

# **NEWS LETTER**

**2016-2017**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**M.V.S.R. ENGINEERING COLLEGE**

**Nadergul (P.O), Hyderabad – 501510**

**(Sponsored by Matrusri Educaon 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:**

- 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 engineering solutions including multi-disciplinary technical areas
PEO 2	Continuously enhance their skills through higher education or research to emerge as competent technologist, educators or professionals.
PEO 3	Advance in their careers as successful professionals demonstrating ethical and societal responsibilities.

### 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 modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

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 analyze, design and provide an engineering solution in the areas related to Electric Drives/ Control and Power systems.
2. Graduate will demonstrate an ability to design, simulate and develop electrical and electronic products using Electronic Design Automation (EDA) tools.

#### **Faculty Development Programs (FDP):**

##### **Workshops:**

##### **Mr.I .NarasimhaSwamy**

- Attended 3 day “Residential Leadership Workshop for Young Employees and Entrepreneurs” from 8<sup>th</sup> July to 10<sup>th</sup> July, 2016 at Hotel Katria, Hyderabad.

##### **Dr.D. Hari Krishna, Dr.T .Chandrashekar, Mr. HarshavardhanLakkaraju,**

##### **Mr.S .Shyam Mohan, Mr. P. V. V. Raghava Sharma**

- Participated in “Two-day Workshop on Entrepreneurship” organised by Entrepreneurship Development Cell, MVSR Engineering College, Hyderabad on 29<sup>th</sup> July & 30<sup>th</sup> July, 2016.

**Mr.S. Shyam Mohan, Mr. P. V. V. Raghava Sharma**

- Participated in a two day workshop on “Electrical Simulation Using Multisim” conducted by department of EEE at VignanaBharathi Institute of Technology, Aushapur, Ghatkesar on 12<sup>th</sup> and 13<sup>th</sup> August, 2016.

**Mr. I. NarasimhaSwamy**

- Participated in the 3-Day Workshop on “Human Values and Professional Ethics” held at IIIT, Hyderabad from 18<sup>th</sup> to 20<sup>th</sup> August, 2016.

**Dr.D. Hari Krishna**

- Has participated in “Quality Initiatives In Outcome Based Technical Education” organized jointly by IEEE Hyderabad Section, IEEE education society and Matrusri Engg College, Hyderabad from 1<sup>st</sup> to 3<sup>rd</sup> September, 2016.

**Mr. G. Satyanarayana, Mr. C. V.G.K. Rao**

- Has participated in the two-day workshop on “Power Quality – Harmonic Analysis for Power Systems” conducted by Department of Electrical Engineering University College of Engineering(A), Osmania University, Hyderabad during 19<sup>th</sup>& 20<sup>th</sup> September,2016, for 16 hours under Technical Education Quality Improvement Programme (TEQUIP-II).

**Dr. K. Brahmanandam,**

- Has participated in “Two Day Workshop on Internet of Things” organized by Dept. of Information Technology, MVSR Engg. College, Hyd. on 27<sup>th</sup>& 28<sup>th</sup> September, 2016. Attended the seminar on “Safe Wiring Practices” organized by International Copper Association India on 23<sup>rd</sup> October 2016. Place: Rasoolpura, Secunderabad.

**Dr. K. Brahmanandam, Mr. C. V.G.K. Rao, Dr.D.Hari Krishna, Dr.T.Chandrashekar, Mr. N. Ravi, Mr. P. B. Guruprasanna, Mr.S.Shyam Mohan, Mr. Y. L. N. Rao, Mr. P. V. V. Raghava Sharma, Mr. G. Satyanarayana,Mr. V. V. SatyanarayaAkula, Mr. V. Raghu Krishna, Mr.HarshavardhanLakkaraju.**

- Has participated in” One Week Faculty Development Program on Signal Processing Techniques” organized by the ECE Department of M.V.S.R.Engineering College, held from 15<sup>th</sup> to 19<sup>th</sup> November, 2016.

**Mr. I. Narasimha Swamy**

- Has participated in the 3-Day Advanced (Level-2) Workshop on “Human Values and Professional Ethics” organized by Human Values Cell from 24<sup>th</sup> to 26<sup>th</sup> November, 2016 held at International Institute of Information Technology, Hyderabad.

**Mr. C. V.G.K. Rao, Dr.D. Hari Krishna**

- Participated in one day “Awareness Workshop on Outcome Based Education and Accreditation” organized by the University College of Engg. (A), Osmania University, Hyderabad in association with National Board of Accreditation (NBA), New Delhi, India held on 18<sup>th</sup> December, 2016.

