NEWSLETTER

2020-21





DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING MATURI VENKATA SUBBA RAO ENGINEERING COLLEGE

Nadergul (P.O), Hyderabad – 501510 (Sponsored by Matrusri Education Society) Affiliated to Osmania University The Department of Electrical and Electronics Engineering, was started in the year 1997. It offers one Under-Graduate programme (B.E. - EEE), Since the inception, the department has grown not only in terms of student and faculty strength, but also in improving the laboratory facilities for the teaching and research purposes. The department has state of the art equipment in all the 10 spacious laboratories and the management has spent over 1.5 Crores for establishing these labs.

Department is enriched with not only experienced, committed and highly qualified teaching staff but also well experienced non-teaching staff. The faculty members have strong sense of responsibility to provide the finest possible education for undergraduate students. Students are performing exceptionally very well in not only University examinations but also other competitive exams. Regular industry visits are conducted to enhance the knowledge of the students. Department has good placement track record.

DEPARTMENT VISION & MISSION:

VISION: To impart knowledge and prepare the students to become committed professionals with human values.

MISSION: The department strives to provide the engineering foundation as well as professional, innovative and leadership skills to the students through the following activities:

- ➤ Provide sound foundation in the areas of power systems, drives electronics and allied engineering areas.
- > To create an ambiance that provides personalized and supportive environment to make learning joyful and stimulating.
- > Encourage design and development of electrical systems promoting innovation and entrepreneurial skills.
- ➤ Inculcate communication skills, lifelong learning, ethics in professional practices and societal responsibility.

Program Educational Objectives of B.E. (Electrical and Electronics Engineering)

Electrical and Electronics Engineering is a broad discipline that incorporates skills and expertise in the areas which are essential to most sectors of industry.

Bachelors program in Electrical and Electronics Engineering in the college is aimed at preparing graduates who will

PEO 1	Demonstrate technical competence in identifying, formulating, analyzing, and creating Electrical engineering solutions			
PEO 2	Emerge as competent technologist, professionals in electrical industry, government, academia, research, entrepreneurial pursuit and consulting firms.			
PEO 3	Render the needs of the society as morally responsible Electrical and Electronics Engineer with proven expertise.			

PROGRAM OUTCOMES & PROGRAM SPECIFIC OUTCOMES

Program Outcomes (POs)

- 1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. **Design** / **Development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

- 6. **The engineer and society:** apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs) for B.E (Electrical Engineering)

- 1. Graduate will be able to demonstrate an ability to analyse, design and provide an engineering solution in the areas related to Electrical and Electronics Engineering.
- 2. Graduate will demonstrate an ability to design, simulate and develop electrical and electronic products using Electronic Design Automation (EDA) tools.

I. EVENTS ATTENDED:

Training/STTP/Faculty Development Programs(FDP):

Mr. N. Ravi, Mr. B. RamaKrishna

Have attended a workshop "MATLAB and its applications in Electrical Engineering" organised by EEE department SVCE, Tirupati held during 20th to 24th July 2020.

> Dr. E. V. C. Sekhara Rao

Has participated in a one-week STTP phase I and phase II on "Trends and challenges of Hybrid electric drive utilities in transport sector" organised by CBIT, Hyderabad during 3rd to 8th August 2020 and 2nd to 7th November 2020.

Mr. P.B. GuruPrasanna

Has participated in a faculty development program "Power electronic application in smart grid & Electric vehicle" organised by Sri Rama Krishna Engineering college from 3rd to 7th August 2020.

> Dr. D. HariKrishna, Mrs. G. Sirisha

Have attended a online training program on "Power quality and Energy auditing" organised by The National Small Industries Corporation Ltd. Technical Services Centre during 3rd to 17th August 2020.

Mr. N. Ravi, Mr. B. Rama Krishna

Have participated in a one-week online faculty development program "Emerging techniques in smart power system: challenges & solutions" organised by NIT Warangal during 24th to 28th August 2020.

