

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 HET 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 course in Curriculum
- b. Orientation Program for I year Students.
- c. Universal Human Values and Student Induction Program by AICTE.
- d. Appointment order.
- e. Invited talks by eminent personalities.
- f. NSS activities.
- g. Swachh Bharat initiatives.

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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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ENGINEERING COLLEGE
(Managed by HET Society)

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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:

- 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.
- 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.

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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:

- 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.
- Mark Newman, "Networks: An Introduction", Kindle Edition, 2010.
- Laura Chappel and Gerald Combs , "Wireshark 101: Essential Skills for Network Analysis", Kindle Edition, 2013.
- William Stallings., "SNMP, SNMP2, SNMP3 and RMON1 and 2", Pearson Education, 2004.
- 8. Daw Sudira, "Network Management", Sonali Publications, 2004.

GE8076

PROFESSIONAL ETHICS IN ENGINEERING

LTPC 3003

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

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.

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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

5

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

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:

- www.onlineethics.org
- www.nspe.org
- 3. 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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B.TECH INFORMATION TECHNOLOGY I - VIII SEMESTERS CURRICULUM AND SYLLABUS

SEMESTER I

SL. No.	COURSE	COURSE TITLE	L	Т	Р	С
THEO	RY		_	'		
1.	HS6151	Technical English – I				
2.	MA6151	Mathematics – I	3	1	0	4
3.	PH6151		3	1	0	4
4.	CY6151	Engineering Physics – I	3	0	0	3
5.	GE6151	Engineering Chemistry – I		0	0	3
6.	GE6152	Computer Programming	3	0	0	3
	TICALS	Engineering Graphics	2	0	3	4
7.	GE6161	Computer Practices Laboratory				
8.	GE6162		0	0	3	2
9.	GE6163	Engineering Practices Laboratory	0	0	3	2
	220100	Physics and Chemistry Laboratory - I	0	0	2	1
		TOTAL	17	2	11	26

SEMESTER II

SL. No.	COURSE	SEMESTER II COURSE TITLE		Т		
THEC				'	Р	С
1.	HS6251	Technical English – II		T .		
2.	MA6251	Mathematics – II	3	1	0	4
3.	PH6251	Engineering Physics – II	3	1	0	4
4.	CY6251		3	0	0	3
5.	CS6201	Engineering Chemistry – II	3	0	0	3
<u> </u>		Digital Principles and System Design	3	0	0	3
PRAC	CS6202 TICALS	Programming and Data Structures I	3	0	0	3
7.	GE6262	Physics and Chemistry Laboratory - II				
8.	IT6211	Digital Laboratory	0	0	2	1
9.	IT6212		0	0	3	2
0,	110212	Programming and Data Structures Laboratory I	0	0	3	2
		TOTAL	18	2	8	25

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OBJECTIVES:

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OUTCOMES:

TOTAL: 45 PERIODS

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(b) ORIENTATION PROGRAM:

Orientation program is conducted for the First year students during the commencement of their study in the institution. In this program, the Secretary of the institution elaborates the values, rights, duties and responsibilities of the students and parents. 1810 students got benefited through this program in the previous 5 years.

S.No	Academic Year	No. of Students benefited
1	2020-21	319
2	2019-20	355
3	2018-19	351
4	2017-18	384
5	2016-17	401
	TOTAL	1810

STUDENTS ORIENTATION PROGRAM



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STUDENTS ORIENTATION PROGRAM







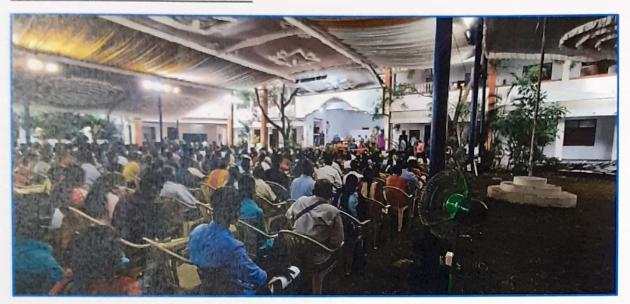
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STUDENTS ORIENTATION PROGRAM



(c) UNIVERSAL HUMAN VALUES:

59 faculty members of the institution attended the AICTE FDP on "Universal Human Values". Student Induction program is conducted for the first year students during the first two weeks of their course in the institution. This program emphasize on trust, right understanding, humanity and ethics. 319 students got benefited through this program in 2020-21.

