	70	9	10	74	15	15					
	MG8591	8	10	8	10	88	9	10	82	14	15					
	ME8811									280	300					
	IE8693	10	10	10	10	80	9	10	92	15	15					
721418114049 SIJIL S	ME8811									290	300					
	MG8591	8	10	8	10	84	9	10	85	13	15					
	ME8811									290	300					
	MG8091	9	10	9	10	70	9	10	76	14	15					
721418114051 SRI NARAYANA MOORTHY M	MG8591	8	10	8	10	86	8	10	74	14	15					
	GE8076	10	10	10	10	92	10	10	86	15	15					
	ME8811									300	300					
	MG8591	8	10	8	10	75	10	10	76	15	15					
721418114052 SRINIVAS A	IE8693	10	10	10	10	81	9	10	90	14	15					
	ME8811									290	300					
	MG8591	8	10	8	10	72	8	10	72	14	15					
	ME8811									290	300					

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NBA Accredited UG Courses: AERO, CSE, MECH



Teaching Learning Report

Department Name	Mechanical Engineering
Academic Year	2018-2021 (Even Semester)
Name of the Faculty I/C	Mrs.S.Jenisha
Name of the Subject	Professional Ethics in Engineering
Class / Semester	IV / VIII SEMESTER
Date / Time / Duration	21.03.2022 /12.25am-1.10pm /50 minutes
Total No. of Beneficiaries	18
Topic of the Activity	Kohlberg's Theory
Innovative Pedagogy ICT Activity	PPT
Tool Used in the Pedagogy Activity If any	

Objective of the activity:

1. To apply legal guidelines and norms in performing duties so as to be a respectable engineer of life.
2. Practice moral judgment in conditions of dilemma.

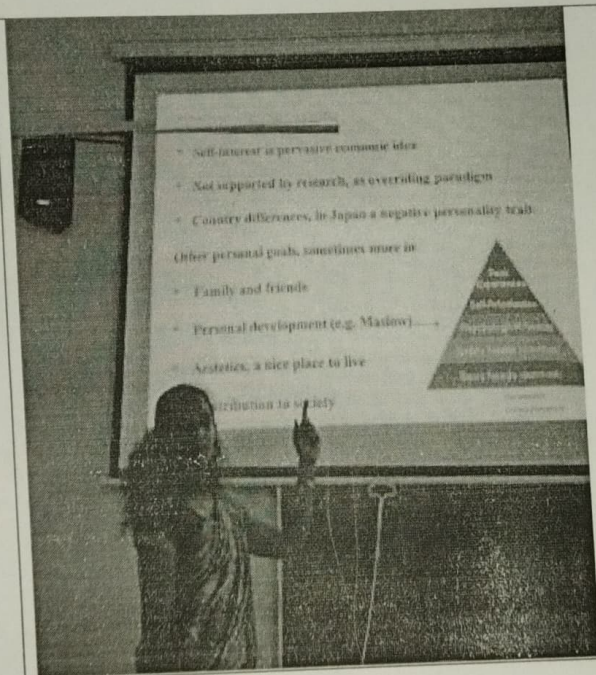
Outcome of the activity :

1. The students will understand their own responsible and rights in their professional carrier
2. The students will understand the moral values and they will be clear in taking decision of their own.

Video Evidence of Interactive Session

<https://www.youtube.com/watch?v=sBop4yfH4pg>

Photo Evidence of Interactive Learning by the students



S. J. 23/3/22
Event Coordinator

DQAC Department Coordinator

M.S.L.
HoD

Vision: To mould the Mechanical Engineering aspirants into Employable Engineers and Successful Entrepreneur.

Mission: To be center of excellence in Mechanical Engineering in providing Quality Education
 To upgrade infrastructure and faculty competency for Continuous Development
 To inculcate a work culture that yields Socio-Economical Engineers and Intellectuals
 To install leadership qualities to pursue Professional Career and Entrepreneurship

Reg. No. :

7 2 1 4 1 8 1 1 4 0 5 1

Question Paper Code : 20693

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.

Sixth/Seventh/Eighth Semester

Aeronautical Engineering

GE 8076 — PROFESSIONAL ETHICS IN ENGINEERING

(Common to Aerospace Engineering/Agriculture Engineering/Automobile Engineering/Biomedical Engineering/Civil Engineering/Computer Science and Engineering/Computer and Communication Engineering/Electrical and Electronics Engineering/Electronics and Communication Engineering/Electronics and Instrumentation Engineering/Electronics and Telecommunication Engineering/Environmental Engineering/Geoinformatics Engineering/Industrial Engineering/Industrial Engineering and Management/Instrumentation and Control Engineering/Manufacturing Engineering/Marine Engineering/Material Science and Engineering/Mechanical Engineering/Mechanical Engineering (Sandwich)/Mechanical and Automation Engineering/Mechatronics Engineering/Medical Electronics/Petrochemical Engineering/Production Engineering/Robotics and Automation/Bio Technology/Chemical Engineering/Chemical and Electrochemical Engineering/Fashion Technology/Food Technology/Handloom and Textile Technology/Information Technology/Petrochemical Technology/Petroleum Engineering/Pharmaceutical Technology/Plastic Technology/Polymer Technology/Textile Chemistry/Textile Technology)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define Human Value.
2. What is Service learning?
3. Define Engineering Ethics.
4. Differentiate between Morals and Ethics.
5. What is code of Ethics?

6. Give note on the senses of responsibility for engineers.
7. What is meant by conflict of interest?
8. Give a brief note on types of risk.
9. Brief on the importance of Environmental ethics.
10. State the role of Corporate Social Responsibility.

PART B — (5 × 13 = 65 marks)

11. (a) Enumerate on the importance and characteristics of service learning.

Or

- (b) (i) State and explain the elements and benefits of Empathy. (8)

- (ii) Compare Empathy with Sympathy. (5)

12. (a) Discuss any two theories of Moral Autonomy.

Or

- (b) Give a detail note on models of Professional engineers.

13. (a) Discuss the importance of duty ethics and virtue in Engineering profession.

Or

- (b) Compare and contrast Engineering Experiment with Standard experiment with suitable example.

14. (a) Explain how elements of intellectual property rights benefits people.

Or

- (b) (i) Explain how the risks are reduced. (7)

- (ii) Explain the concept of Risk-Benefit Analysis. (6)

15. (a) Justify engineers as expert witness and advisors with suitable examples.

Or

- (b) Enumerate on the moral and ethical issues involved in use of computers.

PART C — (1 × 15 = 15 marks)

16. (a) Analyze the significance of Yoga and meditation for professional excellence and stress management.

Or

- (b) Detail on the scope and importance of Professional Ethics in Engineering.
-

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"Nehru Gardens" Thirumalayampalayam, Coimbatore - 641 105

DEPARTMENT OF MECHANICAL ENGINEERING

COURSE END SURVEY FOR THE COURSE OUTCOME (GRADING IN A SCALE OF 5)

Name of the Department

MECH

Course Name

Professional Ethics in Engineering

Course Code
Year/Sem

GE8076
IV/VIII

Answer				
Excellent (4)	Good (3)	Moderate (2)	Fair (1)	Poor (0)

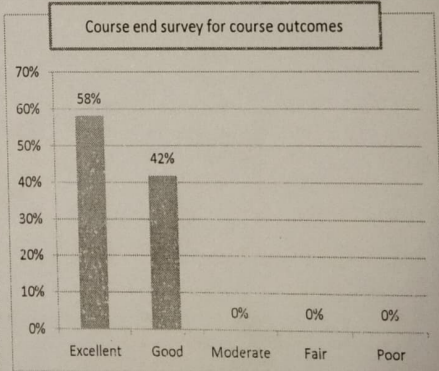
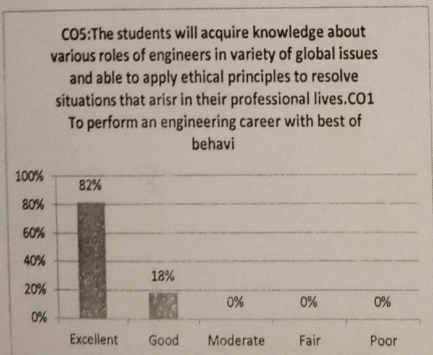
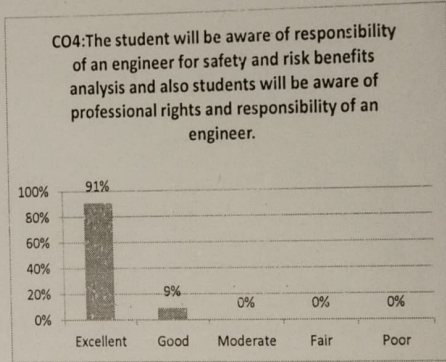
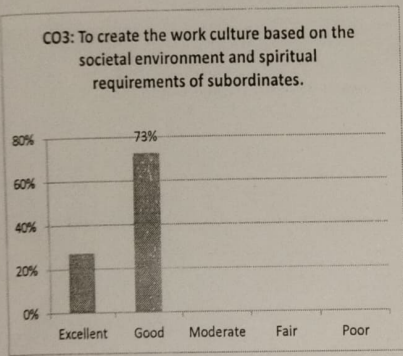
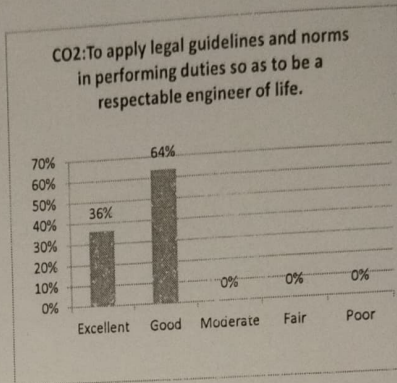
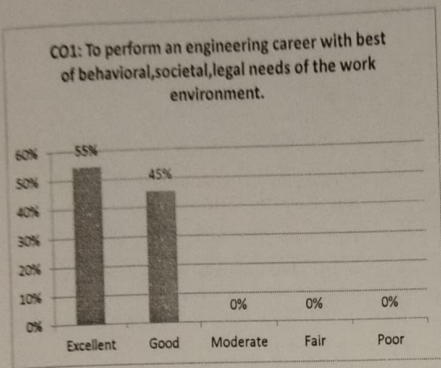
Questions

- CO1 To perform an engineering career with best of behavioral, societal, legal needs of the work environment.
- CO2 To apply legal guidelines and norms in performing duties so as to be a respectable engineer of life
- CO3 To create the work culture based on the societal environment and spiritual requirements of subordinates.
- CO4 The student will be aware of responsibility of an engineer for safety and risk benefits analysis and also students will be aware of professional rights and responsibility of an engineer.
- CO5 The students will acquire knowledge about various roles of engineers in variety of global issues and able to apply ethical principles to resolve situations that arise in their professional lives.

