

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE 363, Arcot Road, Kodambakkam, Chennai – 24 Approved by AICTE & Affiliated to Anna University email Id: <u>principal@msec.edu.in</u> Website : <u>www.msec.edu.in</u>

Criterion VII – Institutional Values and Best Practices

7.1.9 Sensitization of students and employees of

the Institution to the constitutional obligations: values, rights,

duties and responsibilities of citizens

PRINCIPAL MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE (Managed by IIET Society) CHENNAI-600 024



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7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

MSEC undertakes different initiatives to equip students with the knowledge and skill that are necessary for sustaining the balance between a livelihood and life by ensuring an effective, supportive, safe and conducive learning environment.

These elements are inculcated in the value system of the college through the policies reflecting the core values Code of conduct is implemented for students and staff and everyone has to abide by the conduct rules. The affiliating University curriculum includes a mandatory course on Professional ethics and human values" to inculcate values among the students.

The following practices ensure the dissemination of constitutional obligations :

- A)Professional Ethics and Human values in course curriculum
- B) Pediatric care for children during covid crisis

C) Healthy Living



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7.1.9 Sensitization of students and employees of

the Institution to the constitutional obligations: values, rights,

duties and responsibilities of citizens

(a)PROFESSIONAL ETHICS AND HUMAN VALUES COURSE IN CURRICULUM

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PRINCIPAL MEENAKSHI SUNDARABAJA* ENGINEERING COLLESE (Managed by HET Society) CHENNAI-600 024

ANNA UNIVERSITY, CHENNAI AFFILIATED INSTITUTIONS B.TECH INFORMATION TECHNOLOGY REGULATIONS – 2017 CHOICE BASED CREDIT SYSTEM

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- To ensure graduates will be proficient in utilizing the fundamental knowledge of basic sciences, mathematics and Information Technology for the applications relevant to various streams of Engineering and Technology.
- To enrich graduates with the core competencies necessary for applying knowledge of computers and telecommunications equipment to store, retrieve, transmit, manipulate and analyze data in the context of business enterprise.
- To enable graduates to think logically, pursue lifelong learning and will have the capacity to understand technical issues related to computing systems and to design optimal solutions.
- To enable graduates to develop hardware and software systems by understanding the importance of social, business and environmental needs in the human context.
- To enable graduates to gain employment in organizations and establish themselves as professionals by applying their technical skills to solve real world problems and meet the diversified needs of industry, academia and research.

PROGRAM OUTCOMES (POs)

ENGINEERING GRADUATES WILL BE ABLE TO:

- 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

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OUTCOMES:

On Successful completion of the course ,Students will be able to

- Gather, derive, define and validate real requirements for the specified network.
- Understand different types of requirements from the user, application, device and network component
- Develop traceability between requirements, architecture decisions, and design decisions
- Implement how and where addressing and routing, security, network management, and performance are required in the network.
- Use SNMPv1, v2 and v3 protocols.

TEXT BOOKS:

- 1. James.D.McCabe, "Practical Computer Network Analysis and Design", 1st Edition, Morgan Kaufaman, 1997.
- Mani Subramanian, "Network Management Principles & Practice" 2nd Edition Prentice Hall, 2012.

REFERENCES:

- Network Analysis, Architecture, and Design By James D. McCabe, Morgan Kaufmann, Third Edition, 2007.ISBN-13: 978-0123704801
- Computer Networks: A Systems Approach by Larry L. Peterson, Bruce S. Davie -2007, Elsevier Inc.
- Top-down Network Design: [a Systems Analysis Approach to Enterprise Network Design] By Priscilla Oppenheimer, Cisco Press, 3rd Edition, ISBN-13: 978-1-58720- 283-4 ISBN-10: 1-58720-283-2
- J.Radz, "Fundamentals of Computer Network Analysis and Engineering: Basic Approaches for Solving Problems in the Networked Computing Environment", Universe, 2005.
- 5. Mark Newman, "Networks: An Introduction", Kindle Edition, 2010.
- 6. Laura Chappel and Gerald Combs ,"Wireshark 101: Essential Skills for Network Analysis", Kindle Edition, 2013.
- 7. William Stallings., "SNMP, SNMP2, SNMP3 and RMON1 and 2", Pearson Education, 2004.
- 8. Daw Sudira, "Network Management", Sonali Publications, 2004.

