



MEETING MINUTES

11/9/2014

Meeting Name:	VALUES AND ETHICS CLUB - INSTATEMENT AND PLANNING		
Date of Meeting: (MM/DD/YYYY)	11/9/2014	Time:	10.30 am to 11.30 am
Minutes Prepared By:	Mr Starlin Deva Prince	Location:	Principal's Office

1. Meeting Objective

To frame the values and ethics club for creating strong ethical values in students

2. Attendance at Meeting

Name	Department	E-mail	Phone
List Enclosed			

3. AGENDA ITEM	4. DISCUSSION/OUTCOMES/DECISIONS	5. ACTIONS TO BE TAKEN / COMMUNICATIONS REQUIRED	6. DATE & TIME OF COMPLETION
To select the members	<ul style="list-style-type: none">Discussions were made on the need for values and ethics clubDifferent strategies were discussed for the development of ethical values in students.The heads were asked to suggest the members who would perform in this aspect	<p>The members from each department suggested were approved as members for the centre for innovation</p> <ul style="list-style-type: none">EEE- Mr. K. Ezhil VigneshECE- Mrs. Ashley BebyMECHANICAL - Mr. Amala Mithin Minther SignS&H- Mrs. A.L. Merlin SheelaCSE- Mrs. G. Santhiya	immediate
To frame the responsibilities of members	<ul style="list-style-type: none">Promote ethical leadership throughout the firm.Work to safeguard the interests and welfare of all sections of the student community.	<ul style="list-style-type: none">Creating the knowledge concerned with the distinction between Right and Wrong, with moral choices, duties and obligations.Acknowledging shared values, normalizing values conflicts, defining professional purpose, understanding the self and preparing responses.	immediate



Meeting Name:	VALUES AND ETHICS CLUB - INSTATEMENT AND PLANNING		
Date of Meeting: (MM/DD/YYYY)	11/9/2014	Time:	10.30 am to 11.30 am
Minutes Prepared By:	Mr Starlin Deva Prince	Location:	Principal's Office
Summary of Review Outputs The responsibilities were framed and action plan was discussed.			
7. Next Meeting (if applicable)			
Date: (MM/DD/YYYY)	-----	Time:	-----
Location:	-----	-----	
Objective:	-----		

Signature:
Meeting Documentor

Date: 11/09/14.....

Signature:
Principal

Date: 11/09/14.....



2. Attendance at Meeting

S.No.	Name	Designation	Department	Signature
1	Mr.Starlin Deva Prince	Asst. Prof	Mech	
2	Mr. K. Ezhil Vignesh	Asst. Prof	EEE	
3	Mrs.Ashley Beby	Asst. Prof	ECE	
5	Mr. Amala Mithin Minther Sign	Asst. Prof	MECH	
6	Mrs.A.L.MerlinSheela	Asst. Prof	S&H	
7	Mrs. G. Santhiya	Asst. Prof	CSE	



STELLA MARY'S COLLEGE OF ENGINEERING
Aruthenganvilai, Kallukatti Junction, Azhikal
Kanyakumari District-629202

Human Values & Professional Ethics

"A person who is offered a quality education will be able to serve the region, the state and the nation through resourceful educational programmes. A quality based education consequently helps in upgrading the individual's growth which in turn endorses the growth of the nation. Stella Mary's College of Engineering proffers Quality Education to create a personal paradigm, devoted to master the life skills required for success".

Objectives of Professional Ethics & Human Values in Engineering:

- ❖ To understand the moral values that ought to guide the Engineering profession.
Resolve the moral issues in the profession.
- ❖ To justify the moral judgment concerning the profession.
- ❖ Intended to develop a set of beliefs, attitudes and habits that engineers should display concerning morality.
- ❖ To create an awareness on Engineering Ethics and Human Values.
- ❖ To inspire Moral and Social Values and Loyalty.
- ❖ To appreciate the rights of others.

Professional Ethics:

Ethics is an activity which concerns with the investigation of moral values in moral issues. As far as an Engineer is concerned he/she should have an ethical as well as a social responsibility to himself, to his subordinates and to his society. The set of standards adopted by professionals is called as Professional ethics. The set of ethical standards that are applicable for an engineering profession is known as engineering ethics. Engineering ethics is about balancing cost, schedule and risk in practical. Engineering ethics helps an Engineer to discover moral principles like obligation, rights and ideals in this field. Formal code, Focus, Precedence, Restriction, Two dimensional (positive & negative) and Role morality are some of the important characters of professional ethics. Few professional models are Engineer as Social Enablers as well as Catalysts, Engineers as Game Players, Engineers as Bureaucratic Servants, Engineers as Guardians, Engineers as Social Servants and Engineers as Saviors.