S.No	Name of the Student	C113.1	C113.2	C113.3	C113.4	C113.5
1	721418114001 Abijith R	4	4	4	3	3
2	721418114002 Abin B	4	3	4	4	3
3	721418114005 Ajaikumar S	4	4	3	4	4
4	721418114007 AkhilChandran	4	3	3	4	4
5	721418114008 Akhilan K	4	3	3	4	4
6	721418114009 Akshay K R	4	4	3	4	4
7	721418114015 Aryan P	3	3	3	4	4
8	721418114016 Ashik P A	3	3	3	4	4
9	721418114019 Bharath S	3	4	3	4	4
10	721418114020 Bhuvaneshwaran S	3	3	3	4	4
11	721418114033 Mithun K	3	3	4	4	4
12	721418114034 Mohamed jamsly A	3	3	4	4	3
13	721418114047 Sharon babu	4	4	3	3	3
14	721418114051 Sri narayanamoorthy	4	3	4	4	4
15	721418114057 Tiljojohnson	3	4	3	4	4
16	721418114062 Vishnu das E S	4	4	4	3	4
17	721418114701 Abhisankar PR	4	4	4	4	3
18	721418114702 Krishnaprasad E	3	4	4	3	4
19	721418114703 Manimaran T	4	3	3	4	4
20	721418114704 Mohammed Azhar	4	4	4	4	3
21	721418114706 Sudharsan G A	4	3	4	4	4

COURSE END SURVEY FOR COURSE OUTCOMES

Course Outcomes	Excellent	Good	Moderate	Fair	Poor
CO1: To perform an engineering career with best of behavioral, societal, legal needs of the work environment.	55%	45%	0%	0%	0%
CO2: To apply legal guidelines and norms in performing duties so as to be a respectable engineer of life	36%	64%	0%	0%	0%
CO3: To create the work culture based on the societal environment and spiritual requirements of subordinates.	27%	73%	0%	0%	0%
CO4: The student will be aware of responsibility of an engineer for safety and risk benefits analysis and also students will be aware of professional rights and responsibility of an engineer.	91%	9%	0%	0%	0%
CO5: The students will acquire knowledge about various roles of engineers in variety of global issues and able to apply ethical principles to resolve situations that arise in their professional lives.	82%	18%	0%	0%	0%
	58%	42%	0%	0%	0%



S. J. A.
Faculty
8/6/22

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M. S. L.
HoD

PROFESSIONAL ETHICS

ASSIGNMENT - 2

S. J.
25/5/22.

By:

SRI NARAYANA MOORTHY. M

721418114051

Engineers as Expert Witnesses

Engineers are required to act as consultants and provide expert opinion and views in many legal cases of the past events. They are required to explain the the cause of accidents, malfunctions and other technological behaviours of structures or building collapse, and damage to the property are some of the cases where testimonies are needed. The focus is on the past.

Eye-witness

Eye-witness gives evidence on only what has been seen or heard actually (perceived facts)

Expert-witness

1. Gives expert view on the facts in their area of their expertise.
2. Interprets the facts, in term of the cause and effect relationship.
3. Comments on the view of the opposite side.
4. Reports on the professional standards especially on the precautions when the product is made or the service is provided.

The engineers, who act as expert-witnesses, are likely to abuse their positions in the following manner:

1. Hired Guns:

Mostly lawyers hire engineers to serve the interest of their clients. Lawyers are permitted and required to project the case in a way favorable to their clients. But the engineers have the obligations to thoroughly examine the events and demonstrate their professional integrity to testify only the truth in the court. They do not serve the clients of the lawyers directly. They hired guns backward white lies and distortions, as demanded by the lawyers.

PROFESSIONAL ETHICS IN ENGINEERING

Atkins
IVth Mech

ASSIGNMENT - 2

S. H. 12/14/12/14008

A BALANCED OUTLOOK ON LAW

The balanced outlook on law in engineering practices stresses the necessity of laws and regulations and their limitations in directing and controlling the engineering practices. Laws are necessary because of competitive nature of free enterprise, which does not encourage moral initiatives. Laws are needed to provide a minimum level of compliance.

The following codes are typical examples of how they were enforced in the past:

CODE FOR BUILDERS BY HAMMURABI

Hammurabi the King of Babylon in 1753 framed the following code for builders:

"If a builder has built a house for a man and has not made his work sound and house which he has built has fallen down and caused the death of householder that builder shall be put to death. If it causes the death of householder's son, they shall put the builder's son to death. If it destroys property, he shall replace anything it has destroyed; and because he has not made the house sound which he has built and it has fallen down, he shall rebuild the house which has fallen down from his own property. If a builder has built a house for a man and does not make his work perfect and the wall bulges, that builder shall put that wall in sound condition at his own cost.

seriously

There is a need to put in soft regulation in these years

Assignment-1A Balanced Outlook on Law

The balanced outlook on law in engineering practices stresses the necessity of laws and regulations and their limitations in directing and controlling the engineering practices. Laws are necessary because of competitive nature of free enterprise, which does not encourage moral initiatives. Laws are needed to provide a minimum level of compliance.

The following codes are typical examples of how they were enforced in the past:

Code For Builders by Hammurabi

Hammurabi the king of Babylon in 1758 framed the following code for builders:

"If a builder has built a house for a man and has not made his work sound and house which he has built has fallen down and caused the death of householder that builder shall be put to death. If it causes the death of householder's son, they shall put the builder's son to death. If it destroys property, he shall replace anything it has destroyed; and because he has not made the house sound which he has built and it has fallen down from his own property. If a builder has built a house for a man and does not make his work perfect and the wall bulges, that builder shall put that wall in sound condition at his own cost.

This code was expected to put in self-regulation seriously in those days.

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"Nehru Gardens" Thirumalayampalayam, Coimbatore - 641 105
Department of Mechanical Engineering

BE Mechanical

Sub Code & Name:

Faculty Name:

Internal Test-III Marksheet

E8076 Professional Ethics in Engineering

S.Jenisha

Reg.No.	Name	Total marks (50)	Total marks (100)
721418114001	Abijith R	48	96
721418114002	Abin B	47	94
721418114005	Ajaikumar S	48	96
721418114007	AkhilChandran	48	96
721418114008	Akhilan K	48	96
721418114009	Akshay K R	45	90
721418114015	Aryan P	41	82
721418114016	Ashik P A	42	84
721418114019	Bharath S	43	86
721418114020	Bhuvaneshwaran S	48	96
721418114033	Mithun K	48	96
721418114034	Mohamed jamshy A	48	96
721418114047	Sharon babu	49	98
721418114051	Sri narayanamoorthy	49	98
721418114057	Tiljojohnson	46	92
721418114062	Vishnu das E S	48	96
721418114701	Abhisankar PR	40	80
721418114702	Krishnaprasad E	48	96
721418114703	Manimaran T	40	80
721418114704	Mohammed Azhar	45	90
721418114706	Sudharsan G A	40	80

S. J.
Faculty 15/10/22

M.S.C.
HoD



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DEPARTMENT OF MECHANICAL ENGINEERING

B.E./B.Tech.(Full Time) - Internal Assessment Examination - III, JUNE 2022

REGULATION - 2017

GE8076 PROFESSIONAL ETHICS IN ENGINEERING

Course Instructor	:	Mrs.S.Jenisha	Portion	:	2 Units
Year / Semester	:	IV/ VIII	Date / Session	:	14-6-22
Duration	:	90 minutes	Max. Marks	:	50

Knowledge Level	K1: Remembering	K2: Understanding	K3: Applying	K4: Analyzing	K5: Evaluating	K6: Creating
Course Outcomes	CO4	To understand about safety, responsibility and rights for professional excellences				
	CO5	To make the students to understand and aware about global issues of ethics and its applicably				

PART - A (Answer ALL questions)

(5×2 = 10 Marks)

Q.No	Questions	Knowledge Level / Course Outcomes
1.	Define Risk	K2/CO4
2.	What is meant by Liability?	K1/CO4
3.	Distinguish between authority and power.	K2/CO4
4.	What is meant by environmental ethics?	K2/CO5
5.	What is moral leadership?	K1/CO5

PART-B (Answer ALL questions)

(2×13 = 26 Marks)

6. a.	Distinguish between employee rights and professional rights	K2/CO4
(Or)		
6. b.	Define Risk Benefit analysis. Why it is conducted?. What is the limitation of RBA?	K2/CO4
7. a.	What are the main elements of IPR? Give examples of Discrimination	K2/CO4
(Or)		
7. b.	Explain in details about Moral Leadership.	K1/CO5

Our vision is to mould the youngsters to acquire sound knowledge in technical and scientific fields to face the future challenges by continuous upgradation of all resources and processes for the benefit of humanity as envisaged by our great leader pandit Jawaharlal Nehru.

