

ANNUAL REPORT FOR THE ACADEMIC YEAR 2017-18



Matrusri Engineering College

(Sponsored by Matrusri Education Society, Estd.1980)

(Approved by AICTE & Affiliated to Osmania University)

16-1-486, Saidabad, Hyderabad-500059

ISO 9001:2015 Certified Institution, 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 impart quality technical education.

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.

EXECUTIVE COMMITTEE MEMBERS

S.No.	Name	Designation
1.	Dr. K. P. Srinivas Rao	Chairman
2.	Sri Sudhakar Jupudi	Secretary
3.	Sri. M. Krishna Kumar	Vice Chairman-I
4.	Sri. T. Jitendranath	Vice Chairman-II
5.	Smt. K. Uma Devi	Joint Secretary-I
6.	Sri. M. V. S. Pavan Kumar	Joint Secretary-II
7.	Sri. M. V. Vasudeva Rao	Treasurer
8.	Sri. M. B. S. Purushottam	Member
9.	Sri. K. V. Gupta	Member
10.	Dr. K. Radha Kishan Rao	Member
11.	Dr. K. Seetha Ram Babu	Member
12.	Sri. R. Partha Saradhi	Member
13.	Sri P.V.R.Kashyap	Member
14.	Sri. A. Vasanth Kumar	Member
15.	Smt. M. Sagarika	Member
16.	Smt. K. Hiranmayi	Member

Chairman's Message



Dr. K.P. Srinivas Rao
Chairman
Matrusri Education Society

Matrusri Engineering College, since its inception in 2011 has made remarkable progress by following the mantra of student centric approach and at the same time preparing them for the present industrial requirements. The academic activities concentrate on helping the students to gain an excellent theoretical knowledge base and in the development of skills to implement them. We are constantly reviewing our set up to update and improve while making sure that students gain thinking skills, analytical frameworks, entrepreneurial skills, interpersonal and communication skills.

“The best way to predict the future is to create it” -Abraham Lincoln

MEC believes in investing trust on its students and is committed to provide all possible opportunities to them. The out-of-the-box thinking and innovative approaches are important qualities of a genuine engineer. Aiming at developing world class engineers, I am confident that we would fulfill the demands of the fast paced industries.

Dr. K. P. Srinivas Rao, MBBS, MS (Ophthalmology), Chairman, MES

Secretary's Message



Sri. Sudhakar Jupudi
Secretary
Matrusri Education Society

I deem it a great privilege and pleasure of the fact that MEC is on its way to become one of the best reputed colleges providing value-based Technical Education. College education is the foundation for all future possibilities in the life of a student. As Oliver Wendell Jr. said

“A mind that is stretched by new experiences can never go back to its old dimensions.”

This institution is on a path to provide these experiences and create the required atmosphere for the students to instigate the creativity and innovation within them. I earnestly hope and trust that, my esteemed academicians and budding technocrats will work with sincerity, honesty and dedication and thereby contribute to make this world a better place to live in.

Sri Sudhakar Jupudi, 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

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

Mechanical Engineering - Dr. M.V.Kishore

Sciences and Humanities - Dr. T.Shekharam

ANNUAL REPORT FOR THE ACADEMIC YEAR 2017-18

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

Matrusri, sponsored by Matrusri Education Society, 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. Today's celebrations mark our college's continuous success in the area of education.

The academic year 2017-18 has articulated and widely demonstrated our relentless pursuit of achieving excellence, proving our commitment towards the institution. It is my privilege to present the annual report of the college for the academic year 2017-18.

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

Well-structured and ventilated infrastructure consisting of spacious classrooms and the laboratories are progressively advanced with state-of-the-art equipment. The college is providing facilities through R&D labs equipped with modern high-end technologies, some of them are M/s Texas Instruments (TI) Innovation Lab, BOTLAB (CSE Dept.) Institution Innovation Council (IIC) in association with MHRD, Govt of India & - e-Yantra Lab- in collaboration with IIT Bombay.

MEC Achievements

Department of CSE got approval of Rs.3 Lakhs from ISTE-AICTE for a Six-Day Workshop, “Computational Intelligence using machine learning techniques”, which is going to be organized in the month of June, 2018.

As a part of MHRD initiative on the National Mission on Education, through Information and Communication Technology (NME-ICT), IIT Bombay sanctioned MEC a remote center to organize various seminars and workshops through online in collaboration with IIT Bombay.

Professional Memberships

The college has set its own standards by formulating diversified perspectives in academics to reach excellence and perfection of the curriculum. In this regard, to create professional environment among staff and students we are associated with professional bodies like:

Institutional Memberships: IEI, CSI, IETE, IGBC, ISIE India & ISTE

Students' Chapters: IEI, CSI, IETE, IEEE, IEE-MTT & SAE India

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 **10** 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 1765 titles and 15800 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 41 **National & International Journals and Magazines**. **Twenty** eight 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 385.

Faculty Achievements

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 119 well experienced, ambitious and passionate teaching staff, all of them with postgraduate qualification, 27 faculty members with PhD qualification and **40 faculty are** pursuing PhD from different universities. Every year our faculty upgrade themselves. As a part of this, two faculty members have been awarded PhDs and they are:

- 1.Dr.M.V.Kishore, Mechanical Department
- 2.Dr.M.Yuvaraju, S&H Department

Dr. G.Shyama Chandra Prasad, Assoc.Professor, CSE Dept. received Best Instructor Service award by CISCO(Feb-2018).