S.No	Academic Year	No. of Days	Start Date	End Date	No. of Students benefited
1	2020-21	8 Days	10.11.2020	18.112020	319
2	2021-22	12 Days	15.11.2021	29.11.2021	414

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(d) APPOINTMENT ORDER:

Values, rights, duties and responsibilities are printed in the appointment order.



INDIAN INSTITUTE OF ENGINEERING TECHNOLOGY 1853 ARCOT ROAD, KODAMBAKKAM, CHEMIAI 24

Dr.K.S. BABAI, B.Sc, B.E. MS PhD FIE, MISTE Secretary Office: 24801636 Res: 28273549 (11)

57.02.2018

ORDERS OF APPOINTMENT OF THE TEACHING STAPF

Ref: Application of Ma.J.Soethalakakani

Ma.J. Seethelakuhmi M.Sc.M. Phill in hereby appointed as Assistant Professor in the Department of Physics in Meenakuhi Sundararajan Engineering College, Cheonai-24 on a salary as given below:

Grozz Pay 12000 Management Contribution to EPF 1440

Total 13440

The terms and conditions are mentioned in Amesure. The hours of work will be 8,30 A.M. to 4,30 P.M. from Monday to Saturday.

She is requested to join duty immediately producing the original certificates.

BECRETARY

To

Mr. J. Seethalakehmi Nor 1/575, 3 street. Lakehmi HagariSouthi, Mudichur, Chemai - 600 048.

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ANNEXURE

- In the interests of the Students, the Lecturer should not leave the service in the middle of the scademic year. If befule wants to relinquish the appointment at the end of the scademic year, he / she should give three months notice to the Management and can have from 1st May. The letter for resignation chould be on 1st February failing which, 3 months salary should be paid in lieu of notice period.
- The Lecturer shall discharge bentin duties officiently and disignatly to match with the anadomic standards and performance ourses had down by the college and the University.
- The Lecturer shall strive to update berthis knowledge and skill so as to be fully equipped professionally for the proper discharge of benful analyzed duties.
- The Lecturer shall conduct herediffriends with absolute dignity and decorum in horbits dealings with superiors, colleaguers and students at all times.
- The Locturer shall not absent herself/hieraelf from deties at any time without the prior permission of the Principal or any other designated authority.
- The Managarium may at any time terminate the service of the Lecturer for professional incomprisons, miscarduct, withful registered of duty or implication.
- The Lociuser while accepting the appointment give an undertaking that shafter would strictly abide by the conditions stipulated in the appointment order.
- Shall will be permitted to go for higher studies on part-time or on external registration (not full time) giving an undertaking that they would serve for 5 years after completion of Master Programms and 5 years after completion of the discompletion.
- Those who complete 3 years of sacrice are alone eligible to receive Service Cartificant

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(e) INVITED TALK:

Invited talks by eminent personalities are organized for the students and faculty regularly to motivate and inspire them regarding their social rights, values and responsibilities.

- Mr. V. Irai Anbu, IAS., Mr. T.A.B. Barathi, Vice President, Wheels India Ltd., Dr. P. Duraisamy Vice Chancellor, University of Madras, Chennai, etc. addressed the students during various occasions.
- Created awareness on health and right living to all the teaching, non-teaching and administrative staff through a series of lectures by eminent doctors in all fields of medicine (Neurosurgery, Gastroenterology, Cardiology and Ophthalmology). On an average 98 staff attended the program and got benefited.



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MEENAKSHI SUNDARARAJAN ENGINERING COLEGE

363,Arcot Road , Kodambakam,Chennai 600 024 (Managed by I.I.E.T SOCIETY)

COLLEGE DAY CELEBRATIONS

ON

21ST MARCH 2018, 2:00 PM at

MEENAKSHI SUNDARARAJAN AUDITORIUM

CHIEF GUEST:

Mr.T.A.B.BARATHI

VICE PRESIDENT-SUPLY CHAIN,

WHEELS INDIA LIMITED

PRINCIPAL

"ENAKSHI SUNDARARAJAN17

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MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

