





IGEI

Volume-07

FEB 2018

Institution of Engineers (India)
Students' Chapter

Department of lectrical & lectronic ngineering

EDUCATION

ENTERTAINMENT

EMPLOYMENT



NEWSLETTER

Peace be Amplified, World be Rectified



SIR C.R.R. COLLEGE OF ENGINEERING
Eluru, Andhra Pradesh



MANAGEMENT COMMITTEE



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Smt. Maganti
Padmavalli Devi
Treasurer

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INTRODUCTION:

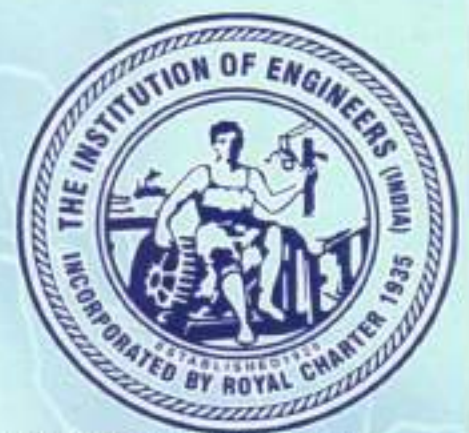
ABOUT THE DEPARTMENT:

The Department of Electrical and Electronics Engineering (EEE) was established in the year 1994, with an intake of 60 UG students in 1994, has now increased to 180 along with lateral entry students. A PG course offering specialization in Power Systems and Automation was started in the year 2010 with an intake of 18 students and was increased to 24 in 2015. In 2017, Andhra University recognised EEE, CSE, and MECH departments as research centers and given research institution status for our college. In the same year IE(I) granted Life Institutional Membership to our college. The EEE department has its students i.e., 20 UG batches and 6 PG batches well settled all over the globe. The department has good infrastructure facilities, modern teaching aids & all kinds of amenities for both student and faculty development. It is well equipped with modern equipment in all laboratories providing a scope of exploring beyond the limits of knowledge. Our department not only having above stated amenities but also possess modern teaching trends like e-classroom/seminar hall and independent staff cabins besides a well stocked department library/reading room. The state-of-art department computer center has a fully licensed software. Equipment modernisation has been done through AICTE MODROBS scheme and a research lab exclusive to PG students and research scholars has been established in the department. The department possess 31 well qualified, experienced and dedicated teaching faculty holding PhD and M.Tech /M.E degrees. There are 4 doctorates and many young active research scholars pursuing their PhD. The department is assisted by 13 non-teaching faculty and supporting staff. Our faculty has published many papers in National/International conferences and Journals. Many of the faculty are participating in 'Faculty Development Programme' and many other programs in reputed institutes. Our department has a skill developing center which helps the students to develop their talents. EEE department publishes an yearly newsletter covering all the activities that took place in the corresponding academic year.

ABOUT IE(I):

The Institution of Engineers (India) (IE(I)), was established in 1920 and was sanctioned Royal Charter in 1935 laying down that the principle role of a learned society is to promote the advancement of science and practice in different fields of engineering. The Royal Charter reflects the spirit in which engineering disciplines are to be pursued.

The Institution of Engineers (India) (IE(I)) students' chapter of EEE department at Sir C R R College of Engineering is very much concerned about the all round skill and communication development of the students. Considering the development of students, IE(I) has conducted various technical, co-curricular and extracurricular activities which enhance the engineering values and also entrepreneur skills of students. IE(I) Students Chapter has conducted many events like DAIRY OF EVENTS, ART CORNER, and EN'WRITTECH which enhanced the various skills among students. In memory of Sri Mokshagundam Visvesvarayya, we conducted various technical events like robotics and electrical expo etc... Many of the students participated in events and won many prizes.



MESSAGES

Sri KOMMAREDDY RAM BABU

I deem it a great privilege to be an essential part of this magnanimous institution. As president of Sir C.R.Reddy College Of Engineering, in particular, Engineering is a course that demands innovation and logical thinking and subjects are to be learnt at the application level. The ultimate aim of engineering as a study is to make human life easy and pleasurable so it is our duty to hone the talents of the young students who join the institution and make them ready for job and ready for life. Every student must be made to remember that in order to survive in the job market governed by cut throat competition, he should be one among the best. The institution must mould the student and give him an edge over others in attaining success.