Mrs. G. Sirisha

Has participated in a five-day faculty development program on "Future energy trends and its impact "bySJB Institute of Technology, Kengeri, Bengaluru held during 24th to 28th August 2020.

> Dr. E. V. C. Sekhara Rao

Has participated in a One-week online faculty development program "Blockchain technology in power system applications" organized by EEE department of SNIST, Hyderabad during 31st August 2020 to 4th September 2020.

Mr. Y. L. N. Rao, Mr. P. B. Guru Prasanna, Mr. V. Raghu Krishna, Mrs. G. Sirisha, Mr. N. Bharat Mohan, Mr. B. RamaKrishna, Mrs. D. Sai Prasanna

Have participated in a one-week faculty development program "Energy, Management, Design & Auditing of Solar energy" conducted by Department of Mechanical, Electrical & Automobile Engineering Maturi Venkata Subba Rao Engineering College in association with Engineering Staff college of India (ESCI) held during 8th to 12th September 2020.

Dr. T. ChandraSekhar

Has attended a one-week STTP "Automotive technology for a sustainable future" organised by department of EEE, GRIET during 7th to 12th September 2020.

> Mr. P. B. Guru Prasanna

Has participated in a four-day online faculty development program "Challenges and opportunities of Energy & Sensor applications" organised by JNTUA during 23rd to 26th September 2020.

> Mr. M. Raveendra Reddy

Has participated in a one-week STTP "Recent developments and entrepreneurship in sustainable green energy technologies and smart grid" Series B & C organised by BVRIT, Hyderabad during 21st to 26th September 2020 and 19th to 24th October 2020.

Dr. D. HariKrishna, Mr. N. Bharat Mohan, Mr. B. Rama Krishna

Have participated in a one-week STTP on "Hands on training in Artificial intelligence and optimization technique applications for additional lab experiments, mini, major projects for Engineering students" organised by Vidya Jyothi institute of technology during 9th to 16th November 2020.

> Dr.T.Chandrasekhar

Has attended a one-week AICTE sponsored STTP on "Advancements in power electronics to renewable energy sources to E- Mobility applications (Phase II)" organised by department of EEE, Anurag University from 16th to 21st November 2020.

Dr. D. V. M. Chary, Mrs. G. Sirisha, Mrs. D. Sai Prasanna

Have attended a on day faculty development program on "INNOVISM- An Innovative Idea" Development organised by MVSR- Institution Innovation Council (IIC) on 20th November 2020.

> Dr. D. HariKrishna, Mrs. G. Sirisha

Has participated in a One day Online Industrial Training Programme "Energy Conservation" by Maturi Venkata Subba Rao (MVSR) Engineering College in association with Petroleum Conservation Research Association (PCRA) on 21st November 2020.

> Mrs. G. Sirisha

Has participated in faculty development program on "Research opportunities through MATLAB" organised by VNR Vignana Jyothi institute of engineering & technology, Hyderabad during 25th to 28th November 2020.

Mr. V. Raghu Krishna

Has attended a one week faculty development program on "Renewable energy application in smart grid , micro grid and EVs" organised by GMR institute of technology, Rajam on 7th December 2020.

Dr.E.V.C. Sekhara Rao, Mrs. D. Sai Prasanna

Have attended a one-week AICTE sponsored STTP on "Advancements in power electronics to renewable energy sources to E- Mobility applications(Phase III)" organised by department of EEE, Anurag University from 7th to 12th December 2020.

Mr. P. V. V. Raghava Sharma, Mrs. D. Sai Prasanna

Has participated in a two-week faculty development program on "8051 Microcontroller & Industrial automation" conducted by NITTTR, Chennai during 7th to 18th December 2020.

Mrs. D. Sai Prasanna

Has attended a one-weekSTTP " Electric Vehicle Battery Charging System with Renewable Energy Sources (EVBCS)" organized by Department of EEE Kakatiya Institute of Technology & sciences, Warangal during 14th to 19thDecember 2020.