Presents

COLLEGE DAY '19

9th MARCH 2019 Agenda

- o Invocation
- o College Song
- Lighting the Kuthuvilakku
- O Pushpanjali to our Founder Prof. K.R. Sundararajan
- o Welcome Address by Dr.K.S.Babai, Secretary.
- o Annual Report by Dr. P.K. Suresh, Principal
- o Chief Guest Introduction by Dr. K. Umarani, Dean Academics.
- o Address by the Chief Guest Dr. P. Duraisamy
 - Vice Chancellor,
 - o University Of Madras,
 - Chepauk Campus, Chennai

- o Prize Distribution
- O Vote of Thanks Prof.Mr.S.Raman, Head of Dept, Mathematics.
- Cultural Programme

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(f) NSS ACTIVITIES:

Extension and outreach Programmes conducted by the institution through NSS& YRC

S.No.	Name of the activity	Name of Scheme	Year of the activity	Number of students participated in such activities
1.	Teacher's Day	Social Awarness	2020-2021	72
2.	Donating food oldage home	Social Awarness	2020-2021	50
3.	Save Earth by Avoding plastic	Social Awarness	2020-2021	111
4.	Covid awareness program	Social Awarness	2020-2021	97
5.	Yoga adds years to your life	Social Awarness	2020-2021	92
6.	Ayudha Pooja & Golu Celebration	Social Awarness	2020-2021	91
7.	Gandhi Jayandhi Celebration	Social Awarness	2020-2021	105
8.	Cleanliness Day Awearness program	Swachh Bharat Abhiyan	2020-2021	90
9.	Webinar On "Is Pandamic Due To Environmental Destruction"	Social Awarness	2020-2021	192
10.	Independance Day & Republic Day	Social Awarness	2020-2021	58
11.	Booster Vaccination awarness Program	Save Life Program	2020-2021	89
12.	Wear mask awarness Program	Save Life Program	2020-2021	109
13.	Doctors Program	Save Life Program	2020-2021	87
14.	Usage of solar power	engery consumption	2020-2021	53
15.	Self-defense training programme	Social Awarness	2020-2021	92
16.	Visiting Special Children For Donating Food.	Social Awarness	2020-2021	40
17.	Reduce Reuse Recycle-Cleanliness Day	Swachh Bharat Abhiyan	2019-2020	90
18.	Republic Day	Social Awarness	2019-2020	94

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19.	NSS Camp	Unnat Bharat Abhiyan	2019-2020	50
20.	Fire extinguisher awareness Program	Social Awarness	2019-2020	189
21.	Self-defense training programme	Social Awarness	2019-2020	195
22.	Gandhi Jayandhi Celebration	Social Awarness	2019-2020	57
23.	Ayudha Pooja & Golu Celebration	Social Awarness	2019-2020	91
24.	Be care for environment care-Tree Plantation	ECO Green Program	2019-2020	50
25.	Social Media Awareness Program	Social Awerness	2019-2020	112
26.	Fit India Movement	Fit India	2019-2020	100
27.	Independance Day	Social Awarness	2019-2020	94
28.	Doctors Program	Save Life Program 2019-2020		87
29.	Hepatitis B&C Screening & Awareness Camp	Social Awarness 2019-2020		50
30.	Healthy outside starts from inside- Yoga	Social Awarness 2019-2020		100
31.	CommunityGarden clean up event	Swachh Bharat Abhiyan	2019-2020	100
32.	Eye Camp	Social Awarness	2018-2019	50
33.	Stay Fit and Stay Healthy	Social Awarness 2018-2019		100
34.	Special Kid'sports	Social Awarness 2018-2019		30
35.	Clean India Green India	Swachh Bharat Abhiyan	2018-2019	90
36.	Road Safety and Traffic Awareness	Road Safety Week	2018-2019	89
37.	Fit India Movement	Fit India	2018-2019	100
38.	Nss Camp	Unnat Bharat Abhiyan	2018-2019	50
39.	Ayudha Pooja & Golu Celebration	Social Awarness	2018-2019	74
40.	Teacher's Day	Social Awarness	2018-2019	78
41.	Grow with Garden-Gardening	Swachh Bharat Abhiyan	2018-2019	59
42.	Plant the tree, Green the earth	ECO Green Program	2018-2019	72