Sri N.V.K.DURGA RAO

Sir C.R.Reddy College of Engineering proffers the student with good atmosphere with state of the art facilities, distinguished mentors and pleasant educational environment. The institution holds the aces of assuring the employability and communication skills of students. It provides quality education in an environment of discipline, self-dependent and self-confident individual. Our college pulls out all the stoups to mould the students career in such a way that they excel in all aspects of life.

Smt. MAGANTTI PADMAVALI DEVI

It gives me immense pleasure and I welcome the ANNIVERSARY celebrations of the Institution of Engineers(INDIA) Students' Chapter, EEE department. Our institution strives to provide a professionally focused educational system and is committed to strong ethical and social values. I wish the event a grand success and my congratulations to all the persons involved. I also admire the editorial board for all the endeavours put in by them in bringing out this spectacular newsletter.

Dr.G.SAMBASTIVA RAO

Engineers are not only the people who know how to do things right but who know the right things to do. We at 'Sir C.R.Reddy' try to focus on engineering education to keep pace with mighty changes occurring today in industry, Business and society. We do not believe that effective education can be achieved by what we teach but we base on what our students learn. The ideal learning process is the interaction of students with faculty. Hence it is our responsibility to develop the student faculty interface.

We encourage and facilitate leadership qualities in our faculty and students. For this, engineering students shall develop required attributes and knowledge beyond traditional constraints of class rooms. An engineering student shall realize that he has to create connections and stronger partnerships in the global society in which he is embedded.

HOD MESSAGE

Technology is changing day by day – Classroom teaching gives basic knowledge and to adapt to the new technologies, every student should involve in the events organized by professional societies like IE(I), ISTE and IEEE. We are in the post modern era where science and technology are the cornerstones on which structure of society rests. The Institution of higher education will be better-only if they prepare in time to use technology for reopening as well as multiplying the learning opportunities for the students. We are working constantly to develop our department further to an extent, providing students with opportunities to transform themselves into successful professionals.



Dr.A.SRINIVASA REDDY
HOD,IEEE DEPARTMENT

STAFF ACHIEVEMENTS STAFF PUBLICATIONS & WORKSHOPS

1) Dr.A.SRINIVASA REDDY

Published a paper entitled "Simulation of Shunt Active Power Filter with PI and Fuzzy Logic Controller", International Journal of Engineering and Advanced Technology, ISSN: 2249-8958 (Online), Volume-7 Issue-2, Pages 89-95, December 2017.

Published a paper entitled "Economic dispatch with valve point effect using whale optimization algorithm", International Journal of Professional Engineering Studies, Volume 8, Issue 3, Apr 2017, Pages 347-354.

Reviewer for the Journal, "International Transactions on Electrical Energy System".

2) Dr.Y.BUTCHI RAJU

Published paper entitled "PSO Optimized Load Frequency Control of a Multi Area Power System under Restructured Scenario", in International Journal of Sciences Technology and Engineering".

Attended a Workshop on "Smart Power Technologies" on 24th and 25th of October, 2017.

Reviewer for the Journal of Computational Systems engineering and Inder Science International Journal of Fuzzy Competition and Modelling.

Published a paper entitled "Adaptive Energy Control Storage of STATCOM for the Regulation of Voltage", in 6th International Conference on Communication System and Network Technologies organised by IIT,Nagpur.

3) Dr.M.VEERA KUMARI

Published a paper entitled "Cuckoo Search Algorithm for Optimal Transmission Expansion Planning with Various Load Models & FFC", in 1st International Conference on Power Engineering, Computing & Control held from 2nd to 4th March, 2017 at VIT University, Chennai.

4) Dr.N.BHUPESH KUMAR

Published a paper entitled "Optimisation of Power Generation and Reliability enhancement of Photo Voltaic System", in International Journal of Engineering & Technology (IJEAT), Volume-7, issue-2, page 43 to 49, December-2017.

