



**THAMIRABHARANI ENGINEERING COLLEGE**  
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Chathirampudukulam, Chidambaranagar - Vepemkulam Road  
Thatchanallur, Tirunelveli 627 358, Tamil Nadu.

**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    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    8**

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**

  
Principal



**·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](http://www.onlineethics.org)
2. [www.nspe.org](http://www.nspe.org)
3. [www.globalethics.org](http://www.globalethics.org)
4. [www.ethics.org](http://www.ethics.org)

  
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GE8074

HUMAN RIGHT

L T P C 3 0 0 3

**OBJECTIVE :** To sensitize the Engineering students to various aspects of Human Rights

**UNIT I**

9

Human Rights – Meaning, origin and Development. Notion and classification of Rights – Natural Human Rights – Meaning, origin and Development. Notion and classification of Rights – Natural, Moral and Legal Rights. Civil and Political Rights, Economic, Social and Cultural Rights; collective / Solidarity Rights.

**UNIT II**

9

Evolution of the concept of Human Rights Magna carta – Geneva convention of 1864. Universal Declaration of Human Rights, 1948. Theories of Human Rights.

**UNIT III**

9

Theories and perspectives of UN Laws – UN Agencies to monitor and compliance.

**UNIT IV**

9

Human Rights in India – Constitutional Provisions / Guarantees.

**UNIT V**

9

Human Rights of Disadvantaged People – Women, Children, Displaced persons and Disabled persons, including Aged and HIV Infected People. Implementation of Human Rights – National and State Human Rights Commission – Judiciary – Role of NGO's, Media, Educational Institutions, Social Movements.

**TOTAL: 45 PERIODS**

**OUTCOME:** Engineering students will acquire the basic knowledge of human rights.

**REFERENCES:** 1. Kapoor S.K., —Human Rights under International law and Indian Laws, Central Law Agency, Allahabad, 2014.

2. Chandra U., —Human Rights, Allahabad Law Agency, Allahabad, 2014.

3. Upendra Baxi, The Future of Human Rights, Oxford University Press, New Delhi.

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### INDEPENDANCE DAY CELEBRATION

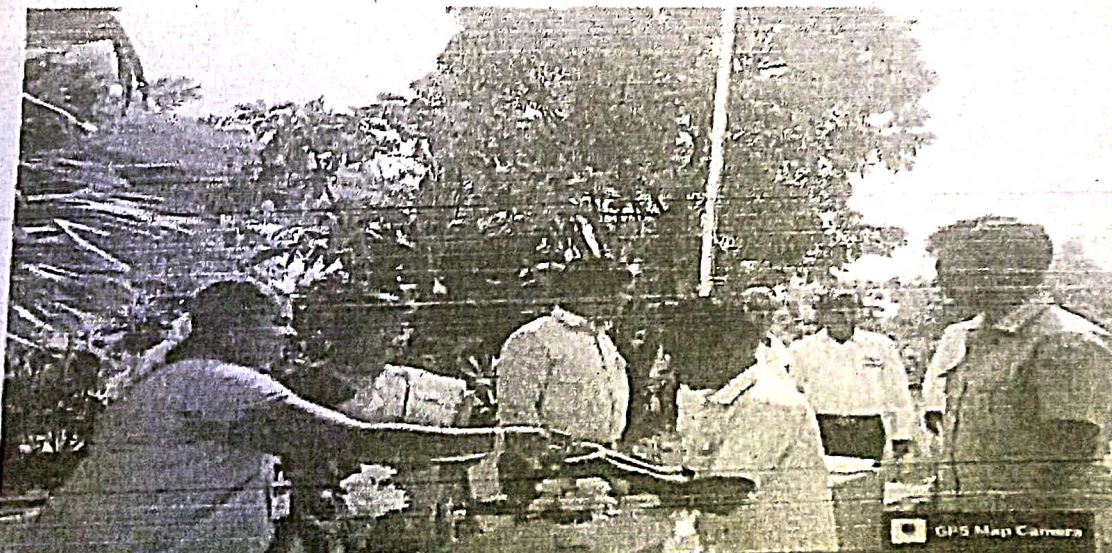
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Tirunelveli, Tamil Nadu, India  
QMCV+8QG, Tirunelveli, Tamil Nadu 627358, India  
Lat 8.772268°  
Long 77.696536°  
15/08/22 09:36 AM

Fig.1. Independence Day Sweets Distribution



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Tirunelveli, Tamil Nadu, India  
QMCV+8QG, Tirunelveli, Tamil Nadu 627358, India  
Lat 8.772285°  
Long 77.696523°  
15/08/22 09:36 AM

Fig 2: Independence Day Sweets Distribution

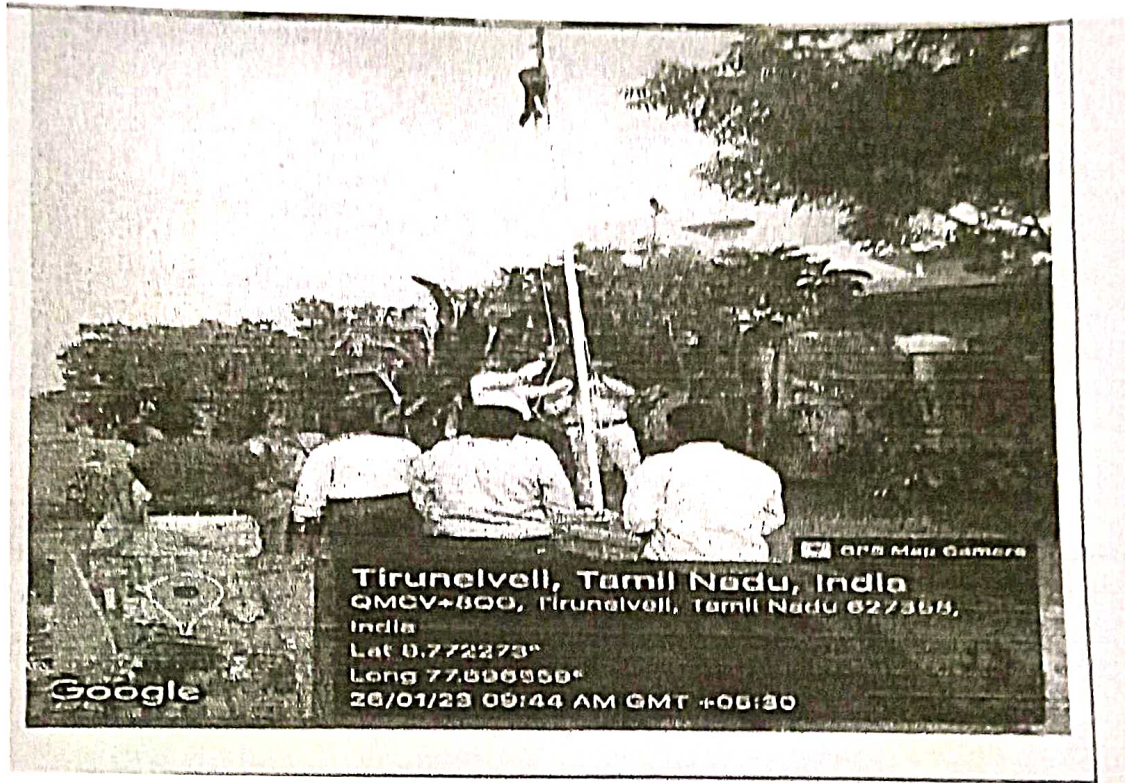
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## REPUBLIC DAY CELEBRATION



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