To built a strong centre of learning and research in Engineering and Technology.

To facilitate the youth to learn and imbibe discipline, culture and spirituality

To produce quality engineers, dedicated scientists and leaders.

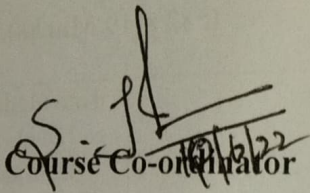
To encourage Entrepreneurship

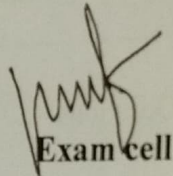
To face the challenging needs of the global industries.

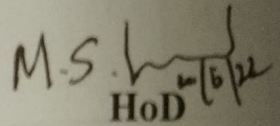
(1×14 = 14 Marks)

PART-C

8.a.	Explain in detail the various advantages and disadvantages of MNCs.	K3/CO5
(Or)		
8.b.	Justify with suitable examples Engineers as Managers.	K2/CO5


Course Co-ordinator


Exam cell


HoD



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"Nehru Gardens" Thirumalayampalayam, Coimbatore – 641 105



Department of Mechanical Engineering
GE 8076 Professional Ethics in Engineering
VIII SEMESTER
Review Questions Internal III

PART-A

1. State the significance of Safety.
2. Define Risk
3. What is meant by disaster?
4. Draw the assessment curve on safety and risk.
5. State the significance of Scenario Analysis
6. What is FMEA?
7. What is FTA?
8. State the significance of Event Tree Analysis (ETA)
9. Differentiate between Risk analysis and Risk benefit analysis
10. Mention few steps to reduce risks.
11. What is meant by Liability?
12. What is meant by Safe Exit?
13. What is causal responsibility?
14. What is intellectual property right?
15. What is collective bargaining?
16. What do you mean by conflict of interest. Give example.
17. State few advantages of Multinational Corporations.
18. Mention few disadvantages of MNCs.
19. What is meant by environmental ethics?
20. What is meant by computer ethics?
21. What is corporate responsibility?
22. What is social responsibility?
23. Define Code of conduct
24. What is moral leadership?

PART-B

1. (a). What are the main elements of IPR. Give examples of Discrimination.
(b). State the necessity of Risk Benefit Analysis.
2. (a). Write short notes on Occupational crime.
(b). Distinguish between employee rights and professional rights.
3. Discuss the significance of Intellectual Property rights. Also explain the legislation covering IPR in India.
4. Define Risk Benefit analysis. Why it is conducted?. What is the limitation of RBA?

5. (a). Define the term Risk and Safety. How we an engineer assess the safety?
(b). What is the factors that affect risk acceptability? What is the use of knowledge of risk acceptance to engineer?
6. Discuss the features, guideline and procedures of whistle blowing
7. Discuss Event Tree analysis with some practical example of risk analysis.
8. Explain the concept of liability with suitable example.
9. Explain the concept of Confidentiality in detail.
10. What are the types of conflicts of interests and the different ways to avoid conflicts of interests
11. Explain in detail the various advantages and disadvantages of MNCs.
12. Discuss in details about Environmental Ethics.
13. Explain and enumerate the significance of the concept of Computer Ethics.
14. Describe in details about the Global issue of Weapons development.
15. Justify with suitable examples Engineers as Managers.
16. Justify Engineers as Expert witness and Advisors with suitable examples.
17. Explain in details about Moral Leadership.
18. Discuss in details about Code of Conduct.
19. Describe in details about Corporate Responsibility.
20. Explain in details about the Management of conflicts and the Principles of conflict resolution.



NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

'Nehru Gardens', Thirumalayampalayam, Coimbatore - 641 105, Tamil Nadu
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Anna University Examination - Internal Assessment Test

Office Use Only

Read the instructions given overleaf carefully before filling in the title page. (To be filled in by the candidate)

College Code	7 2 1 4		
College Name	Nehru Institute of Engineering and Technology, Coimbatore		
Degree / Branch	BE / Mechanical	Semester	08
Subject Code	CE8076	Date & Session	14/06/22 (FN)
Subject Title	Professional Ethics in Engineering	No. of Pages used	14
Put Tick (✓) Mark Here:			
Question Paper Set	A	B	
Internal Test	I	II	III
Year of Study	I	II	III
Class	A	B	

All particulars given are verified

Signature of the Hall Superintendent with date

Name of the Hall Superintendent

Roll Number

Register Number

7	2	1	4	1	8	1	1	4	0	3	3
0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9

DO NOT WRITE THE REGISTER NUMBER, COLLEGE CODE AND THE NAME IN ANY OTHER PART OF THE ANSWER BOOK

(To be filled in by the candidate)

Date : 14/06/22 Session : FN

Subject Code/Title : CE8076 Professional Ethics in Engineering

Question Paper Set : 1 No. of Pages used :

Date : 14/06/22 Session : FN Question Paper Set : 1

Subject Code / Title : CE8076 Professional ethics in Engineering

Instruction to the Candidate : Put a tick mark (✓) for the questions attended in the tick mark column against each question in V-1

Part - A		PART - B & C					GRAND TOTAL (IN WORDS)
Question No.	Marks	Question No.	Marks			Total	
			i	ii	iii		
1	2	6	a	✓		10	Four One
2	2		b			10	
3	2	7	a	✓		12	
4	2		b				
5	2	8	a	12		12	
			b				
							GRAND TOTAL
Total						38	48

Declaration by the Examiner : Verified that all the questions attended by the student are valued and the total is found to be correct

Date: 15/6/22 Name of the Examiner: S. Venkatesha Signature of the Examiner: [Signature]

Declaration by the Scrutiny : Verified that all the questions attended by the student are valued and the total is found to be correct

Date: Name of the Scrutiny: [Signature] Signature of the Scrutiny: M.S.V

NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

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 Affiliated to Anna University, Chennai, Recognized by UGC with 2(f) and 12(B), Accredited by NBA & NAAC
Anna University Examination - Internal Assessment Test

Read the instructions given overleaf carefully before filling in the title page. (To be filled in by the candidate)

College Code	7214		
College Name	Nehru Institute of Engineering and Technology, Coimbatore		
Degree / Branch	B-E Mechanical	Semester	VIII
Subject Code	GE8076	Date & Session	14/6/22-FN
Subject Title	PROFESSIONAL ETHICS IN ENGINEERING		No. of Pages used: 13

Put Tick (✓) Mark Here:

Question Paper Set	A	B
Internal Test	I	II
Year of Study	I	II
Class	A	B

All particulars given are verified

Signature of the Hall Superintendent with date
 P. Jayaganesh
 Name of the Hall Superintendent

Roll Number

Register Number

7	2	1	4	8	1	1	4	0	4	7
0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9

DO NOT WRITE THE REGISTER NUMBER, COLLEGE CODE AND THE NAME IN ANY OTHER PART OF THE ANSWER BOOK

(To be filled in by the candidate)

Date: 14-6-2022 Session: Fore Noon

Subject Code/Title: GE8076 PROFESSIONAL ETHICS IN ENGINEERING

Question Paper Set: No. of Pages used: 13

Date: 14-6-2022 Session: Fore Noon Question Paper Set: PROFESSIONAL ETHICS IN ENGINEERING

Subject Code / Title: GE8076

Instruction to the Candidate: Put a tick mark (✓) for the questions attended in the tick mark column against each question in V-1

Part - A		PART - B & C					GRAND TOTAL (IN WORDS)
Question No.	Marks	Question No.	Marks			Total	
			i	ii	iii		
1	2	6	a	11		11	Four three
2	2		b			12	
3	2	7	a	11		12	
4	2		b				
5	2	8	a	11		12	
			b				
Total						33+2	45

Declaration by the Examiner: Verified that all the questions attended by the student are valued and the total is found to be correct

Date: _____ Name of the Examiner: S. Tejaswini Signature of the Examiner: _____

Declaration by the Scrutiny: Verified that all the questions attended by the student are valued and the total is found to be correct

Date: _____ Name of the Scrutiny: Dr. M. Sankaran Signature of the Scrutiny: _____



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 NBA Accredited UG Courses: AERO | CSE | MECH

DEPARTMENT OF MECHANICAL ENGINEERING
B.E./B.Tech.(Full Time) - Internal Assessment Examination II, May 2022
REGULATION - 2017 GE8076-Professional Ethics in Engineering (Set 2)

Course Instructor	: Mrs.S.Jenisha	Portion	: 1.5 Units
Year / Semester	: IV / VIII	Date / Session	: 18-5-2022
Duration	: 90 minutes	Max. Marks	: 50

Knowledge Level	K1: Remembering	K2: Understanding	K3: Applying	K4: Analyzing	K5: Evaluating	K6: Creating
Course Outcomes	CO2	To understand and practice moral judgment in conditions of dilemma				
	CO3	Applying the code of ethics to social experimentation				

PART -A (Answer ALL questions)(5×2 = 10 Marks)

Q.No	Questions	Knowledge Level / Course Outcomes
1.	State Gilligan's theory.	K1/CO2
2.	Narrate the significance of Customs.	K2/CO2
3.	Enumerate the roles of codes?	K3/CO3
4.	Define Ethical Conventionalism?	K1/CO3
5.	What is meant by Engineering Experimentation?	K2/CO3