5) Sri N.RAMA NARAYANA

Participated in "Two week ISTE STTP" on Electric Power System conducted by IIT,Kharagpur in June & July, 2017.

6) Sri T. KRANTHI KIRAN

Published a paper entitled "EFFECTIVE UTILISATION OF RENEWABLE ENERGY SOURCES TO GENERATE AND CONTROL POWER IN AC ISOLATED MICRO GRID", published in International Journal of Engineering and Advanced Technology(IJEAT), Volume-7 Issue-2, page 109 to 113, December -2017.

7) Sri M.SUNIL KUMAR

Participated in "Two week ISTE STTP" on Electric Power System conducted by IIT,Kharagpur in June & July, 2017.

STAFF ACHIEVEMENTS

8) Sri S.N.V. BRAMARESWARA RAO

Published a paper entitled "Operation and Control of Wind/Solar/Diesel Generator Based Hybrid Microgrid in Grid Connected Mode Under Fault Conditions" in IEEE conference (ICECDS-2017) with Vol.01, Issue-1, pages 81-86.

Attended "3-Days National level Workshop" in Andhra University, Vishakhapatnam under Vinnovaarayya Ph.D Scheme held from 16th to 18th November, 2017.

Attended One week Faculty Development Program on "Instructional Design and Delivery Systems by NTTTR", Chennai from 4th to 9th December, 2017.

Published a paper entitled "Modeling and Design of Hybrid Control Strategy for Power Quality Improvement in Grid Connected Renewable Energy Sources" as Co-author.

9) Sri B.SAMBASTVA RAO

Attended One week Faculty Development Program on "Instructional Design and Delivery Systems by NTTTR", Chennai from 4th to 9th December, 2017.

Participated in "SMART-INDIA HACKATHON-2017" as a Mentor held on 1st&2nd April, 2017.

10) Sri R.MADHUSUDHAN

Published a paper entitled "Application of SPSO and PSO to Optimal Power Flow Solutions along with SSC Device", in International journal paper.

Attended Workshops on "NI, Micro Grid and Faculty Development Programme".

Mentor for "A project on CTP" has been selected in one of the 25 projects in South India Region.

11) Sri Sk. CHAN BASHA

Attended One Week Faculty Development Programme on "Power Electronics Applications for Renewable Energy & Electrical Vehicle" in NVIR College, Vijayanagaram from 4th to 9th December, 2017.

12) Miss T.DEEPTHI PRASANNA

Published a paper entitled "Improvement of Fault Ride through Capability in DFIG Wind Turbine with Fuzzy Controlled SFCL".

Attended Workshop on "Faculty Development Programme".

13) Sri J.AYYAPPA

Published a paper as Co-author entitled "Modeling and Design of Hybrid Control Strategy for Power Quality Improvement in Grid Connected Renewable Energy Sources".

Attended a Workshop on "Relay Technologies (From Electromagnetic Relays to Numerical Relays)" from 19th to 25th of December, 2017".

14) Mrs. P.NAGA SOWJANYA

Published a paper entitled "Based DSTATCOM for Neutral Current Compensation with Linear and Non-Linear Load in Combination of T-Connected Transformer and SRF", in International Journal of Scientific Progress and Research(IJSPR), Volume-1, Issue-110, November-2017.

15) Sri L.VAMSI NARASIMHA RAO

Published a paper entitled "Application of synchronous frame Controller for Grid Connected and Islanding operation of Distributed Power Generation", in International Electrical Engineering Journal (IEEJ), Vol. 7 (2017) No.11, pp. 2454-2458.

