



VOLUME 5
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**BE good do
good**

SRKR ENGINEERING COLLEGE

(AUTONOMOUS)

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ELECTRIFYING-2K17



MESSAGE FROM CHIEF EDITOR

Welcome to Electrika, a newsletter for the department of EEE at our reputed Institution SRKREC. This Newsletter Shares the progress in Academic year 2k16-2k17. The information about the events Conducted ,Activities of the Department , Achievements of our faculty and Students are recorded in this issue . Happy Reading!

SANKALP-2K16

*It is a national level technical fest conducted by department of EEE and organised by Association of Electrical Engineers (AEE). The Sankalp 2k16 was conducted on 28TH and 29th December with the theme "GO GREEN". Fest was inaugurated by **Ch. Satyanarayana Reddy** (Superintending Engineer, Operation Circle, APEPDCL, Eluru).*

Sankalp 2k16 comprised of many innovative events - Pragnya(ppt) , Pravyaktha (poster presentation), Srujana(model expo), Yaksha (quiz), Sadhana (short film competition), Inter-state council Mastera-(the best engineer), Gazette-



(writing), Explorer-(tech-hunt), Click-o-bite (photography). A workshop was conducted on 'embedded systems' by Buddha technologies. A total of 650+ students were Participated.



FB PAGE: SRKR AEE

ELECTRIFYING CELEBRATIONS

Association of Electrical Engineers (AEE), is one of student organization in the college that runs by the students of EEE Department ,conducted many events in the college to help the students gain high competency, to adhere towards work and to achieve goals. In this academic year,AEE organized Teachers day to honor our teachers, and Engineers day to honor the engineers in different streams and feel esteemed for their unremarkable achievements.

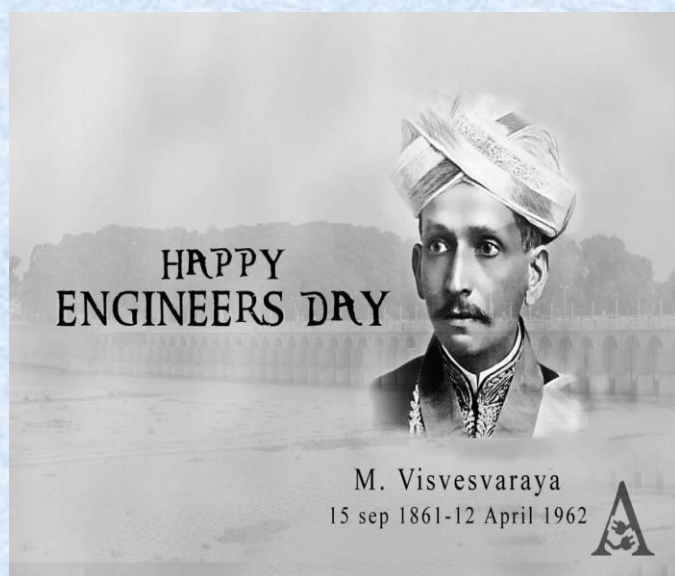
TEACHERS DAY

On the occasion of Dr.Sarvepalli Radhakrishna birthday, i.e., September 5th AEE organized teachers day. The Association felicitated all the faculty of the EEE department. The senior faculty of the department guided the students by sharing their experiences.



ENGINEER'S DAY

On September 15 AEE celebrated engineer's day in EEE department,as a Tribute to the Greatest Indian Engineer and Bharat Ratna Sri Mokshagundam Visvesvaraya. The Association established awareness about the prestigious Indian engineers. The association provided platform for the students to express their innovative ideas by project EXPOS and SEMINARS.



PROJECTS

➤ **SOLAR BASED CROSS ROADS TRAFFIC CONTROLLER USING SUBWAY SYSTEM**

In the most developed and developing countries cross roads traffic issue is the huge problem, hence to decrease the traffic problems many countries use traffic signaling system which is nothing but a queue line system but it doesn't reduce the traffic density. It just pushes the vehicles into a uniform way by maintaining the delay between them. To eliminate the drawback of the proposed solution uses a sub system along with the traditional traffic signaling system.