PART-B (Answer ALL questions)(2×13 = 26 Marks)

6. a.	Discuss in detail about Kohlberg's Theory	K2/CO2
(Or)		
6. b.	Discuss in detail about the concept of Moral Dilemmas and Moral Autonomy.	K2/CO2
7. a.	Explain detail about industrial standards.	K3/CO3
(Or)		
7. b.	Explain detail about balanced outlook on law.	K2/CO3

PART-C(1×14 = 14 Marks)

8.a.	Discuss on the roles played by the codes of ethics set by professional societies.	K2/CO2
(Or)		
8.b.	Explain in detail about engineers as responsible experimenters.	K3/CO3

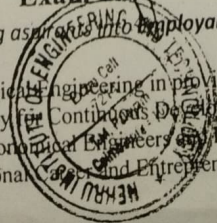
Course Co-ordinator
 S. J. Jenisha
 18/5/22

Examiner
 M. S. L.
 16/5/22

HoD
 M. S. L.
 16/5/22

Vision: To Mould the Mechanical Engineering aspirants into employable Engineers and Successful Entrepreneur

Mission: To be centre of excellence in Mechanical Engineering in providing Quality Education.
 To upgrade infrastructure and faculty competency for Continuous Development.
 To inculcate a work culture that yields Socio-Economical Engineers and Intellectuals.
 To instill leadership qualities to pursue Professional Career and Entrepreneurship





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"Nehru Gardens" Thirumalayampalayam, Coimbatore – 641 105



Department of Mechanical Engineering
GE 8076 Professional Ethics in Engineering
VIII SEMESTER

Review Questions Internal II

PART A

1. State Kohlbergs theory.
2. State Gilligans theory.
3. What is meant by consensus?
4. State the implications of Controversy.
5. Mention few steps in confronting Moral Dilemma.
6. Mention the models of professional roles.
7. State the theories about right action.
8. State the significance of Self Interest.
9. Narrate the significance of Customs.
10. State the significance of religion.
11. Mention various ethical theories available.
12. State the problem of vagueness.
13. Specify the problem of conflicting reasons.
14. State the principle of Utilitarianism.
15. What are the conditions required to define a valid consent?
16. What are the two main elements which are included to understand informed consent?
17. What are the general features of morally responsible engineers?
18. Define Code?
19. Enumerate the roles of codes?

PART-B

1. (a). Explain the scope of Engineering Ethics . Highlight the importance of Ethics.
(b). Explain in details about the senses of Engineering Ethics.
2. (a).Discuss in detail the various types of Moral issues
(b). Specify the various types of Ethical inquiries available.
3. Discuss in detail about the concept of
(a).Moral Dilemmas.
(b).Moral Autonomy.
4. Discuss in details about
(a) Gilligans Theory
(b) Kohlbergs Theory
- 5.Explain about

(a) Consensus and Controversy

(b) Heinz's Theory

6. Explain in detail about Professional and Professionalism.
7. Explain in details the professionalism ideals and virtues.
8. Discuss in details the various theories about right action.
9. Explain in detail the traits of Self Interest, Customs and Religions.
10. Explain in details the various ethical theories and their uses.
11. How can engineer become a responsible experimenter? Highlight the code of ethics for Engineers.
- 12.. What is the important code of ethics? Give brief account on '4' canons of codes of ethics quoted by international standard or association.
- 13.. Discuss on the roles played by the codes of ethics set by professional societies.



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"Nehru Gardens" Thirumalayampalayam, Coimbatore - 641 105
Department of Mechanical Engineering

BE Mechanical Internal Test-II Marksheet
Sub Code & Name: E8076 Professional Ethics in Engineering
Faculty Name: S.Jenisha

S.No	Reg.No.	Name	Total marks (50)	Total marks (100)
1	721418114001	Abijith R	40	80
2	721418114002	Abin B	35	70
3	721418114005	Ajaikumar S	44	88
4	721418114007	AkhilChandran	45	90
5	721418114008	Akhilan K	44	88
6	721418114009	Akshay K R	40	80
7	721418114015	Aryan P	40	80
8	721418114016	Ashik P A	37	74
9	721418114019	Bharath S	36	72
10	721418114020	Bhuvaneshwaran S	37	74
11	721418114033	Mithun K	38	76
12	721418114034	Mohamed jamshy A	40	80
13	721418114047	Sharon babu	44	88
14	721418114051	Sri narayanamoorthy	43	86
15	721418114057	Tiljojohnson	38	76
16	721418114062	Vishnu das E S	46	92
17	721418114701	Abhisankar PR	37	74
18	721418114702	Krishnaprasad E	36	72
19	721418114703	Manimaran T	40	80
20	721418114704	Mohammed Azhar	35	70
21	721418114706	Sudharsan G A	42	84

S. Jenisha
Faculty

M.S.L.
HoD



NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

'Nehru Gardens', Thirunelvelyampalayam, Coimbatore - 641 105, Tamil Nadu.
 'Nehru Gardens', Thirunelvelyampalayam, Coimbatore - 641 105, Tamil Nadu.
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 Accredited by NBA & NAAC.
 Affiliated to Anna University, Chennai. Recognized by UGC with 2(f) and 12(B).
Anna University Examination - Internal Assessment Test

Roll Number

Office Use Only

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College Code	7 2 1 4
College Name	Nehru Institute of Engineering and Technology, Coimbatore
Degree / Branch	BE Mechanical
Subject Code	GE 8076
Subject Title	Professional ethics
Semester	8
Date & Session	18/05/22/AN
No. of Pages used	

Roll Number	
-------------	--

Register Number	7 2 1 6 1 8 1 1 4 0 0 7
-----------------	-------------------------

0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1
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4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9

Question Paper Set	A	B
Internal Test	I	II
Year of Study	I	II
Class	A	B

All particulars given are verified
[Signature]
 Signature of the Hall Superintendent with date
S. N. SUNDAR
 Name of the Hall Superintendent

DO NOT WRITE THE REGISTER NUMBER, COLLEGE CODE AND THE NAME IN ANY OTHER PART OF THE ANSWER BOOK

(To be filled in by the candidate)

Date : 18/05/22 Session : FN
 Subject Code/Title : GE 8076 Professional Ethics
 Question Paper Set : I No. of Pages used :

Date : 18/05/22 Session : FN Question Paper Set : I
 Subject Code / Title : GE 8076 Professional ethics.

Instruction to the Candidate : Put a tick mark (✓) for the questions attended in the tick mark column against each question in V-1

Part - A		PART - B & C					GRAND TOTAL (IN WORDS)
Question No.	Marks	Question No.	Marks			Total	
			i	ii	iii		
1	2	6	a	10		10	Four three five
2	2		b				
3	1	7	a	12		12	
4	2		b				
5	2	8	a	12		12	
			b				
Total	9					34	43

Declaration by the Examiner : Verified that all the questions attended by the student are valued and the total is found to be correct

23-5-22 Date
S. S. S. Name of the Examiner
[Signature] Signature of the Examiner

Declaration by the Scrutiny : Verified that all the questions attended by the student are valued and the total is found to be correct

Date
[Signature] Name of the Scrutiny
M. S. L. Signature of the Scrutiny



NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Anna University Examination - Internal Assessment Test

Ethics

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College Code	7 2 1 4		
College Name	Nehru Institute of Engineering and Technology, Coimbatore		
Degree / Branch	B.E Mechanical	Semester	08
Subject Code	GE8076	Date & Session	18/5/2022
Subject Title	Professional Ethics In Engineering	No. of Pages used	14
Put Tick (✓) Mark Here:			
Question Paper Set	A	B	
Internal Test	I	II	III
Year of Study	I	II	III IV
Class	A	B	

Roll Number

47

Register Number

721418114047

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9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

All particulars given are verified

R. V. S. S. S.
18/5/22

Signature of the Hall Superintendent with date

Name of the Hall Superintendent

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Office Use Only

(To be filled in by the candidate)

Date : 18/5/2022 Session : Fore Noon

Subject Code/Title : GE8076 Professional Ethics In Engineering

Question Paper Set : 2 No. of Pages used : 14

Office Use Only

(To be filled by the candidate)

Date : 18/5/2022 Session : fore Noon Question Paper Set : 2

Subject Code / Title : GE8076 professional Ethics In Engineering

Instruction to the Candidate : Put a tick mark (✓) for the questions attended in the tick mark column against each question in V-1

Part - A		PART - B & C					GRAND TOTAL (IN WORDS)
Question No.	Marks	Question No.	Marks			Total	
			i	ii	iii		
1 ✓	2	6	a ✓	12		12	Four zero
2 ✓	2		b				
3 ✓	1	7	a				
4 ✓	1		b ✓	12		12	
5 ✓	2	8	a				
			b ✓	12		12	
Total	8					36	44

Declaration by the Examiner : Verified that all the questions attended by the student are valued and the total is found to be correct

23-5-22
Date

S. J. S.
Name of the Examiner

S. J. S.
Signature of the Examiner

Declaration by the Scrutiny : Verified that all the questions attended by the student are valued and the total is found to be correct

Date

Dr. M. Sambasiva
Name of the Scrutiny

M. S. L.
Signature of the Scrutiny

NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Anna University Examination - Internal Assessment Test



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College Code: **7214**

College Name: **Nehru Institute of Engineering and Technology, Coimbatore**

Degree Branch: **BE Mechanical** Semester: **8th**

Subject Code: **GE8076** Date & Session: **18/5/22 AN**

Subject Title: **Professional ethics in engineering** No. of Pages used: _____

Roll Number: _____

Register Number: **721418114009**

0	0	0	0	0	0	0	0	0	0
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4	4	4	4	4	4	4	4	4	4
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6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