Dr.Pallavi Khare, Asst.Professor, ECE Dept. received active SPOC by NPTEL for July-December 2017 Semester, by IIT Madras.

In the last one year, a total number of 278 faculty members attended various workshops, seminars and published more than 26 technical papers in national journals and 3 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.

Around 39 faculty members have registered for NPTEL (National Programme on Technology Enhanced Learning) courses, some of them have bagged Elite-Gold and Elite-Silver medals.

Paper Publications 2017-18

S. No.	Title of paper	Name of the author/s	Dept	Name of journal
1	Moisture Deficit Stress, Thermal Regimes And Their Interaction On Biomass And Yield Components Of Two Blackgram (Vignamungo L. Hepper) Genotypes	G.Satyavathi	CIVIL	International Journal of Current Science
2	Optimum Design Of Multi Storied Building Against Blast Loads	Prof.G.Manohar	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
3	Experimental Study On Geopolymer Concrete	Prof.G.Manohar	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
4	Numerical Modelling Of Contaminant Transport In Soil	Prof.G.Manohar	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
5	Economic Analysis Of Flexible Pavement By Using Sub Grade Soil Stabilized With Zycobond And Terrasil	P.V.S.Koteswar Rao	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
6	Manufacturing Of Elliptical Shape Concrete Hollow Bricks Using Granulated Blast Furnace Slag As A Fine Aggregate	P.Dhanamma	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
7	Impact Of Moisture Deficit Stress On Growth, Biomass And Yield Parameters Of Cluster Bean (Cyamopsistetragonolobal.Taub.) Genotypes	G.Satyavathi	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
8	Study Of Concrete Using Ld Slag As Partial Replacement Of Coarse Aggregate	S.Lokeswari	CIVIL	International Journal of Creative Research Thoughts (IJCRT)

9	Study Of Concrete Using Ld Slag As Partial Replacement Of Coarse Aggregate	B.Udayasree	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
10	Outer Ring Road Traffic Analysis And Prediction	K.S.Sugunaleela	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
11	Determination Of Bump Indicator And International Roughness Index From Pavement Condition Index	K.S.Sugunaleela	CIVIL	Journal of Emerging technologies & innovative research
12	Manufacturing Of Elliptical Shape Concrete Hollow Bricks Using Granulated Blast Furnace Slag As A Fine Aggregate	T.Rajaramanna	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
13	Study Of Concrete Using Ld Slag As Partial Replacement Of Coarse Aggregate	T.Rajaramanna	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
14	Experimental Study On Geopolymer Concrete	P.Prashanth	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
15	Numerical Modelling Of Contaminant Transport In Soil	M.Srividya	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
16	Optimum Design Of Multi Storied Building Against Blast Loads	P.Prashanth	CIVIL	International Journal of Creative Research Thoughts (IJCRT)
17	A Document Weighted Approach For Gender And Age Prediction Based On Term	Dr. P.Vijaya Pal Reddy	CSE	International Journal of Engineering
18	Hybrid Approach For Message Polarity And Topic Based Message Polarity Sentiment Classification	Dr. P.Vijaya Pal Reddy	CSE	Pramana Research Journal
19	Eliminate Supererogatory Residual Data In Cloud Computing System	Dr. K Sunil Manohar Reddy	CSE	International Journal of Innovative Research in Science, Engineering and Technology
20	A Correlative Review On Performance Assessment Of Mac Protocols In Wsn	Dr. K Sunil Manohar Reddy	CSE	International Journal of Innovative Research in Science, Engineering and Technology
21	Cross Layered Strategy For Back Pressure Controlled Qos Aware Routing In Manets	Dr. K Sunil Manohar Reddy	CSE	Asian Journal of Computer Science And Information Technology
22	Cross Layered Strategy For Back Pressure Controlled Qos Aware	Dr. G. Shyama Chandra Prasad	CSE	Asian Journal of Computer Science