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PROFESSIONAL ETHICS IN ENGINEERING

LTPC 3003

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OBJECTIVE:

 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

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.

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UNIT III ENGINEERING AS SOCIAL EXPERIMENTATION

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

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.

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:

- Mike W. Martin and Roland Schinzinger, "Ethics in Engineering", Tata McGraw Hill, New Delhi, 2003.
- 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.
- 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
- Edmund G Seebauer and Robert L Barry, "Fundamentals of Ethics for Scientists and Engineers", Oxford University Press, Oxford, 2001.
- 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
- www.globalethics.org
- 4. www.ethics.org

CS8080

INFORMATION RETRIEVAL TECHNIQUES

LTPC 3003

OBJECTIVES:

- · To understand the basics of Information Retrieval.
- To understand machine learning techniques for text classification and clustering.
- · To understand various search engine system operations.
- · To learn different techniques of recommender system.

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PROFESSIONAL ETHICS IN ENGINEERING

OBJECTIVES:

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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.

HUMAN VALUES UNITI

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.

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UNIT III ENGINEERING AS SOCIAL EXPERIMENTATION

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

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

GLOBAL ISSUES UNIT V

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TOTAL: 45 PERIODS

OUTCOMES:

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- 2. Charles E. Harris, Michael S. Pritchard and Michael J. Rabins, "Engineering Ethics Concepts and Cases", Cengage Learning, 2009
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- 6. World Community Service Centre, ' Value Education', Vethathiri publications, Erode, 2011

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The Management, Staff & Students of MEENAKSHI COLLEGE FOR WOMEN (AUTONOMOUS) MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE MEENAKSHI SUNDARARAJAN SCHOOL OF MANAGEMENT

Kodambakkam, Chennai 600 024

Invite you for an address on

"PEDIATRIC CARE FOR CHILDREN DURING COVID CRISIS"

by

Dr. SRINIVASAN SANKARANARAYANAN M.B.B.S.,

Diploma in Child Health (DCH), DNB-Paediatrics

Pediatrician Apollo Children's Hospital, Chennai

on

07th June 2022, at 4.00 PM

at

KRS Centenary Seminar Hall Meenakshi Sundararajan Engineering College



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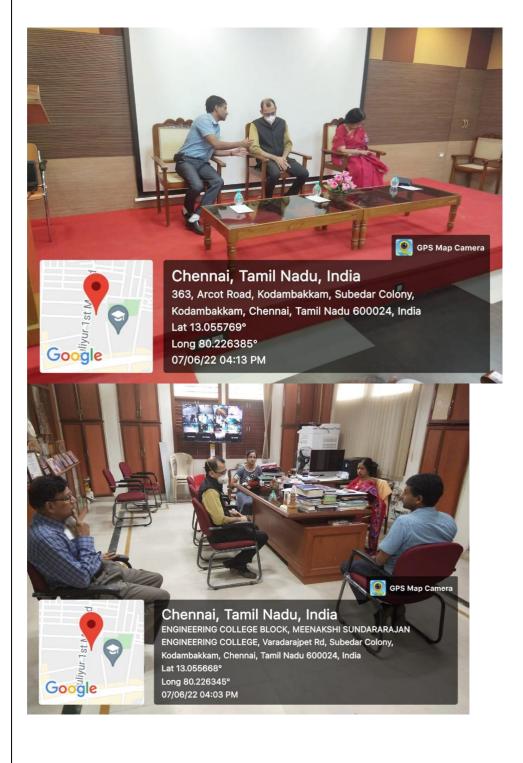