Put Tick ✓/Mark Here:

Question Paper Set: **A** **B**

Internal Test: **I** **II** **III**

Year of Study: **I** **II** **III** **IV**

Class: **B**

All particulars given are verified

Signature of the Hall Superintendent with date: **[Signature]**

Name of the Hall Superintendent: **S. JAYANTH**

DO NOT WRITE THE REGISTER NUMBER, COLLEGE CODE AND THE NAME IN ANY OTHER PART OF THE ANSWER BOOK

Office Use Only

(To be filled in by the candidate)

Date: **18/5/22** Session: **AN.F.N.**

Subject Code/Title: **GE8076 Professional ethics in engineering**

Question Paper Set: **2** No. of Pages used: _____

Office Use Only

(To be filled by the candidate)

Date: **18/5/22** Session: **F.N.** Question Paper Set: **2**

Subject Code / Title: **GE8076 Professional ethics in engineering**

Instruction to the Candidate : Put a tick mark (✓) for the questions attended in the tick mark column against each question in V-1

Part - A		PART - B & C					GRAND TOTAL (IN WORDS)
Question No.	Marks	Question No.	Marks			Total	
			i	ii	iii		
1	1	6	a	10		10	Four zero
2	2		b				
3	1	7	a	12		12	
4	2		b				
5	2	8	a	10		10	
			b				
Total	8					32	40

Declaration by the Examiner : Verified that all the questions attended by the student are valued and the total is found to be correct

Date: **23-5-22** Name of the Examiner: **S. Jayanth** Signature of the Examiner: **[Signature]**

Declaration by the Scrutiny : Verified that all the questions attended by the student are valued and the total is found to be correct

Date: _____ Name of the Scrutiny: **Dr. M. Srinivasan** Signature of the Scrutiny: **[Signature]**

PROFESSIONAL ETHICS
ASSIGNMENT-1

S. J. 10/10/20

SUDHARSHAN

IV - MECHANICAL

ENGINEERING

A Balanced outlook on law

The "balanced outlook on law" in engineering practice stresses the necessity of laws and regulations and also their limitations in directing and controlling the engineering practice.

Laws are necessary because people are not fully responsible by themselves and because of the competitive nature of the free enterprise, which does not encourage moral initiatives.

Code for Builders by Hammurabi

Hammurabi the king of Babylon in 1758.

"If a builder has built a house for a man and has not made his work sound and the house which he has built has fallen down and caused the death of the householder, that builder shall be put to death. If it causes the death on the householder's son, they shall pull that builder's son to death. If it causes the death of the householder's slave, he shall give slave for slave to the householder. If it destroys property, he shall replace anything it has destroyed; and because he has not made the house sound which he has built and it has fallen down, he shall rebuild the house which has fallen down from his own property. If a builder has built a house for a man and does not make his work perfect and the wall bulges, that builder shall put that wall in sound

ASSIGNMENT - 1

Sudharsan.01A

A Balanced Outlook on Law :-

The 'balanced outlook on law' in engineering practice stresses the necessity of laws and regulations and also their limitations in directing and controlling the engineering practice. Laws are necessary because, people are not fully responsible by themselves and because of the competitive nature of the free enterprise, which does not encourage moral initiative.

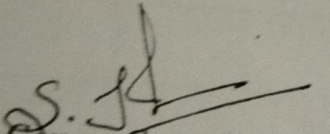
Code for Builders by Hammurabi :-

Hammurabi the king of Babylon in 1758 framed the following code for the builders:

"If a builder has built a house for a man has not made his work sound and the house which he has fallen down and caused the death of the householder shall be put to death. If it causes the death of the householder's son, they shall pull the builder's son to death. If it causes the death of the householder's slave, he shall give slave to the householder. If it destroys property he shall replace anything it has destroyed. If it has destroyed the house second he has

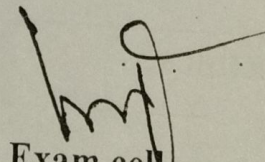
PART-C (1×14 = 14 Marks)

8.a.	Discuss in detail the various types of Moral issues	K3/CO1
(Or)		
8.b.	Explain the scope of Engineering Ethics. Highlight the importance of Ethics	K2/CO2


Course Co-ordinator

[S. Jenuha]

AP/3214


Exam cell

M.S. 4/11/22
HoD



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"Nehru Gardens" Thirumalayampalayam, Coimbatore – 641 105



Department of Mechanical Engineering
GE 8076 Professional Ethics in Engineering
VIII SEMESTER
Review Questions Internal I

UNIT –I

PART A

1. What are human values?
2. What are ethical values?
3. Distinguish values from ethics and culture.
4. What is integrity?
5. Define work ethics.
6. What is service learning?
7. Define integrity.
8. Define compromise.
9. Define self respect and self esteem.
10. What is commitment?
11. What is meant by self confidence?
12. What are the senses of Engineering Ethics?
13. Define Moral Dilemma.
14. What is Moral Autonomy?

PART B

1. Explain some important human values.
2. Write a detailed note on work ethics.
3. Explain integrity and honesty in ethics.
6. Explain caring, sharing and living peacefully.
7. Explain commitment and empathy.
9. Explain character and spirituality and their importance in ethics.
10. Explain the role of Yoga and meditation in the field of professional excellence and stress management
11. (a). Explain the scope of Engineering Ethics . Highlight the importance of Ethics.
(b). Explain in details about the senses of Engineering Ethics.
12. (a). Discuss in detail the various types of Moral issues
(b). Specify the various types of Ethical inquiries available.



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"Nehru Gardens" Thirumalayampalayam, Coimbatore - 641 105
Department of Mechanical Engineering



BE Mechanical
Sub Code & Name:
Faculty Name:

Internal Test-I Marksheet
E8076 Professional Ethics in Engineering
S.Jenisha

S.No	Reg.No.	Name	Total marks (50)	Total marks (100)
1	721418114001	Abijith R	46	92
2	721418114002	Abin B	41	82
3	721418114005	Ajaikumar S	45	90
4	721418114007	AkhilChandran	46	92
5	721418114008	Akhilan K	47	94
6	721418114009	Akshay K R	43	86
7	721418114015	Aryan P	40	80
8	721418114016	Ashik P A	41	82
9	721418114019	Bharath S	40	80
10	721418114020	Bhuvaneshwaran S	41	82
11	721418114033	Mithun K	40	80
12	721418114034	Mohamed jamshy A	40	80
13	721418114047	Sharon babu	45	90
14	721418114051	Sri narayanamoorthy	46	92
15	721418114057	Tiljojohnson	40	80
16	721418114062	Vishnu das E S	45	90
17	721418114701	Abhisankar PR	41	82
18	721418114702	Krishnaprasad E	40	80
19	721418114703	Manimaran T	40	80
20	721418114704	Mohammed Azhar	45	90
21	721418114706	Sudharsan G A	46	92

S. J.
Faculty 21/4/22

HoD

Name of the Department: MECH

Course Name: EVS

Course Code: GE8291
Year/Sem: IV/VIII

Answer				
Excellent (4)	Good (3)	Moderate (2)	Fair (1)	Poor (0)

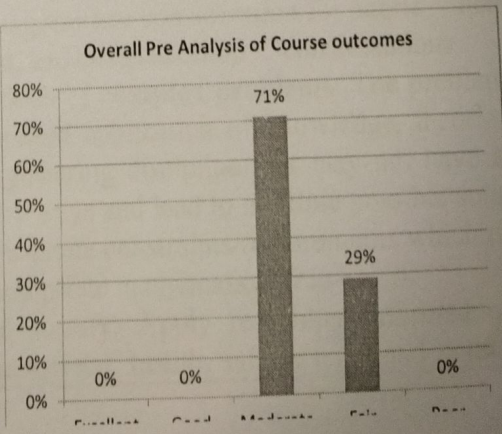
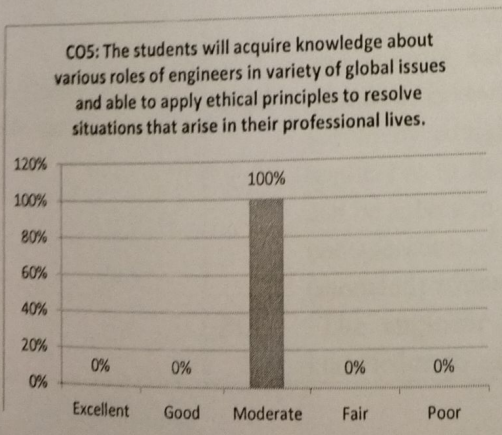
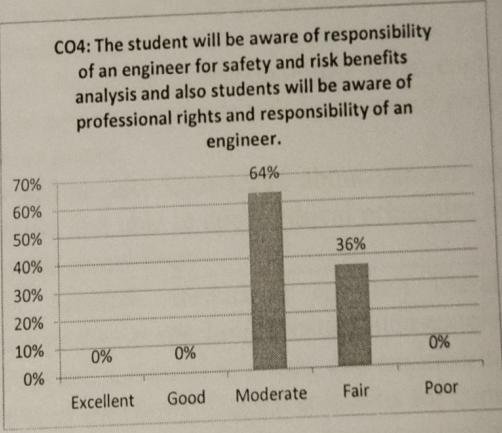
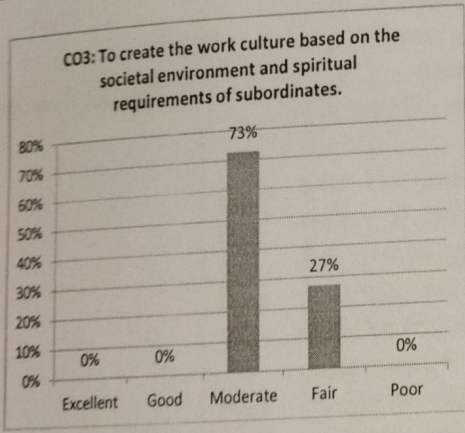
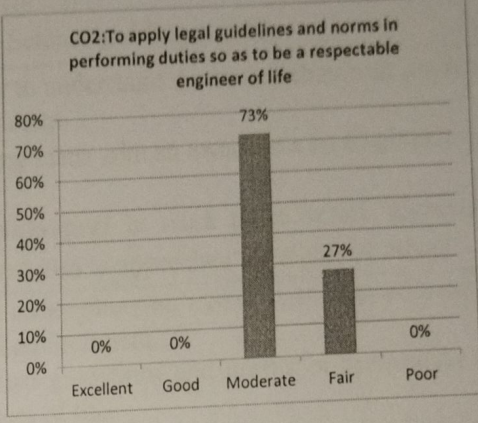
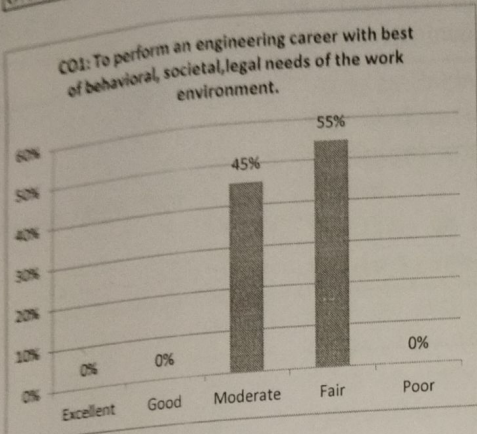
Questions

