

ANNUAL REPORT FOR THE ACADEMIC YEAR 2015-16



Matrusri Engineering College

(Sponsored by Matrusri Education Society, Estd.1980)

(Approved by AICTE & Affiliated to Osmania University)

16-1-486, Saidabad, Hyderabad-500059

www.matrusri.edu.in



MATRUSRI EDUCATION SOCIETY (Estd.1980)

3-6-653, Himayatnagar, Hyderabad – 500 029

Matrusri Education Society (MES) was formed in 1980 by a group of forward-looking and eminent engineers, doctors, lawyers and businessmen and administrators with an aim to harness technical excellence.

The prestigious society provides excellent infrastructure and institutional facilities and encourages its experienced and learned teachers to adopt innovative teaching techniques. Exceptionally well-framed curriculum with unique teaching methodologies supported by practical skills and job-ready skills has been the strengths of the institution and it is marching forward with the latest advancements in technical education.

EXECUTIVE COMMITTEE MEMBERS

S.No.	Name	Designation
1.	Dr. M. V. Sridhar	Chairman
2.	Dr. K. P. Srinivasa Rao	Vice Chairman-I
3.	Sri. M. Krishna Kumar	Vice Chairman-II
4.	Sri. T. Jitendranath	Secretary
5.	Sri. M. V. S Pavan Kumar	Joint Secretary-I
6.	Smt. K. Uma Devi	Joint Secretary II
7.	Sri. M. V. Vasudeva Rao	Treasurer
8.	Sri. K. Venkata Ratnam	Member
9.	Sri. M. B. S. Purushottam	Member
10.	Sri. P. V. Rajeswara Rao	Member
11.	Sri. J.Sudhakar	Member
12.	Dr. K. Radha Kishan Rao	Member
13.	Sri. A. Radha Krishna Murthy	Member
14.	Sri. K. Kameswara Rao	Member
15.	Sri. K. Seetharam Babu	Member
16.	Sri. R. Partha Saradhi	Member

Chairman's Message



Dr M V Sridhar
Chairman
Matrusri Education Society

I strongly believe that “The purpose of education is to turn mirrors into windows”. Education is the seedbed of growth, progress and development in any part of the world. Its contribution has been immense to hoist the society technically and in shaping the moral fiber of the student community and contributing to the nation’s well-being by producing the bright minds of tomorrow. Pursuing this belief, our institution provides the students every opportunity and facility to explore their talent.

Dr.M.V.Sridhar, Chairman, MES

Secretary's Message



Sri. T. Jitendranath
Secretary
Matrusri Education Society

Matrusri Engineering College, within a short span of its inception, has grown to be a premier engineering college of its kind and has won laurels from the industry. The faculty and staff are dedicated to providing value-based education that instills basic knowledge for sound practice in the field of science and technology for the well being of the society. The institution offers programs that nurture the creative thinking of the students and prepares them for a successful career as engineers.

Sri T.Jitendranath, Secretary, MES

MATRUSRI ENGINEERING COLLEGE

Institute Vision and Mission

Vision

- To be a premier academic institution striving continuously for excellence in technical education, research and technological service to the nation.

Mission

- To recognize and make quality Engineering education available to the society.
- To create a community of learning in which students acquire knowledge and apply them professionally with societal concern.
- To prepare for life-long learning to meet intellectual and career challenges.
- To promote professional ethics, leadership qualities and social responsibilities.
- To maintain research environment with an opportunity to create, apply and disseminate knowledge to the needs of society and the industry.

Quality Policy

We strive to be recognized as a centre of excellence and committed to continuously improve the quality of technical education by producing outstanding engineers willing to work to the spirit of challenge and innovation with high ethical and professional standards.

Administration

Principal

Dr. D. Hanumantha Rao
HOD, Mechanical Engineering

Heads of the Departments

Civil Engineering - Dr.G.Manohar
Computer Science and Engineering – Prof.G.Veershalingam
Electrical and Electronics Engineering - Dr.G. Ravindranath
Electronics and Communication Engineering – Dr.P.Hara Gopal Mani
Sciences and Humanities - Dr. T.Shekharam

ANNUAL REPORT FOR THE ACADEMIC YEAR 2015-16

I welcome all of you to the Fifth Annual Day & Awards function of Matrusri Engineering College.