STELLA MARY'S COLLEGE OF ENGINEERING
Aruthenganvilai, Kallukatti Junction, Azhikal
Kanyakumari District-629202

As per Anna University the following subject : Professional Ethics is included in Curriculum

Department	Year/sem	Course Code	Course Name	No. of Students
MECH	III/5 th sem 2015-16	GE 6075	Professional ethics in engineering	57
MECH	III/5 th sem 2016-17	GE 6075	Professional ethics in engineering	56
MECH	III/5 th sem 2017-18	GE 6075	Professional ethics in engineering	52
MECH	III/5 th sem 2018-19	GE 6075	Professional ethics in engineering	56
ECE	IV/8 th sem 2016-17	GE 6075	Professional ethics in engineering	39
ECE	IV/8 th sem 2017-18	GE 6075	Professional ethics in engineering	14
ECE	IV/8 th sem 2018-19	GE 6075	Professional ethics in engineering	27
EEE	IV/8 th sem 2016-17	GE 6075	Professional ethics in engineering	16
EEE	IV/8 th sem 2017-18	GE 6075	Professional ethics in engineering	11
EEE	IV/8 th sem 2018-19	GE 6075	Professional ethics in engineering	42
IT	IV/8 th sem 2016-17	GE 6075	Professional ethics in engineering	10


Dr. R. Suresh Prem Kumar, M.E., Ph.D
PRINCIPAL
STELLA MARY'S COLLEGE OF ENGINEERING
ARUTHENGANVILAI, AZHICKAL POST-629 202
KANYAKUMARI DISTRICT

SYLLABUS EXTRACTED FROM ANNA UNIVERSITY
REGULATION 2013

ANNA UNIVERSITY, CHENNAI

AFFILIATED INSTITUTIONS

R - 2013

B.E. MECHANICAL ENGINEERING

I – VIII SEMESTERS CURRICULUM AND SYLLABUS

SEMESTER I

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	HS6151	Technical English – I	3	1	0	4
2.	MA6151	Mathematics – I	3	1	0	4
3.	PH6151	Engineering Physics – I	3	0	0	3
4.	CY6151	Engineering Chemistry – I	3	0	0	3
5.	GE6151	Computer Programming	3	0	0	3
6.	GE6152	Engineering Graphics	2	0	3	4
PRACTICALS						
7.	GE6161	Computer Practices Laboratory	0	0	3	2
8.	GE6162	Engineering Practices Laboratory	0	0	3	2
9.	GE6163	Physics and Chemistry Laboratory - I	0	0	2	1
TOTAL			17	2	11	26

SEMESTER II

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	HS6251	Technical English – II	3	1	0	4
2.	MA6251	Mathematics – II	3	1	0	4
3.	PH6251	Engineering Physics – II	3	0	0	3
4.	CY6251	Engineering Chemistry – II	3	0	0	3
5.	GE6252	Basic Electrical and Electronics Engineering	4	0	0	4
6.	GE6253	Engineering Mechanics	3	1	0	4
PRACTICALS						
7.	GE6261	Computer Aided Drafting and Modeling Laboratory	0	1	2	2
8.	GE6262	Physics and Chemistry Laboratory - II	0	0	2	1
TOTAL			19	4	4	25

SEMESTER V

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	ME6501	Computer Aided Design	3	0	0	3
2.	ME6502	Heat and Mass Transfer	3	0	0	3
3.	ME6503	Design of Machine Elements	3	0	0	3
4.	ME6504	Metrology and Measurements	3	0	0	3
5.	ME6505	Dynamics of Machines	3	0	0	3
6.	GE6075	Professional Ethics in Engineering	3	0	0	3
PRACTICAL						
7.	ME6511	Dynamics Laboratory	0	0	3	2
8.	ME6512	Thermal Engineering Laboratory-II	0	0	3	2
9.	ME6513	Metrology and Measurements Laboratory	0	0	3	2
TOTAL			18	0	9	24