➤ **HELMET OPERATED SMART E-BIKE**

Helmet Operated Smart E Bike is a multi featured E Bike. The motto of proposed method is to provide helmet use as mandatory system while riding their bikes, because everybody neglects to wear and carry the helmets. Hence to avoid the negligence we came up with a solution of safety and security system with helmet use only.

➤ **SOLAR BASED AUTOMATED IRRIGATION SYSTEM**

In recent days, agriculture field farmers are facing many problems in watering their plants to keep their crops green in summer season. It's because they don't have correct idea about the availability of the power. Even if the power is available, they have to wait until the field is properly watered. Thus this process restricts them to stop doing other deeds. But, there is a solution, i.e., automatic solar submersible pump control panel for irrigation.



EVENTS ORGANISED BY AEE

FACINUS:

On 22nd September 2016, AEE conducted the event for the students who fears to speak on stage,



INCEPTUS

On 12th august 2016, this event was Conducted to bring out many skills such as listening, spontaneity, narrating, communication and mainly our ability to connect our thoughts with others in a team. We have given a word to each member of the team and asked trade story spontaneously by using all the words which were completely out of the box.



STUDENT ACHIEVEMENTS

- P. Sree Harsha 4/4 EEE, I.B.S.Parasuram 4/4 EEE, Y. Anupama 4/4 EEE, S.Sesha Sai Sri 4/4 EEE, S.Harshitha 4/4 EEE, T.R.Pavan Kumar 4/4 EEE, N.S.Vinay Manohar 4/4 EEE, Y.Vamsi 4/4 EEE, p. Rakesh 4/4 EEE and B. Sravanthi 4/4 EEE has participated in the **MATLAB workshop** conducted as a part of ENCURSO 2K17, national level technical symposium conducted by University college of Engineering Kakinada on 4th and 5th Mar-2017.
- K Umesh sanju 4/4 EEE participated in the event **PRAGNYA(PPT)** conducted in SANKALP-16 a national level technical symposium conducted by SRKR Engineering college held on 20th and 21st December 2016.
- G. B. Sandeep 4/4 EEE, Ch. Srirama Raju 4/4 EEE, A. Vasanth 4/4 EEE, G Pooja Krishnaveni 4/4 EEE, A. Chandu 4/4 EEE and A. Chayasalaksha 4/4 EEE have participated in the final round of **ROBOTUS championship** in UTKRAANTA-16 organized by WINGFOTECH excellence at IIT Madras during Chemclave-16.
- G. Vinay Kumar 4/4 EEE and B. Sai pavan Kumar 4/4 EEE participated in **GO SOLAR workshop** conducted from 20th to 21st Dec-2016 organized by robokart.com in association with E-cell IIT Bombay.

ACADEMIC EXCELLENCE

| | | |
|--|----------------------------|-----|
| FOURTH YEAR | No of students enrolled | 208 |
| | No of students passed | 197 |
| | Percentage of pass(pass %) | 95% |
| Best Outgoing Student(2016-2017) | | |
| ➤ 314175714191 CH.LEELA SOUJANYA with C.G.P.A 9.45. | | |
| ➤ She got ALLURI SRI RAMA RAJU MEMORIAL GOLD MEDAL . | | |
| THIRD YEAR | No of students enrolled | 216 |
| | No of students passed | 99 |
| | Percentage of pass(pass %) | 46% |
| SECOND YEAR | No of students enrolled | 282 |
| | No of students passed | 182 |
| | Percentage of pass(pass %) | 65% |

