



MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

(Managed by I.I.E.T Society, Approved by AICTE, New Delhi,

Affiliated to Anna University, Chennai,

Accredited by NAAC with 'A' grade and NBA for programs applied,

Recognized by UGC with 2(f) & 12(B) status)

363, Arcot Road, Kodambakkam, Chennai – 600 024, Tamil Nadu, India



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



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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) Human values and Ethics in course curriculum
B) Health care awareness program
C) National Voter's Day
D) Anti-Ragging awareness program

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ANNA UNIVERSITY, CHENNAI NON- AUTONOMOUS AFFILIATED COLLEGES REGULATIONS 2021 CHOICE BASED CREDIT SYSTEM

B.TECH. INFORMATION TECHNOLOGY

I. PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates will be able to

- Demonstrate technical competence with analytical and critical thinking to understand and meet the diversified requirements of industry, academia and research.
- Exhibit technical leadership, team skills and entrepreneurship skills to provide business solutions to real world problems.
- Work in multi-disciplinary industries with social and environmental responsibility, work ethics and adaptability to address complex engineering and social problems
- Pursue lifelong learning, use cutting edge technologies and involve in applied research to design optimal solutions.

II. PROGRAM OUTCOMES (POs)

- 1 **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2 **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.
- 3 **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.

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- 4 **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.
- 5 **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.
- 6 **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.
- 7 **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8 **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9 **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

- 1 **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 1 **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
- 1 **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

III. PROGRAM SPECIFIC OUTCOMES (PSOs)

To ensure graduates

- Have proficiency in programming skills to design, develop and apply appropriate techniques, to solve complex engineering problems.
- Have knowledge to build, automate and manage business solutions using cutting edge technologies.
- Have excitement towards research in applied computer technologies.

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GE3791

HUMAN VALUES AND ETHICS

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COURSE DESCRIPTION

This course aims to provide a broad understanding about the modern values and ethical principles that have evolved and are enshrined in the Constitution of India with regard to the democratic, secular and scientific aspects. The course is designed for undergraduate students so that they could study, understand and apply these values in their day to day life.

COURSE OBJECTIVES:

- To create awareness about values and ethics enshrined in the Constitution of India
- To sensitize students about the democratic values to be upheld in the modern society.
- To inculcate respect for all people irrespective of their religion or other affiliations.
- To instill the scientific temper in the students' minds and develop their critical thinking.
- To promote sense of responsibility and understanding of the duties of citizen.

UNIT I DEMOCRATIC VALUES

6

Understanding Democratic values: Equality, Liberty, Fraternity, Freedom, Justice, Pluralism, Tolerance, Respect for All, Freedom of Expression, Citizen Participation in Governance – World Democracies: French Revolution, American Independence, Indian Freedom Movement.

Reading Text: Excerpts from John Stuart Mills' *On Liberty*

UNIT II SECULAR VALUES

6

Understanding Secular values – Interpretation of secularism in Indian context - Disassociation of state from religion – Acceptance of all faiths – Encouraging non-discriminatory practices.

Reading Text: Excerpt from *Secularism in India: Concept and Practice* by Ram Puniyani

UNIT III SCIENTIFIC VALUES

6

Scientific thinking and method: Inductive and Deductive thinking, Proposing and testing Hypothesis, Validating facts using evidence based approach – Skepticism and Empiricism – Rationalism and Scientific Temper.

Reading Text: Excerpt from *The Scientific Temper* by Antony Michaelis R

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UNIT IV

SOCIAL ETHICS

6

Application of ethical reasoning to social problems – Gender bias and issues – Gender violence – Social discrimination – Constitutional protection and policies – Inclusive practices.

Reading Text: Excerpt from *21 Lessons for the 21st Century* by Yuval Noah Harari

UNIT V

SCIENTIFIC ETHICS

6

Transparency and Fairness in scientific pursuits – Scientific inventions for the betterment of society - Unfair application of scientific inventions – Role and Responsibility of Scientist in the modern society.

Reading Text: Excerpt from *American Prometheus: The Triumph and Tragedy of J.Robert Oppenheimer* by Kai Bird and Martin J. Sherwin.

TOTAL: 30 PERIODS

REFERENCES:

1. The Nonreligious: Understanding Secular People and Societies, Luke W. Galen Oxford University Press, 2016.
2. Secularism: A Dictionary of Atheism, Bullivant, Stephen; Lee, Lois, Oxford University Press, 2016.
3. The Oxford Handbook of Secularism, John R. Shook, Oxford University Press, 2017.
4. The Civic Culture: Political Attitudes and Democracy in Five Nations by Gabriel A. Almond and Sidney Verba, Princeton University Press,
5. Research Methodology for Natural Sciences by Soumitro Banerjee, IISc Press, January 2022

COURSE OUTCOMES

Students will be able to

CO1 : Identify the importance of democratic, secular and scientific values in harmonious functioning of social life

CO2 : Practice democratic and scientific values in both their personal and professional life.