	Routing In Manets			And Information Technology
23	Explore The Potential Impact Of Big Data Challenges,Open Research Issues And Various Tools Associated	Dr. G. Shyama Chandra Prasad	CSE	International Journal of Innovative Research in Science, Engineering and Technology
24	Explore The Potential Impact Of Big Data Challenges,Open Research Issues And Various Tools Associated	V.Vinay Kumar	CSE	International Journal of Innovative Research in Science, Engineering and Technology
25	Explore The Potential Impact Of Big Data Challenges,Open Research Issues And Various Tools Associated	T,Aruna Jyothi	CSE	International Journal of Innovative Research in Science, Engineering and Technology
26	Analysing Various Face Recognition Techniques Using Neural Networks	Dr. K Sunil Manohar Reddy	CSE	International Journal of Creative Research Thoughts (IJCRT)
27	Sentiment Analysis On Product Reviews Using Big Data	Mrs.J Samatha	CSE	International Journal of Creative Research Thoughts (IJCRT)
28	Home Automation Using Mqtt Server	Mrs.K Bhagya Laxmi	CSE	International Journal of Creative Research Thoughts (IJCRT)
29	A An Hybrid Approach In Classification Of Telugu Sciences	Mrs.G.Pratibha	CSE	International Journal of Advanced research in computer science
30	lot And Cloud Computing In Health Care System	Mrs.B J Praveena	CSE	International Journal of Creative Research Thoughts (IJCRT)
31	Black Box Optimization For Information Retrieval Through Dynamic Parameter	V Vinay Kumar	CSE	International Journal of scientific research in computer science and engineering and information technology
32	Trust Evaluation Algorithm (Tea) To Identify Malicious Node In Manets	Mr.L. Raghavendar Raju	CSE	International Journal of Creative Research Thoughts (IJCRT)
33	A Comparative Analysis Of Routing Issues In Mobile Ad Hoc Networks (Manets)	Dr Vijaypal Reddy	CSE	International Journal of Creative Research Thoughts (IJCRT)
34	A Comparative Analysis Of Routing Issues In Mobile Ad Hoc Networks (Manets)	M Praveen Kumar	CSE	International Journal of Creative Research Thoughts (IJCRT)

35	A Comparative Analysis Of Routing Issues In Mobile Ad Hoc Networks (Manets)	Mr.L. Raghavendar Raju	CSE	International Journal of Creative Research Thoughts (IJCRT)
36	Quality Of Services (Qos) And Security Issues In Mobile Ad Hoc Networks (Manets) – A Review	Mr.L. Raghavendar Raju	CSE	World Wide Journal
37	Design And Implementation Of Area Efficient Interleaver For Mimo-Ofdm Systems	D.Nagaraju	ECE	The International Journal of Scientific Development and Research
38	A Survey On Quality Of Service (Qos) In Data Networks:Past,Present And Future	D.Nagaraju	ECE	The International Journal for Research Trends and Innovation
39	Pothole Detection System: 'Monitoring Road Surface Aberrations Using A Wireless Sensor Network	D.Nagaraju	ECE	The International Journal of Creative Research Thoughts(IJCRT)
40	Raspberry Pi Based Global Industrial Process Monitoring Through Wireless Communication	A.Narmada	ECE	The International Journal of Creative Research Thoughts(IJCRT)
41	Design And Implementation Of Area Efficient Interleaver For Mimo-Ofdm Systems	V Karunakar Reddy	ECE	International Journal of Science & Engineering Development Research(IJSDR)
42	A Survey On Quality Of Service (Qos) In Data Networks:Past,Present And Future	V Karunakar Reddy	ECE	International Journal for Research Trends and Innovation(IJRTI)
43	Discriminate Vertical Handoff Time Using Gra And Topsis Algorithms In Heterogeneous Networks By Effect Of Metrics	M.Naresh	ECE	Int. Journal of Engineering Research and Application (IJERA)
44	A Frame Work For Heterogeneous Wireless Networks Using Fast Vertical Handover	M.Naresh	ECE	The International Journal of Creative Research Thoughts(IJCRT)
45	Rtl Generation Using A High Performance Dif Algorithm Using 'C'	B.Indira Priyadarshini	ECE	The International Journal of Creative Research Thoughts(IJCRT)
46	Defects Detection In Printed Circuit Board Using Integrated Frame Work	B.Indira Priyadarshini	ECE	International Journal of Engineering Technology Science and Research

47	Defects Detection In Printed Circuit Board Using Integrated Frame Work	Dr. Pallavi Khare	ECE	International Journal of Engineering, Technology, Science and Research
48	A Review On Mixed Iris Spoofing Attacks Detection	Dr. Pallavi Khare	ECE	The International Journal of Creative Research Thoughts(IJCRT)
49	Rtl Generation Using A High Performance Dif Algorithm Using 'C'	Dr. Pallavi Khare	ECE	The International Journal of Creative Research Thoughts(IJCRT)
50	A Robust Weighted Fuzzy Local Information C-Means Clustering Algorithm For Image Segmentation	Dr. Pallavi Khare	ECE	JASC: Journal of Applied Science and Computations
51	Effective Food Grain Loss Reduction Technique Using Iot	Aruna Kokkula	ECE	International Journal of Creative Research Thoughts (IJCRT-2018)
52	Power Efficient Carry Select Adder	Aruna Kokkula	ECE	International Journal of Research (IJR-2017)
53	Transparent Audio Watermarking Using Fibonacci Series Using Image Encrytion	K.Vijetha	ECE	The International Journal of Creative Research Thoughts(IJCRT)
54	Effective Food Grain Loss Reduction Technique Using Iot	A S Keerthi Nayani	ECE	International Journal of Creative Research Thoughts (IJCRT-2018)
55	Power Efficient Carry Select Adder	A S Keerthi Nayani	ECE	International Journal of Research (IJR-2017)
56	A Frame Work For Heterogeneous Wireless Networks Using Fast Vertical Handover	A.Abhishek Reddy	ECE	International Journal of Creative Research Thoughts (IJCRT-2018)
57	Development Of A Matlab Simulation For Vehicle-To-Vehicle And Infrastructure Communication Based On Ieee 802.11P	P Sravani	ECE	International journal of research in advent technology
58	A Novel Svd-Based Watermarking Scheme Using Dwt.	Dr.M.Sushanth Babu	ECE	International Journal of Creative Research Thoughts (IJCRT-2018)
59	P-V Curve Method For Voltage Stability And Power Margin Studies	P.Kishor	EEE	International Journal of Engineering Science and