SEMESTER VI

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	ME6601	Design of Transmission Systems	3	0	0	3
2.	MG6851	Principles of Management	3	0	0	3
3.	ME6602	Automobile Engineering	3	0	0	3
4.	ME6603	Finite Element Analysis	3	0	0	3
5.	ME6604	Gas Dynamics and Jet Propulsion	3	0	0	3
6.		Elective - I	3	0	0	3
PRACTICAL						
7.	ME6611	C.A.D. / C.A.M. Laboratory	0	0	3	2
8.	ME6612	Design and Fabrication Project	0	0	4	2
9.	GE6563	Communication Skills - Laboratory Based	0	0	4	2
TOTAL			18	0	11	24

SEMESTER VII

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	ME6701	Power Plant Engineering	3	0	0	3
2.	ME6702	Mechatronics	3	0	0	3
3.	ME6703	Computer Integrated Manufacturing Systems	3	0	0	3
4.	GE6757	Total Quality Management	3	0	0	3
5.		Elective - II	3	0	0	3
6.		Elective - III	3	0	0	3
PRACTICAL						
7.	ME6711	Simulation and Analysis Laboratory	0	0	3	2
8.	ME6712	Mechatronics Laboratory	0	0	3	2
9.	ME6713	Comprehension	0	0	2	1
TOTAL			18	0	8	23

UNIT IV FORCED VIBRATION

Response of one degree freedom systems to periodic forcing – Harmonic disturbances – Disturbance caused by unbalance – Support motion – transmissibility – Vibration isolation vibration measurement. 9

UNIT V MECHANISM FOR CONTROL

Governors – Types – Centrifugal governors – Gravity controlled and spring controlled centrifugal governors – Characteristics – Effect of friction – Controlling force curves. Gyroscopes – Gyroscopic forces and torques – Gyroscopic stabilization – Gyroscopic effects in Automobiles, ships and airplanes. 9

OUTCOMES:

TOTAL : 45 PERIODS

- Upon completion of this course, the Students can able to predict the force analysis in mechanical system and related vibration issues and can able to solve the problem

TEXT BOOK:

1. Uicker, J.J., Pennock G.R and Shigley, J.E., "Theory of Machines and Mechanisms" ,3rd Edition, Oxford University Press, 2009.
2. Rattan, S.S, "Theory of Machines", 3rd Edition, Tata McGraw-Hill, 2009

REFERENCES:

1. Thomas Bevan, "Theory of Machines", 3rd Edition, CBS Publishers and Distributors, 2005.
2. Cleghorn. W. L, "Mechanisms of Machines", Oxford University Press, 2005
3. Benson H. Tongue, "Principles of Vibrations", Oxford University Press, 2nd Edition, 2007
4. Robert L. Norton, "Kinematics and Dynamics of Machinery", Tata McGraw-Hill, 2009.
5. Allen S. Hall Jr., "Kinematics and Linkage Design", Prentice Hall, 1961
6. Ghosh. A and Mallick, A.K., "Theory of Mechanisms and Machines", Affiliated East-West Pvt. Ltd., New Delhi, 1988.
7. Rao.J.S. and Duggipati.R.V. "Mechanisms and Machine Theory", Wiley-Eastern Ltd., New Delhi, 1992.
8. John Hannah and Stephens R.C., "Mechanics of Machines", Viva Low-Prices Student Edition, 1999.
9. Grover. G.T., "Mechanical Vibrations", Nem Chand and Bros., 1996
10. William T. Thomson, Marie Dillon Dahleh, Chandramouli Padmanabhan, "Theory of Vibration with Application", 5th edition, Pearson Education, 2011
11. V.Ramamurthi, "Mechanics of Machines", Narosa Publishing House, 2002.
12. Khurmi, R.S., "Theory of Machines", 14th Edition, S Chand Publications, 2005.

GE6075

PROFESSIONAL ETHICS IN ENGINEERING

L T P C
3 0 0 3

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

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 9

UNIT III ENGINEERING AS SOCIAL EXPERIMENTATION

Engineering as Experimentation – Engineers as responsible Experimenters – Codes of Ethics – A Balanced Outlook on Law. 9

UNIT IV SAFETY, RESPONSIBILITIES AND RIGHTS

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 9

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 8

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

TEXTBOOKS:

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.
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

Web sources:

1. www.onlineethics.org
2. www.nspe.org
3. www.globoethics.org
4. www.ethics.org


STELLA MARIS COLLEGE OF ENGINEERING
ARUTHENGANVILLE
AZHICKAL POST - 625 004
KANYAKUMARI DISTRICT

As the part of human values college is conducting yoga and medication class for the students



Yoga session by Mr P. R. Sundaresan MSc Electronics , Msc yoga , M.phil Physical education



Students Participation in yoga program