Matrusri, sponsored by Matrusri Education Society, being established as a sapling by a group of perceptive and distinguished engineers, doctors, lawyers, businessmen and administrators as its members in 2011 is now all grown into a huge tree. Today's celebrations mark our college's continuous success in the area of education.

Matrusri, serving its farsighted vision and mission, has been imparting the ideals of academic excellence, sense of discipline and high moral and ethical values to its students shaping them into integrated personalities.

The academic year 2015-16 has articulated and widely demonstrated our relentless pursuit of achieving excellence, proving our commitment towards the institution. I deem it a privilege to present the annual report of the college for the academic year 2015-16.

Courses Offered:

- The college offers courses in Civil Engineering (intake of 60), Computer Science and Engineering (intake of 120), Electronics and Communication Engineering (intake of 120), Electrical and Electronics Engineering (intake of 60) and Mechanical Engineering (intake of 60).

Instructional facilities:

Being instituted in 2011, Matrusri Engineering College has successfully completed 5th Year of instruction and started using the classrooms and laboratories in the newly constructed building for Mechanical Engineering and Civil Engineering Departments. A new Computer Laboratory for Engineering Graphics was also established for the 1st year students.

MEC Achievements

Professional Memberships

We are also associated with CISCO Networking Academy and Oracle Academy for training and certification courses and Vivekananda Institute of Human Excellence, Domalguda, Hyderabad.

Leading the faculty members towards progression in their respective subjects, several FDPs have been conducted in association with external agencies like NITTTR, Kolkata, IIT, Bombay etc.

In addition to the above more than fifteen different workshops and training programs were organized by all the departments together.

Library

MEC is dedicated to the cause of education and research in Engineering and Technology. Students are provided with a well equipped library. The library is open from 9:30 a.m. to 6:00 p.m. and the issue section with open access is available for students. The reference section with 1350 titles and 9084 volumes, hand books, periodicals, back volumes of periodicals, stocks of CDs, audio-visual aids help the faculty and students to refer and collect the best of technical knowhow. The library subscribes 30 National Journals, 12 International Journals and Magazines. Twelve computers are loaded with E-Journals, E-Resources and provided with internet facility. Scholarly research documents are also provided to the students and the staff. Online journals are DELNET and J Gate. E-books are 136.

Faculty:

Our college has set its own standards in the field of teaching, learning and research which stimulates us in our relentless pursuit of excellence and perfection which in fact, has become a way of life for us.

We have 104 well experienced, ambitious and passionate teaching staff, all of them with postgraduate qualification, 19 faculty with PhD qualification and another 35 faculty are pursuing PhD from different universities. Every year our faculty upgrade themselves. As a part of this, five faculty members have been awarded PhDs.

1. The following faculty members have been awarded Ph.Ds:
 - i. Dr. G.Shyama Chandra Prasad, Assoc.Prof., CSE Dept.
 - ii. Dr.T.V.V.Satyanarayana, Assoc. Prof, ECE Dept.
 - iii. Dr.Pallavi Akhil Khare, Asst. Prof, ECE Dept.
 - iv. Dr.Gopal Venumadhav, EEE Dept.
 - v. Dr.T.Sekharam, Prof., S&H Dept.
2. Dr.G.Manohar, Professor, registered a Ph.D as external guide at Department of Civil Engineering, KL University, Vaddeswaram, Guntur, A.P. on “Mitigation of time period of collapse of RCC buildings for earthquake by using retrofitting techniques and materials” by a scholar Mr.V.S.R.Pavan Kumar Rayaprolu, Asst.Professor, V.R.Siddhartha Engineering College, Vijayawada.A.P in the month of June, 2015.
3. The faculty members are always encouraged to update themselves. As a part of this, the following faculty members have presented papers in different journals:
 - M.Saritha (International Journal of Scientific Engg. Technology, Vol-5, Issue-6, Mar'16, Pages:1191-1196)
 - P.Anil Kumar, (International Journal of Applied Control, Electrical and Electronics Engineering (IJACEEE), Vol.1.)
 - P.Anil Kumar, (International Journal on Recent and Innovation Trends in Computing and Communication, Volume: 2 Issue: 7.)
 - M.V.Subramanyam, (The IUP Journal of EEE, Volume:VII, No. 4.)
 - P.Kishor, (National Conference at Malla Reddy Women's Engg College, Volume: 1.)
 - G.Venumadhav, (International Conference on Paradigms in Engineering and Technology (ICPET) 2016, Hyd., Pages: 136 – 140, Print ISBN: 978-93-5258-110-8.)