> Mrs. G. Sirisha

Has attended a one-day faculty development program on "Process development for on board charging application for electric vehicle using dual active bridge DC-DC converter" organised by IEEE MVSR PES Student Chapter in collaboration with EESA and Institution's Innovation Council on 21st December 2020.

Workshops:

> Dr. E.V. C. Sekhara Rao

Has attended a two-day online work shop on "Reliability and its applications to Power systems & Drives" organized by the University College of Engineering (Autonomous), Osmania University held during 26th to 27th June 2020.

> Dr. E.V. C. Sekhara Rao

Has attended a two-day online work shop on "Reliability and its applications to Power systems & Drives" organized by the University College of Engineering (Autonomous), Osmania University held during 26th to 27th June 2020.

Mr. P.B. Guru Prasanna, Mrs. G. Sirisha

Has attended a workshop "W4- assessment of COs, POs & PSOs" organised by NITTTR Bhopal from 21st to 23rd July 2020.

> Dr. E.V. C. Sekhara Rao, Dr. T. Chandra Sekhar

Have attended a three day workshop "Outcome based Education and NBA Accreditation" organized by the University College of Engineering (Autonomous), Osmania University held during 12th to 14thAugust 2020.

> Dr. D. HariKrishna

Has attended a one week workshop on "Hands on Python" organised by EESA, MVSREC in association with Spoken Tutorial during 17th to 23rd August 2020.

> Dr. E.V. C. Sekhara Rao

Has attended a workshop "Awareness workshop NIRF India rankings- higher education" organised by Institute for Academic Excellence in collaboration with Collegiate Education & Technical Education Department, Govt. of Telangana during 18th to 19th January 2021.

> Mr. M. Raveendra Reddy

Has attended a workshop "Recent Trends in Power System" organised by National Institute of Sikkim from 23rd to 27th February 2021.

Mr. Y. L. N. Rao, Mr. P. B. Guru Prasanna, Mr. N. Bharat Mohan, Mr. B. Rama Krishna

Have attended a workshop "Latex" organised by IEEE MVSR PES Student Chapter in collaboration with EESA held during 26th April to 2nd May 2021.

Mr. G. Satyanarayana

Has attended a workshop "Transformation through NAAC Accreditation process" organised by IAE from 21^{st} to 22^{nd} June 2021.

Conferences:

Dr. D. HariKrishna

Has attended an international conference "Student membership and leadership summit" jointly organized by IEEE BUET SB, IEEE Bangladesh Section, IEEE R10 SAC during 20th to 21th August 2020.

> Mrs. G. Sirisha

Has attended an international conference "International Virtual conference on advances in functional materials-2020" organised by Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha during 26th to 28th August 2020.

> Dr. D. HariKrishna

Has attended an international conference "AHWVCV20 with the theme 'protect your health leveraging advanced technology'" organized by ALL HYDERABAD COMPUTER SOCIETY WOMEN IN ENGINEERING VIRTUAL CONGRESS 2020 held on 6thOctober 2020.

> Dr. D. Venu Madhava Chary

Has attended a conference on "Artificial intelligence in electrical engineering" organised by Organization of Science and Innovative Engineering and Technology Chennai, India in association with Shreyas institute of technology during 10th & 11th April 2021.

Seminars:

> Mr. G. Sirisha

Has attended a webinar on "Best practices in design & installation of solar PV systems" organised by MGIT, Hyderabad on 15th July 2020.

> Dr. D. Venu Madhava Chary

Has attended a webinar on "Development and use of rubrics for effective assessment" organised by NITTTR Bhopal from 27th to 28th July 2020.

Mr. P. B. Guru Prasanna

Has attended a webinar on "Flood risk management and assessment: an overview" organised by MVSREC on 6th August 2020.

> Dr. D. Venu Madhava Chary, Mr.P. B. GuruPrasanna

Has attended a webinar on "Information required for student performance" organised by NITTTR Bhopal from 6th August 2020.

Mr. P. B. Guru Prasanna

Has attended a webinar on "Perpetual pavements for sustainable infrastructure" organised by Maturi Venkata Subba Rao (M.V.S.R) Engineering College on 7th August 2020.