CONFERENCES

- Varma RK bhupathiraju, KUMARRAJA ANDANAPALLI,B.K cHAITANYA ,ANAMIKA Yadav, Acomparative study of different signal processing techniques for fault location on transmission lines using Hybrid Generalized Regression Neural Network “,International Conference on Signal Processing Communication ,Power and Embedded System (SCOPE) PAGES-1246-1250,2016.
- P.KANTARAO,”Enhancement of voltage stability with VSC-OF including wind farms based on PSO”,National Conference on recent advances in Power Electronics-2016
- BHAVANI KATHULA ,B.R.K.VARM-A ,”ANN based fault Classification and Fault location for Double Circuit Transmission Lines “, 1st International Conference on GREEN POWER TECHNOLOGY IN POWER GRID: ISSUES,CHALLENGES &CONTROL (GPTPG-2016).
- G.D.K .PRASAD,”Voice Command Page Turning Robot for Physically Challenged People”,International ICEMRCI Journal .PAGE:1-8.
- PothulaJagadeesh ,drm.Saiveerraju ,”Particle Swarm Optimization based Power System Stabilizer for SMIB system “, International IEEE Sponsored ICETETS-2016.
- V.srinivas ,N.SIVASANKAR ,”Excitation System Control of Synchronous Generator Using PID & Fuzzy Tuned PID Control “,National Conference on Recent Advances in Power Electronics ,Power and Control Systems -2016.
- B.SUBRAMANYAM ,A.Kumarraja ,”AConventional Facts device Based on Dual Angle Control Under System Faults “,Recent Advances in Power Electronics ,Power and Control Systems Engineering “ PAGES:1-8,2016.
- A.kumar Raja ,Pothula Jagadeesh ,sk,nazeer and Suresh Etukuri “,DWT based Symmetrical Detection Method During Power Swing “,International Conference on Circuits Power And ComputingTechnologies.PAGE:1-5,2016.
- M.pavani,Isweetha Monica “,Afuzzy Based SFCL for Fault Current limiting in Distribution Systems “, national conference of Recent Advances in Power Electronics ,Power and Control Systems Engineering PAGE:18-24, 2016.
- NVA BHAVANI,I.SWETHA MONICA,”Power Quality Improvement in Battery Integrated wind Energy System “,International conference of ICEMRCI-2016.
- K.SWETHA,DR.D.VIJAYA KUMAR ,DR.V.S .Vakula ,”Modelling of PID controller for AGC of a multi Area power system with thyristor Controlled Series Controller”,International Conference on Emerging Multi Disciplinary Research and Computational Intelligence -2016.

STAFF PUBLICATIONS

- P.KANTA RAO,"COMPARISON of voltage stability and loss reduction by using model analysis and sensitivity methods " ,International Journal of Electrical Engineering VOLUME-15,ISSUE-1,PAGES-1-6,2016.
- G.D.K PRASAD ,"Amind operated computer mouse using Discrete wavelet Transforms for Elderly people with Multiple Disabilities " ,International Journal of ELSEVIER. VOLUME-10,ISSUE-13,PAGES :166-175.
- POTHULAJAGADEESH ,B.S.S.SANTOSH ,D.A.K.RAO,S.RAJASEKHAR REDDY,B.MOTHIRAM",Instantaneous Reactive Power Control of Non –Linear Loads",International Journal of Chemical and Pharmaceutical Sciences .Special Issue-10,PAGE:34-37,ISSN :0947-2115.
- P.BHAVYA ,SK.NAZEER AND A KUMAR RAJA "A Comparative Assessment on Fault Location Methods Using Travelling Wave Theory " ,International Journal of Engineering Sciences and Computing .VOLUME-6,ISSUE-12,PAGE:3856-3863.
- SUDASHI ROHAN ABINAY,K.S.S.PRASAD RAJU ,"Application of Fuzzy Based UPQC for Quality Enhancement with Minimum VA Rating " , International Journal & Magazine of Engineering Technology ,Management and Research .VOLUME-03,ISSUE-08,PAGE:436-440.
- K.SWETHA ,M.SURYA PRASAD " ,Load Frequency Control of Two Area Hydro-Hydro System using SMES-SMES,TCPs-SMES& SSSC-SMES Controllers in Automatic Generation control", International Journal of Recent Trends in Engineering and Research.VOLUME-2,ISSUE-11,PAGE:14- 21.
- G.VEEERANNA" ,Design and Comparison of PI and Fuzzy Controller for UPQC with Power Quality ," International Journal of Innovative Research and Studies .VOLUME-2,ISSUE-12,PAGE:301-311.
- K.KIRANKUMAR ,M.MANASWI,"Low Frequency HVAC Transmission System for Wind Power Systems " ,International Journal of Research in Science and Technology .VOLUME-2,ISSUE-1,PAGE:16-22.
- CH.DURGA PRASAD, G.PAVAN KUMAR,"Frequency Control of Hybrid Power Systems with Wind Energy in Presence of Classical Swarm Optimization Tuned PI Controller " ,International Journal on Instrumentation and Control Engineering .VOLUME-4,ISSUE-4,PAGES:16-22.
- Dr. M.SAI VEERRAJU ,P.SURESH KUMAR ,"Load Frequency Control of Multi Area Power System Using Fuzzy logic and Optimal Control Technologies " ,International Journal on Recent Trends in Engineering and Research .VOLUME-2,ISSUE-8,PAGE:163-172.
- G.VEEERANNA, B.MOTHIRAM, K.KIRAN KUMAR, D.MOUNIKA, "design on simulation of solar photovoltaic based stand alone scheme having battery as a energy storage for grid connected system", "International journal of control theory and applications." 2016
- A.HEMANTH KUMAR, " Performance of wind farms for various faults" , International IJERMT. VOLUME-5, ISSUE-8, Pg: 63-72
- B.S.S. SANTOSH, "Enhancement of stability in micro grids using droop controller", International journal of current trends in engineering research. VOLUME-2, ISSUE-11, Pg:71-81.