In the last one year, a total number of 80 faculty members attended various workshops, seminars and published more than 06 technical papers in national journals and -- publications in international journals

Matrusri is keen on nurturing its faculty technically and always is a step ahead to encourage its faculty to enroll for different technical courses sponsored by prestigious bodies like IITs and IISc.

Paper Publications 2015-16:

S. No.	Title of paper	Name of the author/s	Dept	Name of journal
1	Variability In Physiological And Yield Performance Of Castor Genotypes Under Rainfed Condition Of Alfisols	G.Satyavathi	CIVIL	International journal of Plant Breeding and Genetics
2	Global Optimization For The Forward Neural Networks And Their Applications	Dr.K. Sunil Manohar Reddy	CSE	Journal on Computer Science
3	An Analysis Of Mutation And Crossover In Evolutionary Neural Networks, Volume 3 Issue 2	Dr.K. Sunil Manohar Reddy	CSE	International Journal of Advanced Research in Science, Engineering and Technology
4	Inter Path Interference Minimized Multipath Routing In Wsn For Multiple Source And Destination Pairs	Mrs.K. Bhagya Laxmi	CSE	International Journal for Scientific Research & Development
5	Inter Path Interference Minimized Multipath Routing In Wsn For Multiple Source And Destination Pairs	Mrs.J Samatha	CSE	International Journal for Scientific Research & Development
6	Role Of Data Mining In Web Services Discovery And Monitoring	Mrs.G.Pratibha	CSE	International Journal of Research in Information Technology
7	Web Search Result Optimization Using Association Rule Mining	Mrs.G.Pratibha	CSE	International Journal of Innovative Science Engineering and Technology

8	Attack Resilientdynamic Key Management For Dynamic Wireless Sensor Networks	Mrs.G.Pratibha	CSE	International Journal of Computer Science and Mobile Computing
9	Dynamic And Adaptive Routing Services For Data Integrity In Wireless Sensor Networks	Mrs.G.Pratibha	CSE	International Journal of Advanced Engineering Research and Technology
10	A Comparative Study On Relevance Measure With Compression Ratio For Telugu Text Summarization Using Maximal Marginal Relevance	Dr. P.Vijaya Pal Reddy	CSE	First International Conference on Advances in Soft Computing and Communication Technologies
11	Influence Of Lexical, Syntactic And Structural Features And Their Combination On Authorship Attribution For Telugu Text	Dr. P.Vijaya Pal Reddy	CSE	Elsevier - International Conference on Intelligent Computing, Communication & Convergence
12	Analysis Of Mutation And Crossover In Evolutionary Neural Networks	Dr.K. Sunil Manohar Reddy	CSE	5th National Conference on Emerging & Innovative Trends in Computer Science
13	A Portable Wireless Pc Mouse Pointer Control Based On Head Movement	K.Vijetha	ECE	International Journal of Scientific Engineering and Technology Research
14	Realisation Of 4 To 16 Reversible Decoder Using Verilog	P Sravani	ECE	International journal of latest technology in Engineering ,management and applied science
15	Verilog Implementation Of Reversible Logic Gates	P Sravani	ECE	International journal of engineering research in Electronic and communication engineering
16	Performance Analysis Of Different Multipliers For Embedded And Dsp Applications Dsp Applications	K.Vijetha	ECE	IOSR Journal of VLSI and Signal Processing