- CO1** To perform an engineering career with best of behavioral, societal, legal needs of the work environment.
CO2 To apply legal guidelines and norms in performing duties so as to be a respectable engineer of life
CO3 To create the work culture based on the societal environment and spiritual requirements of subordinates.
CO4 The student will be aware of responsibility of an engineer for safety and risk benefits analysis and also students will be aware of professional rights and responsibility of an engineer.
CO5 The students will acquire knowledge about various roles of engineers in variety of global issues and able to apply ethical principles to resolve situations that arise in their professional lives.

S.No	Reg.No	Name of the Student	C113.1	C113.2	C113.3	C113.4	C113.5
1	721418114001	Abijith R	1	2	1	1	2
2	721418114002	Abin B	2	2	2	1	2
3	721418114005	Ajaikumar S	1	2	1	1	2
4	721418114007	Akhil Chandran	2	2	2	1	2
5	721418114008	Akhilan K	1	2	2	2	2
6	721418114009	Akshay K R	2	2	2	2	2
7	721418114015	Aryan P	1	1	2	2	2
8	721418114016	Ashik P A	2	2	2	2	2
9	721418114019	Bharath S	1	1	2	2	2
10	721418114020	Bhuvaneshwaran S	2	2	2	2	2
11	721418114033	Mithun K	1	1	1	2	2
12	721418114034	Mohamed jamshy A	2	2	2	2	2
13	721418114047	Sharon babu	1	2	2	1	2
14	721418114051	Sri narayanamoorthy	2	1	1	2	1
15	721418114057	Tiljojohnson	2	1	2	1	2
16	721418114062	Vishnu das E S	1	2	1	2	1
17	721418114701	Abhisankar PR	2	1	2	1	2
18	721418114702	Krishnaprasad E	1	2	1	2	1
19	721418114703	Manimaran T	2	1	2	1	2
20	721418114704	Mohammed Azhar	1	2	1	2	1
21	721418114706	Sudharsan G A	2	2	2	1	2

PRE ANALYSIS CHART FOR COURSE OUTCOMES

Course Outcomes	Excellent	Good	Moderate	Fair	Poor
CO1: To perform an engineering career with best of behavioral, societal, legal needs of the work environment.	0%	0%	45%	55%	0%
CO2: To apply legal guidelines and norms in performing duties so as to be a respectable engineer of life	0%	0%	73%	27%	0%
CO3: To create the work culture based on the societal environment and spiritual requirements of subordinates.	0%	0%	73%	27%	0%
CO4: The student will be aware of responsibility of an engineer for safety and risk benefits analysis and also students will be aware of professional rights and responsibility of an engineer.	0%	0%	64%	36%	0%
CO5: The students will acquire knowledge about various roles of engineers in variety of global issues and able to apply ethical principles to resolve situations that arise in their professional lives.	0%	0%	100%	0%	0%
Overall Pre Analysis of Course outcomes	0%	0%	71%	29%	0%



S. J. 9/13/22

[Handwritten signature]

M.S.L.

NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

T. M. Palayam, Coimbatore-641 105

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

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NBA Accredited Department: AERONAUTICAL, CSE, MECHANICAL



Department of Science and Humanities

COURSE PLAN

Course Code & Title	GE-8076 Professional Ethics in Engineering					L P T C 3 0 0 3	
Class	I Year B.E. Mech	Semester	VIII	Regulation	R 2017	Academic Year	2021-22
Faculty	S.Jenisha		E-Mail ID		nietjenisha@nehrucolleges.com		
Course Pre-requisite	HS6151 - Technical English – I HS6251 - Technical English – II GE6351 - Environmental Science and Engineering						
Course Objectives	<ul style="list-style-type: none"> To be an Engineer to understand the basic behavioral ,societal, legal needs of the work environment To execute working plans with an awareness on Engineering Ethics and Human Values. To create an environment in work place which respects the Moral, Social Values, Loyalty and also to appreciate the rights of others. 						
Course Outcomes	CO1 To perform an engineering career with best of behavioral, societal,legal needs of the work environment. CO2 To apply legal guidelines and norms in performing duties so as to be a respectable engineer of life CO3 To create the work culture based on the societal environment and spiritual requirements of subordinates. CO4 The student will be aware of responsibility of an engineer for safety and risk benefits analysis and also students will be aware of professional rights and responsibility of an engineer. CO5 The students will acquire knowledge about various roles of engineers in variety of global issues and able to apply ethical principles to resolve situations that arise in their professional lives.						
Program Outcomes	<p>PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences</p> <p>PO3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations</p> <p>PO4 Conduct investigations of complex problems: The problems that cannot be solved by straightforward application of knowledge, theories and techniques applicable to the engineering discipline that may not have a unique solution can be solved in many ways and lead to multiple possible solutions that require consideration of appropriate constraints/requirements which need to be defined (modeled) within appropriate mathematical framework</p> <p>PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the</p>						

<p>consequent responsibilities relevant to the professional engineering practice</p> <p>PO7 Environment and Sustainability: Understand the impact of the professional engineering solution in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.</p> <p>PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice</p> <p>PO10 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings</p> <p>PO11 Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments</p>	<p>PSO1: Identify, Formulate and Solve engineering problems in core streams of Mechanical Engineering i.e., design, thermal, manufacturing and industrial engineering</p> <p>PSO2: Apply modern tools to interpret data, design and develop solutions to complex Mechanical Engineering issues employing ethical principles and professional engineering practices.</p> <p>PSO3: Function as an engineering solution provider or entrepreneur, who is able to manage, innovate, communicate, train and lead a team for continuous improvement.</p>
<p>Program Specific Outcomes</p>	<p>PEO1: To excel in career applying knowledge in mathematics, science and engineering fundamentals essential to create, solve and analyze Mechanical Engineering related problems</p> <p>PEO2: To design, analyze and implement cost-effective solutions to engineering problems encountered in the field that are beneficial to the society</p> <p>PEO3: To establish careers in industry and entrepreneurship by exhibiting professionalism that meets the needs of national and multinational companies with adequate technical learning and communication skills</p>
<p>Programme Educational Objectives</p>	<p>TEXT BOOKS:</p> <ol style="list-style-type: none"> 1. Mike W. Martin and Roland Schinzinger, "Ethics in Engineering", Tata McGraw Hill, New Delhi, 2003. 2. Govindarajan M, Natarajan S, Senthil Kumar V. S, "Engineering Ethics", Prentice Hall of India, New Delhi, 2004.
<p>References</p>	<p>Reference Books:</p> <ol style="list-style-type: none"> 1. Charles B. Fleddermann, "Engineering Ethics", Pearson Prentice Hall, New Jersey, 2004. 2. Charles E. Harris, Michael S. Pritchard and Michael J. Rabins, "Engineering Ethics – Concepts and Cases", Cengage Learning, 2009 3. John R Boatright, "Ethics and the Conduct of Business", Pearson Education, New Delhi, 2003 4. Edmund G Seebauer and Robert L Barry, "Fundamentals of Ethics for Scientists and Engineers", Oxford University Press, Oxford, 2001 5. Laura P. Hartman and Joe Desjardins, "Business Ethics: Decision Making for Personal Integrity and Social Responsibility" Mc Graw Hill education, India Pvt. Ltd., New Delhi 2013. 6. World Community Service Centre, " Value Education", Vethathiri publications, Erode, 2011

E-Learning Resources	1. www.onlineethics.org 2. www.nspe.org 3. www.globalethics.org 4. www.nptel.ac.in/courses/Webcourse-contents/IIT-Delhi/.../index.htm 5. www.rejinpaul.com
Mode of Evaluation	Internal Mark (40%), End Semester Examination (60%)