CO3 : Find rational solutions to social problems.

CO4 : Behave in an ethical manner in society

CO5 : Practice critical thinking and the pursuit of truth.

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The institution has effective welfare measures for teaching and non-teaching staff

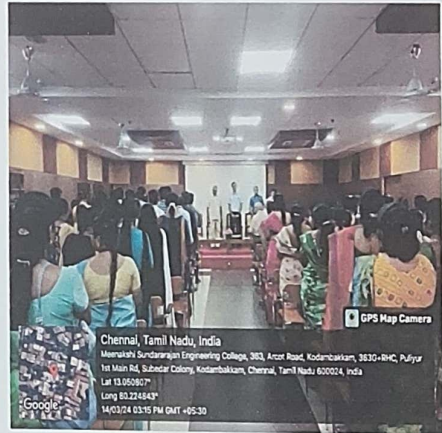
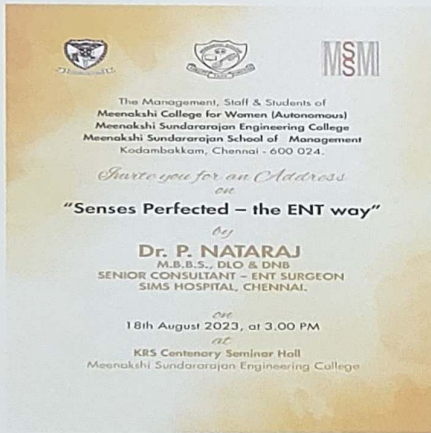
In this Academic year, we have a full-time counsellor at our institution dedicated to the welfare of both staff and students, conducting regular motivational sessions for our community.



Dr.SUGANTHI

Mrs.SISERA

HEALTH CARE AWARENESS PROGRAMME



Dr. Ram Prabahar addressed the gathering and delivered session on health issues related to kidney on 14/03/2024

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She

[K. Sweta) AP/A14025

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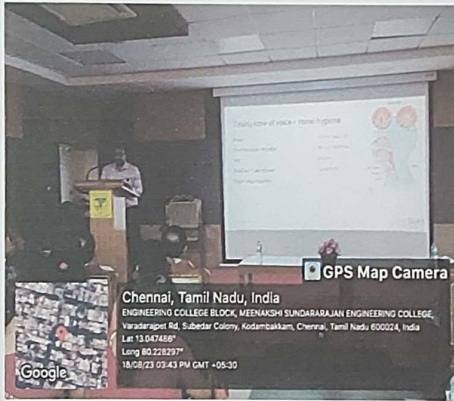
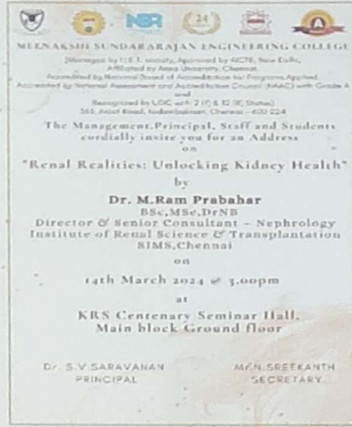
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Dr.P.Nataraj ENT Surgeon SIMS hospital delivered a session on ENT health awareness program on 18.08.2024

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NATIONAL VOTER'S DAY

The National Voter's day was celebrated in our college on 25th January 2024. The event was observed as Voters Pledge day. The event began with the briefing to the students about the importance of voting and further to elect the leader of various election bodies to vote without any fear or bias of caste or creed or language. All the students pledged that they would vote without any fear in the upcoming elections.



Students involving in the pledge taking activity in their respective classrooms.

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Shruti

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Principal

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ANTI-RAGGING AWARENESS PROGRAM

To educate students about the negative impacts of ragging and promote a positive campus culture. Clear rules and regulations against ragging, with specified punishments for offenders were explained to students in their respective classrooms.



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Creating awareness about anti-ragging for hostel students is crucial to fostering a safe and supportive living environment. Anti-Ragging Committee Incharge Mrs. Kanimozhi – HOD/IT with our Principal Mr.S.V.Saravanan, educated the students about what ragging is, its consequences, and how to report it and to help students recognize and respond to ragging. Everyone plays a role in preventing ragging and supporting one another.



Stay informed, speak up, and create a culture of respect!

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