**Dr.D. Hari Krishna, Dr.T. Chandrashekar, Mr. N. S. R. Krishna, Mr. S. Shyam Mohan**

- Has participated in “Two Day National Seminar on Turbo-Machinery & Electrical Equipment” jointly organized by the Department of EEE & Mechanical Engg. In M.V.S.R. Engineering College, held on 21<sup>st</sup> & 22<sup>nd</sup> December, 2016.

**Mr. G. Satyanarayana, Mr. V. V. Satyanaraya Akula**

- Has participated one day MAT LAB EXPO 2017 on 27<sup>th</sup> April 2017, at Novotel Hi-tech Expo.

**Mr. V. V. Satyanaraya Akula**

- Has attended Free awareness program on Automation on 29<sup>th</sup> June, 2017, at the National Small Industries Corporation Limited (a Govt. of India Enterprise) Technical Services Centre, Kushaiguda, ECIL PO, Hyderabad.

**II. Events Organised:****Fests:**

1. Energy Day was organized by Electrical Engineering Students Association (EESA) on 17<sup>th</sup> September 2016.



Mr C.V.G.K Rao was addressing the gathering on Energy Day



2. Two-day student Technical Fest WIDYOUTH-2K17 was organized by Electrical Engineering Students Association (EESA) on 17<sup>th</sup> to 18<sup>th</sup> March, 2017.



Project Expo by students



Dr.G.Ravindranath Receiving the memento from Dr. V. Chandra Shekar, Principal.



Students performing Flash mob



Signature Day Celebration for EEE





Farewell for EEE Batch 13-17

3. Biennial National Cultural Fest SANGAMAM-2K17 was organized by M.V.S.R. Engg College, Hyderabad on 19<sup>th</sup> to 21<sup>th</sup> April, 2017.



Faculty & Students on Desi Day

#### Lectures:

1. A Lecture on “How to write research papers” by Mrs Dr .Shanthi on Women’s Day Celebration was organized by IEEE MVSRSB on 6<sup>th</sup> to 8<sup>th</sup> March 2017.



Dr. Shanthi Delivering her speech

2. Two-day national seminar on Turbo-Machinery and Electrical Equipment was organized by IEEE SB at M.V.S.R Engg College, Hyderabad on 21<sup>st</sup> to 22<sup>nd</sup> December 2016.



Dr. V.Kama Raju delivering lecture in Turbo machinery & Electrical Equipment workshop.

### **Workshops:**

1. Two-day workshop on MATLAB by Mr. Rohan Kumar from Ritusha Consultants Pvt. Ltd., Noida was organized by IEEE-Power and Energy Society at M.V.S.R. Engg College, Hyderabad on 16<sup>th</sup> to 17<sup>th</sup> February 2017.

### **Industrial Visits:**

1. One day Industrial visit to Electrical Loco Shed at Lalaguda, Secunderabad on 20-01-2017.



Faculty and students at Secunderabad Loco Shed.

2. Faculty of EEE Department visited Nagarjuna Sagar power station on 23-10-2016.



### Other Activities:

#### Ayudha Puja at Department:

Ayudha Puja is an integral part of the Navaratri festival, a Hindu festival which is traditionally celebrated in India. It is also called “Astra Puja” in simple terms, it means “Worship of Implements”.



**IV Journal/Book Publications:**

S.No	Name of the Faculty	Topic name	Journal
1	Dr.D.V.M.Chary Professor	“PV Curve method for voltage stability and power margin Studies	International Journal of Engg Science and Computing, Issue No.5, Volume No.7,2017
2	Mr.C.V.G.K.Rao Associate Professor	“An Approach to Locate Site of Renewable Energy Source (R&D) and Application of Big Bang Optimization to Size the R & D”	International Journal of Engineering and Applied Sciences, Published in IJEAS Volume 4 Issue 6 (June 2017)
3	Dr.T.ChandraShekar Associate Professor	“Adaptive tuning algorithm for single phase Z source inverter”	IET Power Electronics, Issue no 3, Volume 10,2017

**VI. Student’s academic merits {OU Ranks, GATE Ranks, etc}**

O.U Rank List from MVSREC, EEE Dept.