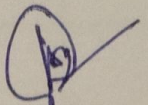
COURSE PLAN
CY8151-ENGINEERING CHEMISTRY

Lecture No.	Topic	Reference Book No. & Section	Scheduled on	Delivered on
Unit – I HUMAN VALUES				
1	Morals, values and Ethics ,Integrity	T1	7-3-22	7/3/22
2	Work ethic ,Service learning	T1	7-3-22	7/3/22
3	Civic virtue ,Respect for others	R2,T1	8-3-22	8/3/22
4	Living peacefully	T2	8-3-22	8/3/22
5	Caring ,Sharing	T1	9-3-22	9/3/22
6	Honesty , Courage	T1	9-3-22	9/3/22
7	Valuing time	T2	14-3-22	14/3/22
8	Cooperation, Commitment	T1	14-3-22	14/3/22
9	Empathy ,Self confidence	R2	15-3-22	15/3/22
10	Character ,Spirituality Introduction to Yoga and meditation for professional excellence and stress management	T1 R1,T1	15-3-22	15/3/22
UNIT-2 ENGINEERING ETHICS				
11	Senses of „Engineering Ethics ,Variety of moral issues	T1	16-3-22	16/3/22
12	Types of inquiry	R2	16-3-22	16/3/22
13	Moral dilemmas , Moral Autonomy	T1	21-3-22	21/3/22
14	Kohlberg’s theory	R1,T1	21-3-22	21/3/22
15	Gilligan’s theory	T1	22-3-22	29/3/22
16	Consensus and Controversy	T1	22-3-22	29/3/22
17	Models of professional roles ,Theories about right action	R2,T1	23-3-22	30/3/22
18	Self-interest , Customs	T2	23-3-22	30/3/22
19	Religion ,Uses of Ethical Theories	T1		
UNIT-3 ENGINEERING AS SOCIAL EXPERIMENTATION				
20	Engineering as Experimentation	T1	28-3-22	4/4/22
21	Engineering as Experimentation	R2	28-3-22	4/4/22
22	Engineering as Experimentation	R2	29-3-22	5/4/22
23	Engineering as Experimentation	T1	30-3-22	5/4/22
24	Engineers as responsible Experimenters	T1	30-3-22	5/4/22
24	Engineers as responsible Experimenters	R1,T1	4-4-22	18/4/22
25	Codes of Ethics	T2	5-4-22	18/4/22

26	Codes of Ethics	T1	18-4-22	19/4/22
27	A Balanced Outlook on Law.	T1	19-4-22	19/4/22
28	A Balanced Outlook on Law.	T2	20-4-22	20/4/22
UNIT-4 SAFETY, RESPONSIBILITIES AND RIGHTS				
29	Safety and Risk, Assessment of Safety and Risk	T1	25-4-22	20/4/22
30	Risk Benefit Analysis and Reducing Risk	R2	26-4-22	25/4/22
31	Respect for Authority	T1	27-4-22	25/4/22
32	Collective Bargaining ,Confidentiality	R1,T1	4-5-22	26/4/22
33	Conflicts of Interest	T1	9-5-22	27/4/22
34	Occupational Crime	T1	10-5-22	27/4/22
35	Professional Rights	R2,T1	11-5-22	4/5/22
36	Employee Rights	T2	16-5-22	9/5/22
37	Intellectual Property Rights (IPR) - Discrimination	T1	17-5-22	9/5/22
UNIT-5 GLOBAL ISSUES				
38	Multinational Corporations ,Environmental Ethics	T1	23-5-22	10/5/22
39	Computer Ethics , Weapons Development	R2	25-5-22	11/5/22
40	Engineers as Managers	T1	30-5-22	16/5/22
41	Consulting Engineers	R1,T1	31-5-22	17/5/22
42	Engineers as Expert Witnesses and Advisors	T2	1-6-22	23/5/22
43	Moral Leadership	T1	6-6-22	30/5/22.
44	Code of Conduct	T1	7-6-22	1/6/22
45	Corporate Social Responsibility	R2,T1	8-6-22, 13-6-22	6/6/22. 8/6/22.

Topics beyond the Curriculum / Guest Lecture(s) / Industrial Visit proposed (if any)		Period	
Topics beyond the Curriculum	To solve the social and personal issues	2	
Internship			
Total Hours required for the Course		45+2	

S. H
Faculty 16/6/22


IQAC

MSC
HOD

MAPPINGS

COs - Pos Mapping

CY 8151	Cognitive Level	Program Outcomes (3 : High; 2 : Medium; 1 : Low)												
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
DIRECT METHOD														
CO1 To perform an engineering career with best of behavioral, societal, legal needs of the work environment.	Apply	2		2				3	3	3		3	3	2
CO2 To apply legal guidelines and norms in performing duties so as to be a respectable engineer of life	Apply & Analyze	3		3				3	3	3		3	3	2
CO3 To create the work culture based on the societal environment and spiritual requirements of subordinates.	Create	3		3				3	3	3		3	3	3
CO4 The student will be aware of responsibility of an engineer for safety and risk benefits analysis and also students will be aware of professional rights and responsibility of an engineer.	Aware	3		3				3	3	3		3	3	3

CO5 The students will acquire knowledge about various roles of engineers in variety of global issues and able to apply ethical principles to resolve situations that arise in their professional lives.	Acquire Knowledge	2		2			3	3	3		3	2 2
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INDIRECT METHOD (Based on Classroom Activity / Event)

1	Class Room Quiz contest	Apply Analyze	2		2			3	3	2		3	2 3
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S.H.
Faculty
16/22

HOD

(S)
IQAC

MSL
HOD

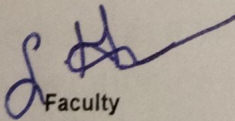
HOD

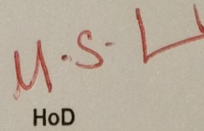


NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY
T.M.Palayam,Coimbatore- 641 105
(Approved by AICTE New Delhi & Affiliated to Anna university, chennai)
ISO 9001:2015 and ISO 14001:2015 Certified Institution
Accredited by NAAC,Recognised by UGC under section 2(f) and 12(b)
NBA Accredited UG Courses:AERO,CSE &MECH
Department of Mechanical Engineering
Academic year :2021-22(VIII EVEN SEMESTER)
BATCH (2018-2022)
GE8076 Professional Ethics in Engineering



S.No	Reg.No	Name
1	721418114001	Abijith R
2	721418114002	Abin B
3	721418114005	Ajaikumar S
4	721418114007	AkhilChandran
5	721418114008	Akhilan K
6	721418114009	Akshay K R
7	721418114015	Aryan P
8	721418114016	Ashik P A
9	721418114019	Bharath S
10	721418114020	Bhuvaneshwaran S
11	721418114033	Mithun K
12	721418114034	Mohamed jamsy A
13	721418114047	Sharon babu
14	721418114051	Sri narayanamoorthy
15	721418114057	Tiljojohnson
16	721418114062	Vishnu das E S
17	721418114701	Abhisankar PR
18	721418114702	Krishnaprasad E
19	721418114703	Manimaran T
20	721418114704	Mohammed Azhar
21	721418114706	Sudharsan G A


Faculty


HoD

NEHRU INSTITUTE OF ENGINEERING & TECHNOLOGY

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"Nehru Gardens" Thirumalayampalayam, Coimbatore - 641 105

Department of Mechanical Engineering

GE 8076 Professional Ethics in Engineering

VIII SEMESTER

UNIT -I

PART A

1. What are human values?
2. What are ethical values?
3. Distinguish values from ethics and culture.
4. What is integrity?
5. Define work ethics.
6. What is service learning?
7. Mention some civic virtues.
8. Write short notes on caring and sharing.
9. What is honesty?
10. What is courage as a value?
11. Define cooperation.
12. Define empathy.
13. Define spirituality.
14. Define integrity.
15. Define compromise.
16. List out any two aspects of honesty.
17. Define self respect and self esteem.
18. What is commitment?
19. What is meant by self confidence?
20. What is stress management?

PART B

1. Explain some important human values.
2. Write a detailed note on work ethics.
3. Explain integrity and honesty in ethics.
4. Explain the importance of self confidence in ethics.
5. List important time wasters. How can one manage time properly?
6. Explain caring, sharing and living peacefully.
7. Explain commitment and empathy.
8. Explain civic virtue and respect for others and also explain importance of cooperation.
9. Explain character and spirituality and their importance in ethics.
10. Explain the role of Yoga and meditation in the field of professional excellence and stress management.

UNIT 2

PART-A

1. What are the senses of Engineering Ethics?
2. Define Moral Dilemma.
3. What is Moral Autonomy?
4. State Kohlbergs theory.
5. State Gilligans theory.
6. What is meant by consensus?
7. State the implications of Controversy.
8. Mention few steps in confronting Moral Dilemma.
9. Mention the models of professional roles.
10. State the theories about right action.
11. State the significance of Self Interest.
12. Narrate the significance of Customs.
13. State the significance of religion.
14. Mention various ethical theories available.
15. State the problem of vagueness.
16. Specify the problem of conflicting reasons.
17. State the principle of Utilitarianism.
18. State the various types of Inquiries available?
19. What is meant by ethical egoism?
20. What is meant by customs relativism?