> Dr. D. Venu Madhava Chary

Has attended a webinar on "Compiling faculty information and contribution" organised by NITTTR Bhopal on 13th August 2020.

> Dr. D. Venu Madhava Chary

Has attended a webinar on "Continuous improvement, institutional governance and support system" organised by NITTTR Bhopal on 18th August 2020.

> Dr. D. Venu Madhava Chary

Has attended a webinar on "Planning for online instruction" organised by NITTTR Bhopal from 21st August 2020.

> Dr. D. Venu Madhava Chary, Mr. G. Satyanarayana, Mrs. G. Sirisha, Mrs. D. Sai Prasanna

Has attended a webinar on "Prepare program and course articulation matrices" organised by NITTTR Bhopal from 23rd August 2020.

> Dr. D. Venu Madhava Chary, Mrs. G. Sirisha

Has attended a webinar on "Planning required during visit and after visit" organised by NITTTR Bhopal from 25th August 2020.

> Mr. G. Sirisha

Has attended a webinar on "Action plan to prepare institute for accreditation" organised by NITTTR Bhopal on 27^{th} August 2020.

Dr. D. HariKrishna, Mr. P. B. GuruPrasanna, Mrs. G. Sirisha, Mrs. D. Sai Prasanna

Have attended a webinar on "Hybrid renewable energy integration to grid" organised by IEEE MVSR PES Student Chapter in collaboration with MVSR Alumni Association held on 16th September 2020.

> Dr. D. Hari Krishna

Has attended a three day online higher education conclave on "National education policy-2020" Organized by IEEE Guntur Sub Section in collaboration with IEEE Education Society Chapter, Hyderabad Section from 15th to 17th October 2020.

Dr. D. HariKrishna, Mrs. G. Sirisha, Mrs. D. Sai Prasanna

Has attended a webinar on "Scope of innovations using Esim software" organised by IEEE MVSR PES student chapter in collaboration with Spoken tutorials and Institution's Innovation Council on 17th November 2020.

> Dr. D. Venu Madhava Chary

Has attended a webinar on "Designing high quality rubrics" organised by MVSREC on 27th March 2021.

Refresher courses:

Mr. P. B. Guru Prasanna

Has attended a refresher course on "Research Methodology: research methods, ethics, skills, writing &communication" organised by UGC- New Delhi during 19th August 2020 to 1st September 2020.

II. Events Organised

Lectures:

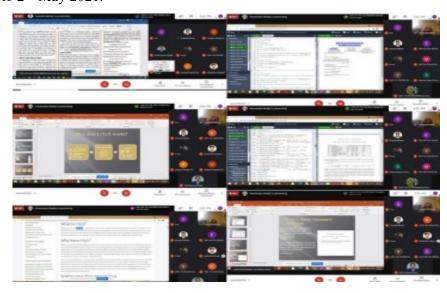
A seminar was conducted by Institute's innovation council on ""Process development of Producing clean drinking water from the moisture in the air using wind turbine" in association with EEE department, Maturi Venkata Subba Rao Engineering College on 17th December 2020.