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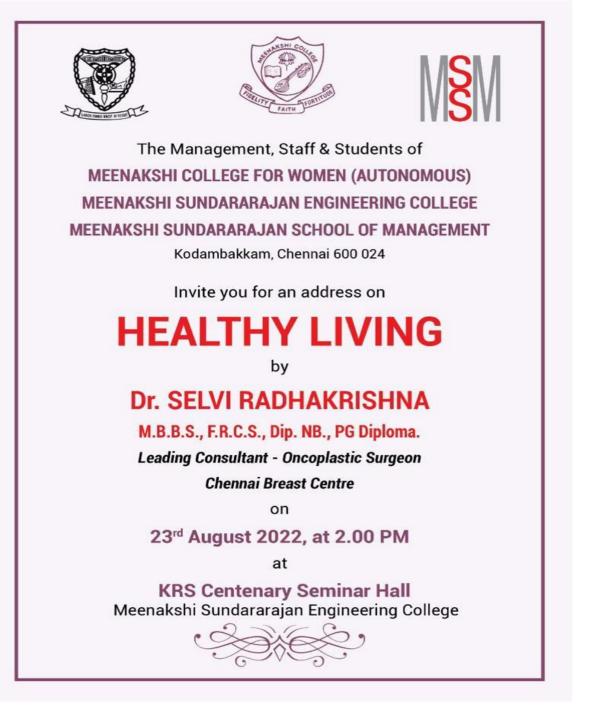


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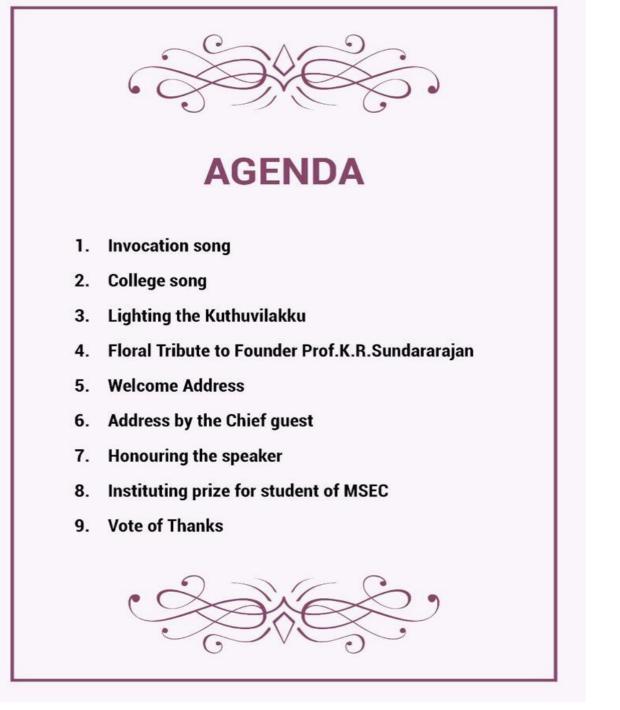


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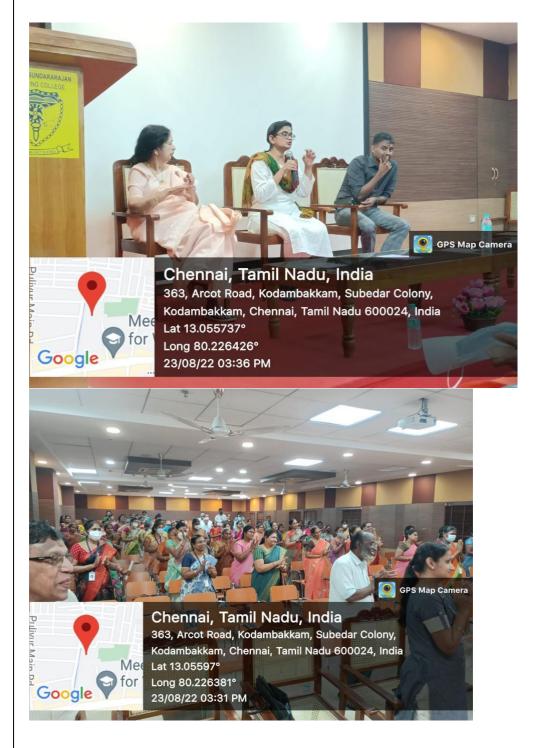


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