ABOUT DEPARTMENT

The Department of Electrical & Electronics Engineering was established in 2002 with an intake of 60 and the number was increased to 90 in 2009 and to 120 in 2014. The department is also offering M. Tech (Power Electronics & Electrical Drives) with an intake of 18 from the academic year 2008 – 2009. This program has been accredited by the National Board of Accreditation (NBA) till the year 2018. The department has very well established Air-Conditioned Laboratories with sophisticated equipment supplementing the academic needs of the students.

VISION

Producing professionally competent graduates in the domain of electrical engineering to serve the industry/society addressing the challenges.

PROGRAM EDUCATIONAL OBJECTIVES

♦ Graduates will excel to make way to give solutions to real time problems through technical knowledge and operational skills in the field of Electrical Engineering
♦ Graduates will demonstrate their ability to acquaint with the ongoing trends in the field of Electrical Engineering
♦ Graduates will communicate effectively as team players to cope with building a prospective career.
♦ Graduates of the program will have technical competency in catering the need based requirements blended with ethics and professionalism.

MISSION

♦ Provide professional skills in electrical circuit design and simulation to the students.
♦ Bringing awareness among the students with emerging technologies to meet the dynamic needs of the society
♦ Develop industry institute interface for collaborative research, internship and entrepreneurial skills among the stakeholders
♦ Encourage multi-disciplinary activities through research and continuous learning activities

PROGRAM SPECIFIC OUTCOMES

♦ Conceptualize complex electrical and electronics systems, employ control strategies for power electronics related applications to prioritize societal requirements.
♦ Design, analyze and create energy efficient and eco-friendly power & energy systems

A successful man is one who can lay a firm foundation with the bricks others have thrown at him.
About ETA (Electrical Technical Association)

Electrical Technical Association (ETA) is a student organization for conducting career developing, interpersonal and intrapersonal skills for students. It organizes Seminars, Quiz Programmes, Industrial Visits, Paper Contests, Group Discussions, Guest Lectures, Career Guidance, Games etc under its auspices.

The students are encouraged to present papers and participate in seminars conducted in IITs, NITs and other engineering colleges. Industrial tours are arranged for students to familiarize exposure to industries.

The 1% Rule - Why a Few People Get Most Of the Rewards

The Majority of the Rewards always seemed accrue to a small percentage of people popularly known as 80-20 rule. Why does this happen? To answer this question let us consider an example from nature…

The power of accumulative advantage:
Imagine Two plants growing side by side each day. They will compete for sunlight and soil. If one plant can grow little faster than the other then it can stretch taller, catch more sunlight and soak up more rain.

The next day this additional energy allows the plant to grow even more. This pattern continues until stronger plant crowds the other out and takes the lion’s share of sunlight, soil and nutrients. From this advantageous position, the winning plant has a better ability to spread seeds and reproduce which gives the species even bigger footprint in next generation.

Scientists refer this effect as “Accumulative Advantage”. What begins as a small advantage gets bigger overtime.

Winner takes all effects:
Something similar happens in our lives like plants, humans are often competing to the same resources. Ten companies might pitch a potential client but only one will win the project. You only need to be little bit better than the competition to secure all of the rewards. Two hundred candidates might compete for the same role, but being just slightly better than the other candidates, earns you the better position.

Conclusion:
To achieve this, habits are so important. In today’s world organizations accept us to think Out of the Box all the time to win the hearts of the customers with good brand value.

By
Srisudha
1st yr EEE
Internet has provided fastest communication throughout the world. In the early 1950-1960 the computers used to occupy more space and we were not able to do many tasks at a time, to overcome a lot of waste of time and energy they came up with an idea of communication between the computers and introduced ARPANET (Advanced research projects agency) network. In the year 1971 Thomlinson was the first person to drop a mail using this ARPANET. Then the invention of TCP/IP made the transferring of data of one computer to the other computer. In the year 1991 Tim Berners lee came up with the world wide web the world. This made the connectivity throughout the world.

The inter connection of devices is called internet. Everybody is under the illusion that internet connection is due to satellite and not seems to be true the connectivity is due to cables 99% of data traffic is only due to cables and other 1% by satellites and this 1% is only for Navigation, Google maps and GPS tracking system. These Internet cables are spread over the world these are optical cables(or)submarine cables. When you transfer data from your device it divides into many small parts and these are called packets. Packets reach the other device and after reaching the device these packets are again converted into complete data. Internet approaches you by three different companies TIER-1, TIER-2, TIER-3. These TIER-1 companies have laid down the cables connecting the world. TATA COMMUNICATION is the TIER-1 company of India.

India has six landing points for data traffic which are located in Mumbai, Cochin, Chennai, Pondicherry, Trivandrum, Thoothukudi. Reliance has laid down 100 GBPS submarine cables from Asia-Africa-Europe and these cables has 40 tera byte capacity. Now TIER 2 companies purchase data from TIER 1 companies and transmits through their signal station to the people. TIER 3 are local networks which purchase data from TIER 2 as per GB and some of those are Tikona, Hathway. The TIER 2 and TIER 3 companies have collaborated in India in order to exchange data among themselves and that company is NIXI (NATIONAL INTERNET XCHANGE OF INDIA). Almost 70% of data traffic is done by Mumbai port alone.