17	Protection Issues In Micro Grid	P.Anil Kumar	EEE	International Journal of Applied Control, Electrical and Electronics Engineering (IJACEEE)
18	Performance And Analysis Of 3Ph Pwm Inverter With Fuzzy Interface Direct Current Controller	M.Saritha	EEE	International journal of scientific engg and technology
19	Optimization Of Edm Process Parameters And Graphite Powder Concentration On Electrical Discharge Machining Of Ti-6Al-4V Alloy Using Taguchi Method	Dr.D.Hanumantha Rao	Mechanical	International Journal Of Advances In Production & Mechanical Engineering (IJAPME)
20	Experimental Study On The Effect Of Mechanical Stirring In Semisolid Processing Of Aluminum Alloys At Thixo-Temperatures	Dr.D.Hanumantha Rao	Mechanical	Material Science Forum
21	Experimental Study On The Effect Of Mechanical Stirring In Semisolid Processing Of Aluminum Alloys At Thixo-Temperatures	Dr.M.V.Kishore	Mechanical	Material Science Forum
22	A Study On Effect Of Filler (SiO ₂) On Mechanical Properties Of Glass /Epoxy (Ht) Cure Composites.	Mr.C.Venkatshwar Reddy	Mechanical	International journal of research in engineering technology (IJRET)
23	Finishing Of Steels Through Hydraulics	Ms. V. Poojitha	Mechanical	International Journal of Engineering Sciences & Research Technology
24	Study On Vertical Machining Center	Ms. V. Poojitha	Mechanical	International Journal of Engineering Research, Sciences & Technology
25	Design Of Hvac For A Corporate Building Using Ahu	Ms. V. Poojitha	Mechanical	International Journal of Engineering Research, Sciences & Technology
26	Finishing Of Steels Through Hydraulics	Mr. A. Kalyan Charan	Mechanical	International Journal of Engineering Sciences & Research Technology

27	Study On Vertical Machining Center	Mr. A. Kalyan Charan	Mechanical	International Journal of Engineering Research, Sciences & Technology
28	Design Of Hvac For A Corporate Building Using Ahu	Mr. A. Kalyan Charan	Mechanical	International Journal of Engineering Research, Sciences & Technology
29	Effect Of Cadmium On Structure And Optical Properties Of Zno Nanopowders By Sol-Gel Method	T Shekharam	S&H	Materials Today
30	Synthesis And Anti-Microbial Agents Of Novel (E)-N'-4,4'-Difluoro-Cyclohexane Carboxylic Acid (Substituted-Benzylidene)-Hydrazide Derivatives	Dr.Y.Aparna	S&H	World Journal of Pharmacy and Pharmaceutical Sciences
31	A Review On Reactions And Applications Of Oxazolones	Dr.Y.Aparna	S&H	International Journal of Scientific research and publications
32	Synthesis, Characterization And Molecular Docking Studies Of New Erlenmeyer Azlactones	Dr.Y.Aparna	S&H	International organization of Scientific Research
33	Optimum Allocation Of Computer Resources Through Goal Programming	Dr.M.Yuvaraju	S&H	International Journal of Innovative Technology and Research
34	Capital Budgeting Decision - A Fuzzy Goal Programming Approach	Ramesh Mannuru	S & H	IJITR

Awards and Recognitions 2015-16

S.No	Name of the activity	Name of the Award/ recognition	Name of the Awarding government/ government recognised bodies
1	Institute of Electrical and Electronics Engineers- MTT/EMC	Significant contributions	Institute of Electrical and Electronics Engineers MTT/APS/EMC Society 2014to2016

Books and Chapters 2015-16

Sl. No.	Name of the teacher	Title of the paper	Title of the proceedings of the conference
1	Dr. Pallavi Khare	Image Segmentation: Fuzzy C-Mans Clustering with Kernel metric and Local Information	National conference on Advances in Information Technology NCAIT 2016
2	Dr. P. Vijaya Pal Reddy	Emprical evaluatons using character and word n-grams on authorship attribution for telugu text	Springer transactions on International Intelligent computing and applications

Faculty attended FDPs

In the academic year 2015-16, a total of 32 faculty have undergone various Professional Development Programmes like UGC –AICTE sponsored 1 week / 2 week FDPs at IITs, NITs & reputed organisations / certification courses like NPTEL ,COURSERA, SWAYAM , ARPIT / AICTE-ISTE sponsored STTPs & Refresher Course s etc.

Financial Assistance to Faculty

In the academic year 2015-16, Teachers are provided with financial support in 67 activities to attend Conferences/workshops and towards membership fee of professional bodies.