- Mr. M. Raveendra Reddy, Assistant Professor, EEEDept., Maturi Venkata Subba Rao Engineering Collegehas delivered a lecture on "Resilient renewable energy sources" organised by IEEE -PES in association with EEE Department, Maturi Venkata Subba Rao (MVSR) Engineering College on 5th April 2021.
- Mr. P. B. GuruPrasanna, Assistant Professor, EEEDept., Maturi Venkata Subba Rao Engineering College has delivered a lecture on "Clean energy and smart grid technology" organised by IEEE -PES in association with EEE Department, Maturi Venkata Subba Rao (MVSR) Engineering College on 8th April 2021.
- Mr. N. Bharat Mohan, Assistant Professor, EEEDept., Maturi Venkata Subba Rao Engineering College has delivered a lecture on "Latex" organised by IEEE -PES in association with EEE Department, Maturi Venkata Subba Rao (MVSR) Engineering College on 26th April 2021.
- ➤ Dr. P.V.V.RamaRao, Professor, EEEDept., Maturi Venkata Subba Rao Engineering Collegehas delivered a lecture on "Latex" organised by IEEE -PES in association with EEE Department, Maturi Venkata Subba Rao (MVSR) Engineering College on 27th April 2021.
- Mr.Srinivaslu Ala, M.Tech, Pantech has delivered a lecture on "applications of AI & Machine learning in electrical & electronics engineering" organised by M. Raveendra Reddy, Assistant Professor & D.SaiPrasanna, Assistant Professor, EEED, Maturi Venkata Subba Rao Engineering College in association with Pantech on 5th May 2021.
- Mr. Sreeram Tharun, Applications engineer, TechFluent, Hyderabad, has delivered a lecture on PCB designing and graphical system design using NI labview" organised by M.Raveendra Reddy ,Assistant Professor & V.V.Satyanaryana, Assistant Professor, EEED, Maturi Venkata Subba Rao Engineering College in association with TechFluent on 7th May 2021.

Workshops:

Student association EESA has conducted at two-week workshop on PYTHON
 MATLAB software from 11th January 2021.

- A technical fest "TECHNOVANZA 2K21" was organised by Dr.D.Hari Krishna, Associate Professor,Mr.Y.Laxmi Narasimha Rao, Assistant Professor,EEE Department, Maturi Venkata Subba Rao Engineering College in association with IEEE-PES on 24th April 2021.
- A one-week workshop on "Latex" was organised by Mr. N.Bharat Mohan, Assistant Professor, EEE Department, Maturi Venkata Subba Rao Engineering College in association with Spoken Tutorial IIT Bombay & IEEE PESheld during 26th April to 2nd May 2021.



Snapshots from Day1 of Latex workshop

Faculty Development programs:

- A faculty development program on "Energy Auditing, Management and Design of Solar Energy System" was organised by departments of Mechanical, Electrical and Automobile of Maturi Venkata Subba Rao Engineering College in association with Energy Staff College of India held during 8th to 12th Nov, 2020.
- A faculty development program on "Industrial Training Programme on "Energy Conservation" was organised by EEE department, Maturi Venkata Subba Rao Engineering College in association with Petroleum Conservation Research Association (PCRA) held on 21st Nov, 2020.



- \triangleright Energy conservation week was organised by energy savers club, EEE Department during 14th to 20th December 2020.
- An "Orphanage reach out" program was organised by IEEE MVSR Student Branch/ Safe Charitable Foundation on the occasion of 75th Independence Day.
- A "Clothes distribution drive" was organised by IEEE MVSR SB WIE Affinity Group & Street Cause under helping hands on 17th August 2021.

III. Honour's/Awards received by Staff:

- ➤ Dr. E. V. C. Sekhara Rao has received Best Faculty Award by EETCRS by Research wing for Excellence in Professional Educational Industry presented by Education expo on 18th October 2020.
- ➤ Dr. D. HariKrishna has received Outstanding Branch Counsellor Award 2020 by IEEE on 21st October 2020
- ➤ Dr. D. Hari Krishna has received "Outstanding student branch counsellor award 2020" in recognition and appreciation of valued services and contribution granted on general body meeting held on January 24th 2021.
- ➤ IEEE PES Student chapter has received "Outstanding student branch chapter award 2020"in recognition and appreciation of valued services and contribution granted on general body meeting held on January 24th 2021.
- ➤ IEEE PES Student chapter has received "Outstanding student branch award 2020"in recognition and appreciation of valued services and contribution granted on general body meeting held on January 24th 2021.