				Computing
60	P-V Curve Method For Voltage Stability And Power Margin Studies	M V Subramanyam	EEE	International Journal of Engineering Science and Computing
61	P-V Curve Method For Voltage Stability And Power Margin Studies	Dr. D Venumadhava Chary	EEE	International Journal on Recent and Innovation Trends in Computing and Communication
62	Gsm Technique Applied To Pre-Paid Energy Meter	P.Kishor	EEE	International Journal of Computer Science
63	Gsm Technique Applied To Pre-Paid Energy Meter	M.Subramanya m	EEE	International Journal of Computer Science
64	Gsm Technique Applied To Pre-Paid Energy Meter	D.V.M.Chary	EEE	International Journal of Computer Science
65	Development Of Remote Buttons In Android App (Bluetooth) To Control A Robo	M.Saritha	EEE	International Journal of Engineering Science and Computing
66	Development Of Remote Buttons In Android App (Bluetooth) To Control A Robo	Mrs.N.Kalpana	EEE	International Journal of Engineering Science and Computing
67	Simulation Of Five Level Diode Clamped Multilevel Inverter	P.Anil Kumar	EEE	International Journal on Recent and Innovation Trends in Computing and Communication
68	Simulation Of Five Level Diode Clamped Multilevel Inverter	K.Kartheek	EEE	International Journal on Recent and Innovation Trends in Computing and Communication
69	Simulation Of Five Level Diode Clamped Multilevel Inverter	B.Madhukar	EEE	International Journal on Recent and Innovation Trends in Computing and Communication
70	Spwm Techniques In Open Loop And Closed Loop Control Of Induction Motor	M V Subramanyam	EEE	International Journal of Computer Science
71	Spwm Techniques In Open Loop And Closed Loop Control Of Induction Motor	D.V.M.Chary	EEE	International Journal of Computer Science
72	Spwm Techniques In Open Loop And Closed Loop Control Of Induction Motor	P.Kishore	EEE	International Journal of Computer Science

73	Minimizing Harmonic Distortion In Multilevel Inverters Using Bacteria Foraging Algorithm	M.Praveen Reddy	EEE	International Journal on Recent and Innovation Trends in Computing and Communication
74	Minimizing Harmonic Distortion In Multilevel Inverters Using Bacteria Foraging Algorithm	K.Kartheek	EEE	International Journal on Recent and Innovation Trends in Computing and Communication
75	Minimizing Harmonic Distortion In Multilevel Inverters Using Bacteria Foraging Algorithm	M.Srinivas	EEE	International Journal on Recent and Innovation Trends in Computing and Communication
76	Single Phase Quasi-Z-Source Based Modified Cascaded Multilevel Inverter With Half-Bridge Cell	K.Kartheek	EEE	International Journal of Creative Research Thoughts (IJCRT)
77	Single Phase Quasi-Z-Source Based Modified Cascaded Multilevel Inverter With Half-Bridge Cell	P.Anil Kumar	EEE	International Journal of Creative Research Thoughts (IJCRT)
78	Single Phase Quasi-Z-Source Based Modified Cascaded Multilevel Inverter With Half-Bridge Cell	B.Madhukar	EEE	International Journal of Creative Research Thoughts (IJCRT)
79	Estimation Of Fuel Cost Parameters For Thermal Power Plants Using Lsenelder-Mead Local Search (Lse-Nm) Optimization	Dr.G.Ravindran ath	EEE	International Journal of Creative Research Thoughts (IJCRT)
80	A Novel Electric Vehicle Controlelectronic Differential-Strategy Using Five Phase Induction Motor	Dr.G.Ravindran ath	EEE	International Journal of Creative Research Thoughts (IJCRT)
81	Simulation Of Solar Pv Array Using Matlab/Simulink	M.Srinivas	EEE	International Journal of Creative Research Thoughts (IJCRT)
82	Simulation Of Solar Pv Array Using Matlab/Simulink	M.Praveen Kumar	EEE	International Journal of Creative Research Thoughts (IJCRT)
83	Spwm Techniques In Five Level Inverter	M.Subramanya m	EEE	International Journal of Creative Research Thoughts (IJCRT)
84	Spwm Techniques In Five Level Inverter	P.Kishore	EEE	International Journal of Creative Research Thoughts (IJCRT)
85	Spwm Techniques In Five Level Inverter	M.Srinivas	EEE	International Journal of Creative Research Thoughts (IJCRT)
86	An Experimental Study On The Mechanical Properties Of	Dr.D.Hanumant ha Rao	Mechanical	International Journal of Creative Research