Professional Development Activities for Teaching/Non Teaching Staff

In the academic year 2015-16, a total of 13 professional development /administrative training programs were organized by the institution for teaching and non-teaching staff.

Academics

Students' Achievements

It gives me immense sense of pride to share with all of you the names of the students who have been the pride of MEC as they have secured top ranks in the OU final examinations in 2016.

S.No.	ROLL NO	NAME & BRANCH	ACADEMIC YEAR	OU RANK
1	1608-12-732-001	PALAKURTHI AMULYA SREE, CIVIL	2015-16	II

Students' Results for the Academic Year 2015-16:

Dept	APPEAR ED	PASSED	DISTINCTI ON	I DIV	II DIV	PASS %
CIV	61	55	18	32	5	90
CSE	92	82	41	37	4	90
EEE	56	50	22	22	6	90
ECE	129	111	60	51	7	93
Mech	64	54	22	28	4	85

OVERALL PERCENTAGE %			
Passed	Distinction	First Class	Second Class
90%	41	42	6

Co-curricular Activities

Matrusri Engineering College strongly believes that students' comprehensive development is through the academic learning programs blended with various co-curricular activities. It further opines that these activities are a great way to demonstrate the self-interests and technical talents of the students.

Gold medals

Matrusri Educational Charitable Trust (MECT) encourages the students to develop a strong competitive spirit throughout the four years of study in

their respective courses. In this endeavour, it presents Gold Medals to the class toppers every year motivating them to give their best in their studies.

ED-Cell Activities

Sl.No	Name Of The Program	Date	No of Students Benefitted/ Participated.
1	One Day Workshop On Entrepreneurship Development By NSIC (National Small Industries Corporation Limited) By Mr.S.Srinivas	28/08/2015	57 Students From Various Depts, 9 Faculty Members.
2	One Day Workshop On Entrepreneurship Development By NSIC (National Small Industries Corporation Limited) By Mr.S.Srinivas	01/10/2016	MECH – 30 CIVIL – 14 EEE – 7 Other Colleges – 6

Higher Studies

Our college students being inspired by the mission of the college, preparing its students for lifelong learning to meet intellectual and career challenges, around 80 of them have secured admissions in postgraduate programs like MS, M Tech, MBA, PGDCPM, etc

Training & Placements

Students are consistently prepared to meet the challenging technical demands for both employability and to create employability. Matrusri is committed to continue the legacy of training its students from the time of its inception by assimilating several Technical certification programs like IT Essentials, CCNA, and Oracle Certification.

I am highly elated to apprise you all that many of our students have been placed in Cognizant and TCS. Other top companies like Hitachi Consulting,

ValueLabs, Adobe Systems, Infosys, Wipro, DXC Technology, Hexaware Technologies, CtrlS, Amazon, Medhaservo, Veda IIT, TA Digital and OTSI etc have offered good placements to our students.

Extracurricular Activities

Games and Sports

MEC encourages and supports its students to participate in sports and games wholeheartedly and as a result of this endeavour, some of the achievements of its students are:

- College Cricket Team participated in “EENADU Cricket Championship” and “SAKSHI ARENA ONE”.
- Ms. M.Harshitha from Civil and Ms.P.Samhitha participated in Table tennis team event organized by Anurag Group of Institutions, the event was named as “SPORTS BOUT 2K15”.
- Mr.K.Nikhil Reddy from Civil and Mr.M.Shivaji from CSE, won First prize in Carroms event organized by SNIST which was an Inter College Tournament.
- Ms. M.Harshitha from Civil branch, won the Silver in All India Inter Universities Tournament.



Clubs

We have different clubs like Matrusri Campus Connect, Matrusri Dance Club, Music Club, Youth for Seva, Orator's Club and Photography Club.

Conclusion

Eventually, all our endeavours have been possible with the excellent support and persistent encouragement extended by the management committee. I admire the services offered by highly qualified heads of the departments and dedicated faculty members.

I would like to conclude by extending our sincere thanks to all the parents and our well wishers who have lent a supportive hand down through the years.

My best wishes to all the outgoing students of 2016.

Thank you.