IV. Journal/Book Publications: Journals:

S. No.	Name of the Faculty	Title of the Paper	Name of Journal	
1	Y.Laxmi Narsimha Rao	Cascaded H-Bridge Three level inverter with SVPWM using sample reference phase voltage	EJCM	
2	Dr. D. Hari Krishna	Scope and application of Solar Thermal Energy in India- A review	International Journal of All Research Education & Scientific Methods, (IJARESM), Volume 9, Issue 1, January - 2021.	
3	Dr. D. Hari Krishna	Improvement in mitigation techiques for power quality problems	International Research Journal of Engineering and Technology (IRJET), Volume 7 Issue 11 Nov 2020	

Conferences:

S. No.	Name of the Faculty	Title of the Paper	Name of Conference
1	Y Laxmi Narsimha Rao	Intelligent controllers for direct self-control SVPWM using sample orientation phase voltages	5th international conference on inventive computational technologies
2	Y Laxmi Narsimha Rao, P.V.V.Raghava Sharma	Direct self-control SVPWM using imaginary reference phase voltages for ISG controller	ICMDRSE 2020
3	Raveendra Reddy Medam	Techno-Economic Analysis of Hybrid Renewable Energy based Community Microgrid	2021 IEEE Mysore Sub Section International Conference (MysuruCon)

Books:

S.No	Name of the Author (Faculty)	Title	Publisher	Book/Book Chapter
1	Raveendra Reddy Medam	Residential Micro grids and Rural Electrifications	Elsevier	Electrical safety for residential and rural microgrids

V. Student's academic merits {OU Ranks, GATE Ranks, etc}

O.U Rank List from MVSREC, EEE Dept.

S.NO.	NAME OF THE STUDENT	ROLL NUMBER	RANK
1	VADAKATTU NAVYA SRI	2451-17-734-005	I rank
2	ARCHANA	2451-17-734-322	II rank
3.	T GEETHAMRUTHA	2451-17-734-032	IV rank
4.	B NIKITHA REDDY	2451-17-734-062	V rank
5.	HARITHA DHANLALJI PRAMAR	2451-17-734-065	VI rank
6.	SURA VAMSHIKA	2451-17-734-313	VII rank
7.	E NAVYA	2451-17-734-021	VIII rank
8.	D UMAKANTH	2451-17-734-009	IX rank
9.	G PRATEEKA	2451-17-734-004	X rank

GATE Rank List from MVSREC, EEE Dept.

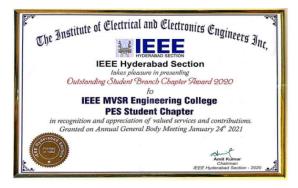
S.NO	NAME OF THE STUDENT	ROLL NUMBER	GATERANK (2020-21)
1.	V NAVYASRI	2451-17-734-005	2331
2.	D UMAKANTH	2451-17-734-009	5013
3.	N KARTEEK	2451-17-734-010	5639
4.	J VIKAS KUMAR	2451-17-734-072	8389
5.	S PRADYOTH	2451-17-734-064	11456
6.	MAHESH CHITYALA	2451-17-734-317	11456
7.	R GAYATHRI BAI	2451-17-734-075	13493
8.	S YASHWANTH KUMAR	2451-17-734-095	20912

Placements: Student placed in different companies

ACCENTURE	14
CAPGEMINI	3
COGNIZANT GENC	22
INFOSYS	3
TCS	5
UNSCHOOL	1
WIPRO	1

VI. Student Achievements:

- ➤ K. Naga Seshu has won IEEE Region 10 Young Professionals Career and Leadership Aid Program CLAP 2021.
- ➤ T Snigdha has been shortlisted to participate in the IEEE Region 10 Young Professionals Career and Leadership Aid Program CLAP 2021.
- Ms. T Snigdha and Mr.G. Surya Teja were selected as PES Ambassadors for the IEEE PES DAY 2021.





Outstanding student branch chapter award 2020

Outstanding student Branch award 2020



Outstanding student branch counsellor award 2020



Distributing clothes across poor in the society



Orphanage reach out mission





Editor: Mr. C. V. Gopala Krishna Rao

Co-ordinators: Mrs. D. Sai Prasanna

Student Co-ordinators: V Navya Sri, B Nikitha Reddy,

Haritha Dhanlalji Parmar, D Umakanth



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING M.V.S.R. ENGINEERING COLLEGE

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