	Thixoformed Components In Aluminum Alloys			Thoughts (IJCRT)
87	Multi Objective Optimization Of Process Parameters In Turning Of Ti-6Al-4V Alloy	Dr.D.Hanumant ha Rao	Mechanical	Materials Today: Proceedings
88	An Experimental Study On The Mechanical Properties Of Thixoformed Components In Aluminum Alloys	Dr.M.V.Kishore	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
89	Experimental Characterization Of Inconel-718 By Gtaw Process Using Different Shielding Gases	Mr.C.Venkatsh war Reddy	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
90	Study Of Voids Effect On Tensile Strength Of Carbon Fiber Reinforced Composites For Structural Applications	Mr.C.Venkatsh war Reddy	Mechanical	International Journal for Research in Applied Science and Engineering Technology
91	Structural Design And Analysis Of Composite Rocket Motor Casing (Crmc) For High Strength Applications	Mr.C.Venkatsh war Reddy	Mechanical	Journal of Emerging Technologies and Innovative Research
92	Trend Analysis-A Tool To Identify The Failure & Run Mode In Public Transport Buses	Mr.M.Krishna	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
93	Failure Criticality Analysis Using Fishikawa Diagram	Mr.M.Krishna	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
94	Factors And Mechanisms Responsible For Heat Transfer Enhancement Using Nano Fluid	Mr.V.Harinath	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
95	Extraction Of Liquid Hydrocarbon Fuel From Waste Plastic	Mr.V.Harinath	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
96	Severe Plastic Deformation And Its Methods	Ms.V.Poojitha	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
97	Heat Transfer Through Bonded And Coated Composite Fins	Mr. A. Kalyan Charan	Mechanical	International Journal of Advanced Technology in Engineering & Techonolgy
98	Extraction Of Liquid Hydrocarbon Fuel From Waste Plastic	Mr. A. Kalyan Charan	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
99	Thermal Analysis On Rectangular Plate Fin With Perforations Using Ansys	Mr. A. Kalyan Charan	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
100	Review Paper On Friction Stir Welding Of Various Materials And	Mr.P.Naveen Kishore	Mechanical	International Journal of Creative Research

	Aluminium Matrix Composites.			Thoughts (IJCRT)
101	Thermo Acoustic Refrigeration	Mr.P.Naveen Kishore	Mechanical	International Journal of Scientific Research
102	Review Paper On Processing Of Metal Matrix Composites & Its Properties.	Mr. T.Somasekhar	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
103	Thermo Acoustic Refrigeration	Mr. T.Somasekhar	Mechanical	International Journal of Scientific Research
104	Design And Analysis Of Thermo Mechanical Loading For A Turbine Housing Using Fea	Mr.S.Sampath	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
105	Extraction Of Liquid Hydrocarbon Fuel From Waste Plastic	Mr.M. Aditya Seshu	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
106	Review Paper On Processing Of Metal Matrix Composites & Its Properties.	Mr.P.Niteesh Kumar	Mechanical	International Journal of Creative Research Thoughts (IJCRT)
107	Computational Process To Study The Wave Propagation In A Non-Linear Medium By Quasilinearization	Dr. K. Sharath Babu	S&H	Institute of Physics Publishing (IOP)
108	Photoluminescence Studies Of Cd _{0.8} -Xpbxzn _{0.25} Semiconductor compounds	T Shekharam	S&H	Journal of Luminescence
109	Study Of Low Temperature Dc Conductivity On Coxzn _{1-x} Mixed Semiconductor Compounds	T.Shekharam	S&H	The International Journal of Creative Research Thoughts(IJCRT)
110	Influence Of Pb On Structure And Morphology Of Zn ₁ -Xpbxs Semiconductor Compound Prepared By Co-Precipitation Technique	T.Shekharam	S&H	The International Journal of Creative Research Thoughts(IJCRT)
111	Antimicrobial & Antifungal Activity Of Substituted 4-Arylidene 2-(Hydroxy Phenyl) Oxazol-5(4H)-Ones	Dr.Y.Aparna	S&H	The International Journal of Creative Research Thoughts(IJCRT)
112	Optimization Of Web Service Quality Through Goal Programming	Dr.M.Yuvaraju	S&H	The International Journal of Creative Research Thoughts(IJCRT)
113	Computatoanl Scheme By Galerkin Method For Two Point Boudary Value Problems By Quintic B-Splines Method	Dr. K. Sharath Babu	S&H	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College & IJCRT
114	Optimal Solution Of Linear Programming Problems With Fuzzy Variables	M.Ramesh	S&H	NTSET

Awards and Recognitions 2017-18

S.No	Name of the activity	Name of the Award/ recognition	Name of the Awarding government/ government recognised bodies
1	SPOC for local National Programme on Technology Enhanced Learning chapter	Active SPOC Award	National Programme on Technology Enhanced Learning- AICTE
2	National Cadet Corps Certificate 'B' Exam	Grade "A" Pass Certificate	National Cadet Corps office, Secunderabad
3	Blood Donation Camp	Certificate of Appreciation	Indian Red Cross Society Telangana State Branch
4	Volunteer Services	Certificate of Active Participation and Services	Cisco Networking Academy
5	SPOC for local National Programme on Technology Enhanced Learning chapter	Active SPOC Award	National Programme on Technology Enhanced Learning - AICTE
6	MTT/AP/EMC Society Joint Chapter	Services and Contributions	Institute of Electrical and Electronics Engineers Hyderabad