WORKSHOPS

- CH.DURGAPRASAD,A.kumarrajaAttended a Workshop on International Advanced Computing Conference on “Outcome Based Education and Accreditation in S.R.K.R Engineering College during 26th Feb-2016.
- PothulaJagadeesh ,SK NAZEER ,D.BhanuChandar ,K.S.S.Prasad Raju Attended a workshop on Research Avenues & Emerging Trends In Electrical Engineering in S.R.K.R. Engineering college On 26th –FEB 2016 .
- PothulaJagadeesh ,D.Ananthakoteswara Rao ,D.BhanuChandar Attended a workshop on Evaluation of Land and Water Management Systems of West Godavari District in S.R.K.R. Engineering college during 27th OCT to 28th OCT 2016 .
- D.bhanuChandar ,K.S.S. PRASAD RAJU Attended a workshop on Research Avenues & Emerging Trends In Electrical Engineering in J.N.T.U Kakinada During 16th May 2016 to 30th May 2016 .
- K.S.S.Prasadraju Attended a workshop on APPLICATION OF power Electronics to Renewable Energy in NIT ,GOA .During 12th May to 14th May 2016.
- K.SWETHA attended a workshop on Research methodologies in J.N.T.U.Kakinada during 1st May to 15th May 2016.

PLACEMENTS

| S.R.K.R. ENGINEERING COLLEGE | | | |
|-------------------------------------|----------------------------|---------------|------------------------------------|
| EEE DEPARTMENT | | | |
| 2016-2017 | | | |
| S.NO | NAME OF THE COMPANY | COURSE | NO OF STUDENTS SELECTED |
| 1 | TATA CONSULTANCY SERVICES | BTECH | 36 |
| 2 | RAMTECH | BTECH | 22 |
| 3 | VIJAYA ELECTRICALS | BTECH | 6 |
| 4 | GSS INFOTECH | BTECH | 6 |
| 5 | GROW CONTROLS | BTECH | 4 |
| 6 | INFOSYS | BTECH | 2 |
| 7 | JBM AUTOMOTIVE | BTECH | 2 |
| 8 | COGNIZANT | BTECH | 2 |
| 9 | WIPRO | BTECH | 1 |
| 10 | AMAZON | BTECH | 1 |
| 11 | CAPGEMINI | BTECH | 1 |
| 12 | NISSAN | BTECH | 1 |
| 13 | CERIUM | BTECH | 1 |
| 14 | DXCORR | BTECH | 1 |
| 15 | PANASONIC | BTECH | 1 |
| 16 | DXC TECHNOLOGIES | BTECH | 1 |

Name of the Student Selected in TCS: 36

Name of the Student Selected in RAMTECH : 22

Name of the Student Selected in Other Companies : 23