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VIEENAKSHI SUNDARARAJAN
ENGINEERING COLLEGE

(Managed by HET Society) CHENNAI-600 024



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>

43.	Independance Day	Social Awarness	2018-2019	193
44.	Yava Sakthi Program	Social Awerness	2018-2019	87
45.	Solar energy conservation	YUVA (Young, Upcoming and Versatile Authors)	2018-2019	157
46.	Save Earth by Avoding plastic	ECO Green Program	2018-2019	89
47.	Social Media Awareness Program	Social Awarness	2018-2019	72
48.	self defence program	Social Awarness	2018-2019	58
49.	World Forestry Day	ECO Green Program	2017-2018	80
50.	Doctors Program	Swachh Bharat Abhiyan	2017-2018	200
51.	Awareness of saving water	Social Awarness	2017-2018	90
52.	Yuvashakthi	ECO Green Program	2017-2018	51
53.	Providing food for orphanage	Unnat Bharat Abhiyan	2017-2018	50
54.	Campus Cleaning	Ayush	2017-2018	66
55.	NSS Camp	Social Awarness	2017-2018	141
56.	Special kid's school sports day	Social Awarness	2017-2018	112
57.	Engaging Youth in Service Activity	Social Awarness	2017-2018	238
58.	Ayudha Pooja	Social Awarness	2017-2018	67
59.	Social media awareness program	Save Life Program	2017-2018	56
60.	Teachers day	Unnat Bharat Abhiyan	2017-2018	79
61.	Blood donation	Social Awerness	2017-2018	93
62.	Indenpendence day	Save Life Program	2017-2018	39
63.	Essay writing(city vs village life)	Save Life Program	2017-2018	78
64.	No Plastic Awarness Program	Social Awerness	2017-2018	51
65.	Trees for future	Save Life Program	2017-2018	49
66.	World Health Day	Social Awareness	2016-2017	54

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67.	World Water Day	Water Awareness 2016-2017 Program		100
68.	Go Green Classes	Eco Green Program	2016-2017	50
69.	NSS Camp	Unnat Bharat Abhiyan	2016-2017	89
70.	Yuvashakthi program	Social Awareness	2016-2017	94
71.	Gardening/ Campus Cleaning	Social Awareness	2016-2017	93
72.	Republic day	Social Awareness	2016-2017	50
73.	National Youth Day	Innovation program	2016-2017	135
74.	AIDS Awareness	Social Awareness	2016-2017	49
75.	Golu celebration	Social Awareness	2016-2017	156
76.	Gandhi Jayanthi	Social Awareness	2016-2017	53
77.	Teacher's Day	Social Awareness	2016-2017	159
78.	Visiting Special Children for Donation of Food	Swatch Bharat abhiyan	2016-2017	295
79.	Social media awareness Program	Social Awareness	2016-2017	97
80.	Health and welfare campaign	Ayush	2016-2017	58
81.	Yoga	Ayush	2016-2017	79
82.	Tree Plantation	Eco Green Program	2016-2017	59

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(g) SWAACH BHARATH:

MSEC creates awareness among the students on issues such as the impact of usage of plastics, cleanliness, green campus by inviting illustrious speakers to address the students .

One hour per week is allotted to the students in the regular timetable to maintain cleanliness in the campus to clean and water the plants

S. NO	SWACHH BHARAT INITIATIVE	DAY	Department	NO. OF VOLUNTEERS/ PARTICIPANTS	VENUE
1.		MONDAY 3.30-4.30 PM	Electronics And Communication Engineering	All students from the respective department	Meenakshi Sundararajan Engineering College Campus
2.		TUESDAY 3.30-4.30 PM	Computer Science And Engineering	All students from the respective department	Meenakshi Sundararajan Engineering College Campus
3.	GARDENING	WEDNESDAY 3.30-4.30 PM	Civil Engineering	All students from the respective department	Meenakshi Sundararajan Engineering College Campus
4.	/ CAMPUS CLEANING	THURSDAY 3.30-4.30 PM	Electrical And Electronics Engineering	All students from the respective department	Meenakshi Sundararajan Engineering College Campus
5.		FRIDAY 3.30-4.30 PM	Information Technology	All students from the respective department	Meenakshi Sundararajan Engineering College Campus
6.		SATURDAY 3.30-4.30 PM	Mechanical Engineering	All students from the respective department	Meenakshi Sundararajan Engineering College Campus

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SAMPLE NSS ACTIVITIES

HEPATITIS - Youth Red Cross





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Eye Camp





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Campus Cleaning



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