Books and Chapters 2017-18

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference
1	D.Nagaraju	-	Pothole Detection System: 'Monitoring Road Surface Aberrations Using a Wireless Sensor Network'	Proceedings of 1st National Conference on Trends in Science, Engineering & Technology (NTSET-2018)
2	Dr.Y.Aparna	-	Synthesis and antimicrobial activity of substituted 4-arylidene,2-(hydroxy phenyl) oxazol-5(4h)-ones	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
3	Dr.Y.Aparna	-	synthesis of novel imidazolones, their Antimicrobial Studies and molecular docking studies	Indian Council of Chemists
4	Dr.M.Yuvaraj	-	Optimization of web service quality control through Goal	National Conference On Trends In Science, Engineering &

			programming	Technology by Matrusri Engineering College
5	Dr.G.Ravindrana th	-	Graphical user interface load flow solution of radial distribution network	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
6	Dr.G.Ravindrana th	-	A Noval electric vechile control- Electronic differential-strategy using Five phase Induction Motor	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
7	P.Kishor	-	SPWM Techniques in five level inverters	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
8	M.Saritha	-	Modelling of SSSC to Enhance power system stability using MATLAB	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
9	P.Anil Kumar	-	Single phase quasi-Z-source modified cascaded multilevel inverter with half bridge cell	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
10	M V Subramanyam	-	SPWM techniques in five level inverters	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
11	M Srinivas Reddy	-	Simulation of solar PV Array Using MATLAB/SIMULINK	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
12	Mrs. N.Kalpana	-	Modelling of SSSC to Enhance power system stability using MATLAB	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
13	M.Praveen Reddy	-	Simulation of solar PV Array Using MATLAB/SIMULINK	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
14	Prof.G.Manohar	-	Optimum Design of Multi-Storied Building	National Conference on Trends in Science,

			against Blast Loads	Engineering & Technology (NTSET-2018)
15	P.V.S.Koteswar Rao	-	A Study on Recycled Bituminous Pavement Materials using Bitumen VG-30	National Conference on Trends in Science, Engineering & Technology (NTSET-2018)
16	G.Satyavathi	-	Impact Of Moisture Deficit Stress On Growth, Biomass And Yield Parameters Of Cluster Bean (CyamopsisTetragonoloba L.Taub.) Genotypes	National Conference on Trends in Science, Engineering & Technology (NTSET-2018)
17	S.Lokeswari	-	Study Of Concrete Using Ld Slag As Partial Replacement Of Coarse Aggregate	National Conference on Trends in Science, Engineering & Technology (NTSET-2018)
18	K.S.SugunaLeela	-	Outer Ring Road Traffic Analysis And Prediction	National Conference on Trends in Science, Engineering & Technology (NTSET-2018)
19	T.RajaRamanna	-	Manufacturing Of Elliptical Shape Concrete Hollow Bricks Using Granulated Blast Furnace Slag As A Fine Aggregate	National Conference on Trends in Science, Engineering & Technology (NTSET-2018)
20	P.Prashanth	-	Experimental Study On Geopolymer Concrete	National Conference on Trends in Science, Engineering & Technology (NTSET-2018)
21	M.Srividya	-	Numerical Modelling Of Contaminant Transport In Soil	National Conference on Trends in Science, Engineering & Technology (NTSET-2018)
22	Dr.M.V.Kishore	-	An Experimental Study On The Mechanical Properties Of Thixoformed Components in Aluminum Alloys	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
23	Mr. C. Venkateshwar Reddy	-	Experimental characterization of inconel- 718 by GTAW	National Conference On Trends In Science, Engineering &

			process using different shield gases	Technology by Matrusri Engineering College
24	Mr.M.Krishna	-	Failure Criticality Analysis using FishiKawa Diagram (A Case study of Dumpers at OCP, Ramagundam)	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
25	Mr.V.Harinath	-	Factors and mechanisms responsible for heat transfer enhancement using nano fluid	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
26	Mr. A. Kalyan Charan	-	Extraction of liquid hydrocarbon fuel from waste plastic	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
27	Mr. A. Kalyan Charan	-	Thermal Analysis on Rectangular Plate Fin with perforations using ANSYS	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
28	Mr.P.NaveenKishore	-	Review paper on friction stir welding of various materials and aluminium matrix composites	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
29	Mr.T.SomaSekhar	-	Review paper on processing of metal matrix composites & its properties.	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
30	Mr.S.Sampath	-	Design and Analysis of thermo mechanical loading for a turbine housing using FEA	National Conference On Trends In Science, Engineering & Technology by Matrusri Engineering College
31	Dr. P.Vijaya Pal Reddy	-	Nativity Language age and prediction using a document weighted Approach	National Conference On Trends In Science, Engineering & Technology
32	Dr. P. Hara Gopal Mani	-	Dynamic Evaluation of Embedded Systems	NTSET-2018
33	A.Narmada	-	Raspberry pi based global industrial process monitoring through wireless communication	NTSET-2018
34	Aruna kokkula	-	Effective food grain loss reduction technique	NTSET-2018