PART-B

1. (a). Explain the scope of Engineering Ethics . Highlight the importance of Ethics.
(b). Explain in details about the senses of Engineering Ethics.
2. (a). Discuss in detail the various types of Moral issues
(b). Specify the various types of Ethical inquiries available.
3. Discuss in detail about the concept of
(a). Moral Dilemmas.
(b). Moral Autonomy.
4. Discuss in details about
(a) Gilligans Theory
(b) Kohlbergs Theory
5. Explain about
(a) Consensus and Controversy
(b) Heinzs Theory
6. Explain in detail about Professional and Professionalism.
7. Explain in details the professionalism ideals and virtues.
8. Discuss in details the various theories about right action.
9. Explain in detail the traits of Self Interest, Customs and Religions.
10. Explain in details the various ethical theories and their uses.

UNIT 3

PART-A

1. What are the conditions required to define a valid consent?
2. What are the two main elements which are included to understand informed consent?
3. What are the general features of morally responsible engineers?
4. What is the purpose of various types of standards?
5. Define Code?
6. Enumerate the roles of codes?
7. Give the limitations of codes?
8. What are the problems with the law in engineering?
9. What is the need to view engineering projects as experiments?
10. Differentiate scientific experiments and engineering projects?
11. What are the uncertainties occur in the model designs?
12. Comment on the importance of learning from the past, using Titanic disaster, as an example?
13. Give any two prominent features of contemporary engineering practice that differentiate casual influence and moral accountability in engineering?
14. Define Ethical Conventionalism?
15. Mention some universally accepted ethical principles.
16. What is meant by Engineering Experimentation.
17. State the importance of Ethical codes.
18. What do you understand by balanced outlook on law.
19. What are the two elements of two informed consent?
20. In what ways engineering experiment differs from standard experiments.

PART-B

1. How can engineer become a responsible experimenter? Highlight the code of ethics for Engineers.
2. What is the important code of ethics? Give brief account on '4' canons of codes of ethics quoted by international standard or association.
3. Discuss on the roles played by the codes of ethics set by professional societies.
4. Compare and contrast engineering experiments with standard experiments.
5. Explain with help of examples of that engineers would learn not only from their earlier design and operating results, but also from those of those of engineers of other engineers.
6. Explain in detail about engineers as responsible experimenters.
7. Explain detail about balanced outlook on law.
8. Explain detail about industrial standards.
9. Explain detail about engineering as experimentation.
10. State the various problems of law in Engineering.

UNIT-4

PART-A

1. State the significance of Safety.
2. Define Risk
3. What is meant by disaster?
4. Draw the assessment curve on safety and risk.
5. State the significance of Scenario Analysis
6. What is FMEA?
7. What is FTA?
8. State the significance of Event Tree Analysis (ETA)
9. Differentiate between Risk analysis and Risk benefit analysis
10. Mention few steps to reduce risks.
11. What is meant by Liability?
12. What is meant by Safe Exit?
13. What is causal responsibility?
14. What is intellectual property right?
15. What is collective bargaining?
16. What do you mean by conflict of interest. Give example.
17. Distinguish between authority and power.
18. Specify few employees' rights.
19. What are disadvantages of collective bargaining?
20. What is meant by occupational crime?

PART-B

1. (a). What are the main elements of IPR. Give examples of Discrimination.
(b). State the necessity of Risk Benefit Analysis.
2. (a). Write short notes on Occupational crime.
(b). Distinguish between employee rights and professional rights.
3. Discuss the significance of Intellectual Property rights. Also explain the legislation covering IPR in India.
4. Define Risk Benefit analysis. Why it is conducted?. What is the limitation of RBA?
5. (a). Define the term Risk and Safety. How we an engineer assess the safety?
(b). What is the factors that affect risk acceptability? What is the use of knowledge of risk acceptance to engineer?
6. Discuss the features, guideline and procedures of whistle blowing
7. Discuss Event Tree analysis with some practical example of risk analysis.
8. Explain the concept of liability with suitable example.
9. Explain the concept of Confidentiality in detail.
10. What are the types of conflicts of interests and the different ways to avoid conflicts of interests?

UNIT-5

PART-A

1. State few advantages of Multinational Corporations.
2. Mention few disadvantages of MNCs.
3. What is meant by environmental ethics?
4. What is meant by computer ethics?
5. What is corporate responsibility?
6. What is social responsibility?
7. Define Code of conduct
8. What is moral leadership?
9. Specify few global issues.
10. What is meant by acid rain?
11. What is meant by Globalization?
12. Differentiate Privacy and Anonymity.
13. What is meant by computer crime?
14. What is meant by Ethical climate?
15. What is meant by Professional obligations?
16. What is meant by Value guided advocates?
17. What is meant by Value-Neutral Analysts?
18. Define Conflict resolution
19. What is Global cyber business?
20. What is meant by water balances?

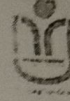
PART-B

1. Explain in detail the various advantages and disadvantages of MNCs.
2. Discuss in details about Environmental Ethics.
3. Explain and enumerate the significance of the concept of Computer Ethics.
4. Describe in details about the Global issue of Weapons development.
5. Justify with suitable examples Engineers as Managers.
6. Justify Engineers as Expert witness and Advisors with suitable examples.
7. Explain in details about Moral Leadership.
8. Discuss in details about Code of Conduct.
9. Describe in details about Corporate Responsibility.
10. Explain in details about the Management of conflicts and the Principles of conflict resolution.



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Class Time Table – Academic year : 2021-22 (Even Semester)

Department : Mechanical Engineering

Degree and Branch : B.E., Mechanical Engineering

Class Advisor(s) : Mr.R.Vinothkumar & Mr.Franklin Arokia Raj Class Committee Chairman :

Dr.V.M.M.Thilak

Class / Sem : IV BE MECH, VIII

Class Room : 206

WEF : 7-3-2022

Period DAY	1 9:10 AM - 9:55 AM	2 9:55 AM- 10:40 AM	Tea Break (10:40:10:55)	3 10:55 AM- 11:40 AM	4 11:40 AM- 12:25 PM	5 12.25PM-1.10 PM	Lunch Break (1:10- 01:55)	6 1:55 PM - 2:45 PM	7 2:45 PM - 3:35 PM	8 3:35 PM - 4:25 PM	
Monday	MG8591	MG8091/ GE8076/ IE8693		MG8591	Library/Mentor	GE8076 MG8091/ IE8693		ME8811			
Tuesday	GE8076/ MG8091/ IE8693	MG8591		Library/Mentor	MG8591	GE8076 MG8091/ IE8693		ME8811			
Wednesday	GE8076/ MG8091/ IE8693	MG8591		MG8591	GE8076 MG8091/ IE8693	Library/Mentor		ME8811			
Thursday	ME8811			ME8811				ME8811			
Friday	ME8811			ME8811				ME8811			

Course Code	Course Title	L	T	P	C	Name of the Faculty	Department
MG8591	Principles of Management	3	0	0	3	Dr. Y. Sameena	S&H
IE8693	Production Planning and Control	3	0	0	3	Dr.K.Anganan	Mech
MG8091	Entrepreneurship Development	3	0	0	3	Mr.C.P.Praveen	Mech
GE8076	Professional Ethics in Engineering	3	0	0	3	Mrs.S.Jenisha.	S&H
ME8811	Project Work	0	0	20	10	Dr. M.Santhosh ,Dr. S.Jeevanantham & MR.R.Vinothkumar	Mech

JN 7.3.22
TT Coordinator

M.S. 7/3/22
HoD

R. Ar 7/3/22
IQAC

P.M. 7/3/22
Principal

08/03/2022

R. B. 7/3/22

OBJECTIVES:

- To enable the students to create an awareness on Engineering Ethics and Human Values, to instill Moral and Social Values and Loyalty and to appreciate the rights of others.

UNIT I HUMAN VALUES

10

Morals, values and Ethics – Integrity – Work ethic – Service learning – Civic virtue – Respect for others – Living peacefully – Caring – Sharing – Honesty – Courage – Valuing time – Cooperation – Commitment – Empathy – Self confidence – Character – Spirituality – Introduction to Yoga and meditation for professional excellence and stress management.

UNIT II ENGINEERING ETHICS

9

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

UNIT III ENGINEERING AS SOCIAL EXPERIMENTATION

9

Engineering as Experimentation – Engineers as responsible Experimenters – Codes of Ethics – A Balanced Outlook on Law.

UNIT IV SAFETY, RESPONSIBILITIES AND RIGHTS

9

Safety and Risk – Assessment of Safety and Risk – Risk Benefit Analysis and Reducing Risk – Respect for Authority – Collective Bargaining – Confidentiality – Conflicts of Interest – Occupational Crime – Professional Rights – Employee Rights – Intellectual Property Rights (IPR) – Discrimination.

UNIT V GLOBAL ISSUES

Multinational Corporations – Environmental Ethics – Computer Ethics – Weapons Development – Engineers as Managers – Consulting Engineers – Engineers as Expert Witnesses and Advisors – Moral Leadership – Code of Conduct – Corporate Social Responsibility.

TOTAL: 45 PERIODS

OUTCOMES:

- Upon completion of the course, the student should be able to apply ethics in society, discuss the ethical issues related to engineering and realize the responsibilities and rights in the society.

TEXT BOOKS:

1. Mike W. Martin and Roland Schinzinger, Ethics in Engineering, Tata McGraw Hill, New Delhi, 2003.
2. Govindarajan M, Natarajan S, Senthil Kumar V. S, Engineering Ethics, Prentice Hall of India, New Delhi, 2004.

REFERENCES:

1. Charles B. Fleddermann, —Engineering Ethics, Pearson Prentice Hall, New Jersey, 2004.
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3. John R Boatright, —Ethics and the Conduct of Business, Pearson Education, New Delhi, 2003
4. Edmund G Seebauer and Robert L Barry, —Fundamentals of Ethics for Scientists and Engineers, Oxford University Press, Oxford, 2001.
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