At last internet is just free. The amount we pay is utilized for maintainace and replacing cables.

By
AJAY
1st yr EEE
**Events Organized by Students**

<table>
<thead>
<tr>
<th>S No</th>
<th>Event Type</th>
<th>Name of the Program</th>
<th>Organized by and Venue</th>
<th>Date/s</th>
<th>Target Audience</th>
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<tbody>
<tr>
<td>1</td>
<td>Workshop</td>
<td>Fundamentalsof Solar PV and Solar Thermal System</td>
<td>Dept of EEE, Vardhaman College of Engineering</td>
<td>5th August 2017</td>
<td>III Year EEE Students</td>
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<td>Applicationsof Solar PV and Solar Thermal System</td>
<td>Dept of EEE, Vardhaman College of Engineering</td>
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<td>3</td>
<td>Quiz</td>
<td>Technical Quiz</td>
<td>Electrical Technical association, Dept of EEE</td>
<td>18th August,2017</td>
<td>II Year EEE Students</td>
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<td>4</td>
<td>Crossword</td>
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<td>Electrical Technical association, Dept of EEE</td>
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<td>Fungama</td>
<td>Electrical Technical association, Dept of EEE</td>
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<td>II Year EEE Students</td>
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<td>6</td>
<td>Puzzle</td>
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<td>Electrical Technical association, Dept of EEE</td>
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Placements

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<td>2</td>
<td>NTT Data</td>
<td>22th SEP, 2017</td>
<td>04</td>
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14881A0219
KAKARLA SUSHMITHA RAO
EEE

14881A0242
RAMYA
EEE

14881A0247
Shilpa Reddy
EEE

14881A0259
Vishnu priya dandu
EEE

14881A0203

15885A0207
VENKATESH
EEE

14881A0272
UDAY KIRAN REDDY
EEE
Papers Published By Faculty

- Raja Gopal Reddy, B. Srinivas Nakka, Soma Keerthi Sonam, Estimation of Power Harmonics Using Kalman Filter, IJRASET, June 2017
- B. Raja Gopal Reddy, C. Bhanu Prasad, P. Harika, S. Keerthi Sonam, State Estimation and tracking using Fuzzy Kalman Filter, IOSR, June 2017
- Dr. Swati Devabhaktuni, Rotor Side Control Of Wind Turbine Driven Open End (Rotor) Winding Induction Generator, International Journal of Mechanical Engineering and Technology (IJMET), Aug, 2017
- R Madhuri, Dynamic Analysis for Simulating the Effect of Power Quality on Sensitive Electronic Equipment, International Journal Of Engineering And Computer Science
- U. Ramanjaneya Reddy, Single-stage electrolytic capacitor less non-inverting buck-boost PFC based AC–DC ripple free LED driver, IET Power Electronics, 2017

NPTEL Certification by Faculty

<table>
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<tr>
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<th>Roll No.</th>
<th>Subject</th>
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<td>1</td>
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<td>2</td>
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<td>3</td>
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<td>Manasa Devi A</td>
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<td>10</td>
<td>K C Archana</td>
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<td>Power Systems Analysis</td>
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<td>11</td>
<td>K Jyothi</td>
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## Conference/Workshop/Events attended by Faculty

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<th>Date/s</th>
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<td>1</td>
<td>IEEE SS12</td>
<td>Project Competition</td>
<td>Vardhaman College of Engineering</td>
<td>30/06/2017</td>
<td>Dr. T sai Rama</td>
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<td>2</td>
<td>IEEE SS12</td>
<td>Project Competition</td>
<td>Vardhaman College of Engineering</td>
<td>30/06/2017</td>
<td>Mr. B Raja Gopal Reddy</td>
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<td>3</td>
<td>IEEE SS12</td>
<td>Project Competition</td>
<td>Vardhaman College of Engineering</td>
<td>30/06/2017</td>
<td>Mr. Md. Asif</td>
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<td>4</td>
<td>Workshop</td>
<td>Workshop on Outcome Based Education</td>
<td>Vardhaman College of Engineering</td>
<td>5-6 May 2017</td>
<td>Dr. N Kiran Kumar, Mr. Md. Asif, Dr. S Ravivarman, Mr. T C Srinivasa Rao, Ms K Jyothi, Mr. B Raja Gopal Reddy, Mr. N Srinivas, Mr. S Keerthi Sonam</td>
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<td>5</td>
<td>Workshop</td>
<td>Workshop</td>
<td>Vardhaman College of Engineering</td>
<td>31st May-1st June 2017</td>
<td>Mr. B Mohan</td>
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## FDP Organized By Faculty

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<td>Effective and Efficient Teaching</td>
<td>Dept of EEE, Vardhaman College of Engineering</td>
<td>29/11/2017-04/12/2017</td>
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<td>Power Electronic Applications to Renewable Energy Systems</td>
<td>Dept of EEE, Vardhaman College of Engineering</td>
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<td>EEE Dept Faculty from State</td>
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</table>
E-GALLERY

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HoD / EEE

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