			using IOT	
35	Aruna kokkula	-	Design and implementation of All digital phase locked loop on FPGA	NTSET-2018
36	B.Indira Priyadarshini	-	RTL generation using a high performance DIF algorithm using 'C'	NTSET-2018
37	B.Indira Priyadarshini	-	A 64 bit MAC Unit Design using Reversible Logic gate and Vedic Multiplier	NTSET-2018,
38	B.Indira Priyadarshini	-	Improved Design of Low Power TPG using LP LFSR	NTSET-2018
39	B.Indira Priyadarshini	-	Defects Detection in Printed Circuit Board using Integrated frame work	4th International conference on Science, Technology & Management (ICSTM-2017)
40	Dr.Pallavi Khare	-	Defects Detection in Printed Circuit Board using Integrated	4th International conference on Science, Technology & Management (ICSTM-2017)
41	DR.M.Ramesh	-	Optimal solution of linear programming with Fuzzy variables	NTSET-2018
42	Aruna kokkula	-	High Speed Architecture for Orthogonal Code Convolution	International Conference on Intelligent Sustainable Systems (ICISS 2017)
43	Aruna kokkula	-	Performance comparison of weighted modulo $(2n+1)$ adder using different prefix structures	ICRTESSM-2017
44	A S Keerthi Nayani	-	Effective food grain loss reduction technique using IOT	NTSET-2018
45	A S Keerthi Nayani	-	Performance comparison of weighted modulo $(2n+1)$ adder using different prefix structures	ICRTESSM-2017
46	Dr. Pallavi Khare	-	A Review on Mixed IRIS Spoofing Attacks Detection	Proceedings of 1st National Conference on Trends in Science, Engineering & Technology (NTSET-2018)
47	Dr. Pallavi Khare	-	A Smart Integrated	Proceedings of 1st

			System for Bike riders : A Review	National Conference on Trends in Science, Engineering & Technology (NTSET-2018)
48	Mr.P.NaveenKishore	-	Thermo acoustic refrigeration	National Conference On "Innovative Approaches In Mechanical Engineering" by St.Martins Engineering College
49	K.Koteswara Rao	-	Investigation of linearly polarized RMPA embedded with 2D-EBG ground plane	International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)
50	Mr. P Ravindra	-	Survival prediction for titanic data using machine learning algorithms	Ist national conference on Trends in Science,Engineering and Technology NTSET 2018
51	Mrs.B J Praveena	-	Cloud computing and IoT in health care system	Ist national conference on Trends in Science,Engineering and Technology NTSET 2018
52	Mrs.G.Pratibha	-	Parsing sentiment in telugu language sentences	Ist national conference on Trends in Science,Engineering and Technology NTSET 2018
53	Dr. K Sunil Manohar Reddy	-	Analysing various face Recognition Techniques using Neural Networks	Ist national conference on Trends in Science,Engineering and Technology NTSET 2018
54	Dr. G. Shyama Chandra Prasad	-	Particle Swarm Optimization Methodology for Classification of Images	Ist national conference on Trends in Science,Engineering and Technology NTSET 2018
55	Dr. Pallavi Khare	Exploring the convergence of Big Data and the Internet of Tthings	Chapter: 08: Internet of Things for Smart Cities	-

56	Dr. G.Shyama Chandra Prasad	Get Ready for placements	-	Get Ready for placements
57	Dr. Pallavi Khare	Exploring the convergence of Big Data and the Internet of Things	Chapter 13: Data Mining for the Internet of Things	-

Faculty attended FDPs

In the academic year 2017-18, a total of 52 faculty have undergone various Professional Development Programmes like UGC –AICTE sponsored 1 week/ 2week FDPs at IITs, NITs & reputed organisations / certification courses like NPTEL ,COURSERA, SWAYAM , ARPIT / AICTE-ISTE sponsored STTPs & Refresher Courses etc.,

Financial Assistance to Faculty

In the academic year 2017-18, Teachers are provided with financial support in 91 activities to attend Conferences/workshops and towards membership fee of professional bodies.

Professional Development Activities for Teaching/Non Teaching Staff

In the academic year 2017-18, a total of 18 professional development /administrative training programs were organized by the institution for teaching and non-teaching staff.

Students' Achievements

Academics

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 2018.

Sno	Name of The Student	Branch	University Rank
1	Palakurthi Apurva Sri	EEE	I
2	Vinitha Kotla	ECE	II
3	Y. Sharath Chandra	CIVIL	III
4	Vadde Boina Mounika	ECE	VII
5	Kolipaka Sharath	CSE	X

Students' Results for the Academic Year 2017-18:

Dept	APPEARED	PASSED	DISTINCTION	I DIV	II DIV	PASS %
CIV	57	53	17	26	10	93
CSE	109	92	43	43	6	84
EEE	48	43	20	16	7	90
ECE	114	98	39	48	11	86
Mech	59	52	21	29	2	88

OVERALL PERCENTAGE %			
Passed	Distinction	First Class	Second Class
86%	41%	37%	8%

A total of 158 students have also enrolled for NPTEL courses and some of them have excelled in these by securing Elite-Gold, Elite-Silver medals and Elite scores.