Name of the Student	H.T.No	Marks Secured	Rank
P.Prem Kumar	245113734080	4640	VI
B.R.Swetha	245113734061	4607	VII
C.V.S.Anirudh	245113734035	4597	IX

**Placements:**

Student placed in different companies:

Accenture	-	39
Wipro	-	07
Cognizant	-	17
Infosys	-	15
Genpact	-	01
Grow Controls	-	01

**Internships:**

1. S.Durga, J.KavyaSree, M.Mounika
  - Attended internship training from 20-06-2016 to 02-07-2016 on “Manufacturing of Turbo Generators” at BHEL, Ramachandrapuram, Hyderabad.
2. P.Priyanka, T.SreeChandana, P.NagaSree, Pravallika, Ch,Srilaxmi, G.Chandana.
  - Attended internship training from 16-06-2016 to 28-06-2016 on “Manufacturing of Turbo Generators” at BHEL, Ramachandrapuram, Hyderabad.
3. G.Rohit,
  - Attended internship training from 01-07-2016 to 15-07-2016 on “Study of Turbo Generators” at BHEL, Ramachandrapuram, Hyderabad.
4. K.SoumithYadav
  - Attended internship training from 17-12-2016 to 31-12-2016 on “Manufacturing Process of Turbo Generators” at BHEL, Ramachandrapuram, Hyderabad.
5. R.Harish
  - Attended internship training from 20-12-2016 to 30-12-2016 on “ Turbo Generators” at BHEL, Ramachandrapuram, Hyderabad.
6. Y.Preetham
  - Attended internship training from 12-05-2017 to 25-05-2017 on “Manufacturing and Performance testing of Turbo Generators” at BHEL, Ramachandrapuram, Hyderabad.
7. J.Rajeshwar, Ch.Aravindteja, A.Nithin, C.Rajesh, U.Aditya, J.Harish
  - Attended internship training from 17-12-2016 to 31-01-2017 on “Study of Manufacturing Steam Turbines” at BHEL, Ramachandrapuram, Hyderabad.
8. K.Likitha, V.Hriday Vishal
  - Attended internship training from 27-12-2016 to 07-01-2017 on “Optical Encoder and Resolver” at DRDL, Hyderabad.
9. P.Sreeja Reddy, K.Swathi, K.Chitrali, P.Venkat Sai
  - Attended internship training from 16-06-2017 to 15-07-2017 on “Prepaid energy meter with tariff indicator” at ECIL, Hyderabad.
10. MK.Tharun, P.Bhaghavath, Ch.Madhulika
  - Attended internship training from 16-06-2017 to 15-07-2017 on “Password based circuit breaker in embedded systems” at ECIL, Hyderabad.
11. N.Sandhya Rani, Ch.Srilaxmi, G.Chandana, Rajitha.

- Attended internship training from 16-06-2017 to 29-06-2017 on “overview of the 400kV power grid” at Power Grid Corporation of India. Ltd.
12. T.Sree Chandana, P.Priyanka
- Attended internship training from 15-12-2016 to 29-12-2016 on “Familiarization of Thermal Power Plant” at NTPC.
13. V.Sounya, T.Nithesh, M.A.Asad Abrar
- Attended internship training from 15-12-2016 to 29-12-2016 on “Electrical Systems in Coal Handling plant” at NTPC.
14. P.Nagasree, Pravallika
- Attended internship training from 12-12-2016 to 31-12-2016 on “Study of Transformers and Switchyard” at NTPC.
15. Ch.Srilaxmi
- Attended internship training from 02-01-2017 to 16-01-2017 on “Operational description of 400kV switchyard” at NTPC.
16. M.Ashish Preetham, K.Anusha, D.Vignatha, C.Bhavani, L.Ashritha, E.Sai Chaithanya
- Attended internship training from 16-12-2016 to 30-12-2016 on “A study on condition monitoring of power transformers” at TSGENCO.
17. S.Shalini, N.A.R.Lavanya
- Attended internship training from 29-06-2016 to 09-07-2016 on “Transformers manufacturing” at Toshiba Transmission & Distribution.

## **VII Sports and Other Achievements:**

1. A. Lakshmi Sowdamini, J.KavyaSree, T.SreeChandana has won First prize in the Poster Presentation event, WIDYIUTH 2K17 at M.V.S.R. Engg College, on 17<sup>th</sup> to 18<sup>th</sup> March 2017.
2. Sheik Saleem has won Third prize in the JAM event, WIDYIUTH 2K17 at M.V.S.R. Engg College, on 17<sup>th</sup> to 18<sup>th</sup> March 2017.
3. G.Rohit has won First prize in the Electrical Junkyard event, IMPACT Fest 2K17 at M.V.S.R. Engg College, on 21<sup>st</sup> to 22<sup>nd</sup> January 2017.
4. N.Sandhya Rani has won gold medal in Kanipurapu KameswaraRao Gold medal/ Commendation at Matrusri Educational Charitable Trust, Hyderabad on 21<sup>st</sup> April 2017.





**Editor:**

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