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. Effectuating this, it creates and encourages its students to participate in various activities. Some of them are:

Team from CSE Dept. was selected for the final round of Smart India Hackathon 2018, organized by the Ministry of HRD in association with

AICTE, for their proposal “Common portal for information sharing among defense shipyard PSUs” under the Ministry of Defense - Mr.Saiteja Reddy, III yr CSE Dept. was the team leader and secured a rank in top ten.

Two teams from CSE Dept. were selected for the final round of SIH conducted by TASK. The first was “Explosive detection using smart surveillance” – Mr. Krishna Sai, II yr student and the second was “Over speeding vehicle” – Mr.U.Phanish, III yr CSE student.

Achievements in SAE State Level Convention Tier-2 events:

1.Reverse Engineering – Mr.Nikhil and Mr.Surya, III yr students from Mechanical Dept. won first prize.

2.Prototype Modeling – Mr.Nikhil, Mr.Surya and Mr.Bharat, all III yr students won third prize.

3.Process Planning – Mr.S.Sai Krishna, Mr.V.Prudhvi Raj, Mr.Radhe Shyam and Mr.Phani, all third year students from Mechanical Dept. won second prize.

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	EDP Programme On Lets Empower Entrepreneurship Organised By Department Of Mechanical Engineering along with Wadhwani Foundation.	23/09/2017	MECH -9 CIVIL – 34 CSE - 11
2	Semester Programme Of 30Hrs Duration, (Online Cum Interactive) Programme In Association With “Wadhwani Foundation”	Feb-March 2018	MECH – 33 CSE – 16 CIVIL – 03
(a)	Lesson 1: What Is Entrepreneurship? , Myths About Entrepreneurship	13/02/2018	MECH – 33 CSE – 16 CIVIL – 03

(b)	Lesson 2: Why Join E-Cell, Dream It , Do It.	20/02/2018	MECH – 33 CSE – 16 CIVIL – 03
(c)	Lesson 3: Success Stories Of Global & Indian Entrepreneurs	27/02/2018	MECH – 33 CSE – 16 CIVIL – 03
(d)	Lesson 4: Introduction To Entrepreneurship Styles	06/03/2018	MECH – 33 CSE – 16 CIVIL – 03
(e)	Lesson 5: Barriers To Communication, Body Language Speaks Louder Than Words. Lesson 6: Understanding Design Thinking Concept, Activity : Design Thinking – Myth Buster.	13/03/2018	MECH – 33 CSE – 16 CIVIL – 03
(f)	Lesson 7: Customer Profiling, Wowing Your Customer, Personal Selling, Show & Tell – Concept, Elevator Pitch Concept Lesson 8: Managing Risks and Learning from Failures Introduction To Risk & Resilience	20/03/2018	MECH – 33 CSE – 16 CIVIL - 03
3	Lesson 9: Class Debate : Why Do I Do, What I Do. SPARK E-Cell Competition On Ideation, Idea Pitching ,Disrupt. Competitions Were Held.	27/3/2018 & 28/03/2018	MECH – 33 CSE – 16 CIVIL - 03 Teams Winner / Runner up MECH – 3 WINNERS CIVIL – 1 RUNNER UP CSE – 1 WINNER & 2 RUNNER UP.
4	Guest Lecture By GM District Industries Centre R.R DistSri.J.Rajeshwar Reddy	04/04/2018	MECH – 35 CSE – 9 ECE – 12 CIVIL – 2

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, have secured admissions in postgraduate programs like MS, M Tech, ME, MBA, PGDCPM, etc.

Training & Placements

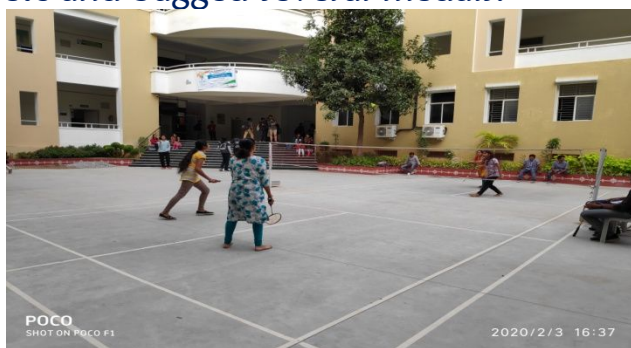
Students are consistently prepared to meet the challenging technical demands for both employability and to create employability. Matrusri is committed to continue the legacy of training its students from the time of its inception by assimilating several Technical certification programs like IT Essentials, 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 its students to participate in various games and sports and some of them enthusiastically participate in competitive events in Judo, Power Lifting, Weight Lifting, Basketball, Throwball, Badminton, Carroms etc and bagged several medals.





NCC

MECS students are encouraged to participate in NCC induction process held at various venues to get selected in NCC wings.

Clubs

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

MECS Alumni Meet

MECS Alumni Meet program of the college invites and welcomes the alumni every year to share their experiences in the campus and brings students, alumni and faculty on a single platform, to signify that there is always a new idea, a new way of thinking to bring change in the transformation for the best.

Utilizing the alumni base, the college annually organizes Alumni Meet which includes guest lectures, awareness sessions on the importance of self-upgradation and developing skills essential for the job market. The Alumni share their experiences with regard to the professional life with the budding engineers.

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 2018.

Thank you.