STUDENT ACHIEVEMENTS



EEE TOPPERS -A.Y. 2016-17

SEMESTER 01

NAME	REG.NO	YEAR/SEC	SGPA
K. DURGA BHAVANI	313177114039	IV/IV-A	9.04
K. SASIDHAR REDDY	313177114045	IV/IV-B	9.13
T. AKHIL	313177114121	IV/IV-C	9.07
CH. MOUNICA	314177114023	III/IV-A	8.45
M. SAI PRADEEP	314177114076	III/IV-B	8.34
P. NAVEENA	314177114111	III/IV-C	8.00
G. VIKKI BABU	315177114050	II/IV-A	8.67
K. KIRAN	315177114070	II/IV-B	7.93
P. SARIKA	315177114144	II/IV-C	8.13

NAME	REG.NO	YEAR/SEC	SGPA
B. B. A. RAJYALAXMI	313177114009	IV/IV-A	9.69
K. SASIDHAR REDDY	313177114045	IV/IV-B	9.85
VIKASH KUMAR	313177114128	IV/IV-C	9.46
BHANU SREE	314177114148	III/IV-A	8.71
M. SAI PRADEEP	314177114076	III/IV-B	8.50
S.M. KASYAP	314177114120	III/IV-C	8.50
C. N. REBECCA	315177114031	II/IV-A	8.73
V. BHANU SAGAR	315177114202	II/IV-B	8.47
N. CHANDRASEKHAR	315177114176	II/IV-C	8.67

SEMESTER 02



GATE 2017 QUALIFIED STUDENTS

REG.NO	STUDENT NAME	GATE RANK
1)313177114020	D. RAMESH	10985
2)313177114028	G. RAGHAVA	11428
3)313177114055	K. HAREESH REDDY	12670
4)313177114091	P.H.S. JAGADESWARI	13142
5)313177114128	VIKASH KUMAR	13774
6)313177114045	K.SASIDHAR REDDY	15507
7)313177114029	G.BHARAT KUMAR	19297



STUDENT ACHIEVEMENTS



- ▶ J.BHANUSREE and A.POOJA of IV/IV-EEE had participated in the fest conducted by Sri Vishnu Womens College in 2k17 and won 1st prize in app based event.
- ▶ V.KALYAN of IV/IV-EEE had participated in sports events conducted by Vignan University and won 2nd prize in Javelin throw.
- ▶ S.NAGARJUNA and S.VENKATESH of IV/IV-EEE had participated in C.R.R fest-2k17 and won 1st prize in volley ball competition.
- ▶ S.NAGARJUNA and S.VENKATESH of IV/IV-EEE had participated in C.R.R fest-2k17 and won 1st prize in kabaddi .
- ▶ K.SESHAGIRI RAO, B.RAJARATNAM, B. VAMSI, CH.MONIKA, P.RAMYA DURGA and CH.NAGESWARA RAO along with B.SAMBASTVA RAO Sir as thier guide were selected for state level SMART INDIA HACKATHON conducted by Central Govt.,.
- ▶ K.RANI, K.VARALAKSHMI AND M. KALPANA DEVI of IV/IV-EEE had participated in district level sports conducted in our college and won 3rd prize in (4x400) Relay.
- ▶ M.PRAVEEN KUMAR of III/IV-EEE had recieved merit certificate from NPTEL by achieving 91% of marks in MOOC course
- ▶ V.B.SAGAR, M.PRAVEEN, K.NAGARJUNA, K.SUHANA, K.RAVALI, M.CHARISHMA of III/IV-EEE had participated in Regional Workshop of 9th India Innovation Initiative 2017, scheduled during 13th-14th October 2017 at K.L.University, Vaddeswaram, Vijayawada, Andhra Pradesh and represented our college by keeping their innovative idea of floating solar power plant.
- ▶ Y.SIREESHA of III/IV-EEE had participated in kolleru 5k run an won 3rd place in it.
- ▶ V.V.R. PRASHANTH of III/IV-EEE had participated in eenadu district level championship-2k17 and won 1st prize.
- ▶ T. MARUTHI SUBBA LAXMI had participated in kabaddi and shuttle competiton conducted in C.R.R fest-2k17 and won 2nd prize in both sports events.
- ▶ U.SOUMYA of III/IV-EEE had participated in C.R.R fest-2k17 and won 1st prize in shuttle(doubles).
- ▶ U.SOUMYA of III/IV-EEE had participated in C.R.R fest-2k17 and won 2nd prize in throwball competition.

PLACEMENTS

Placements so far in campus selection (2k17-18)



E.K.L. SUMANTHI



K.V. RATNAM



N.H.K. DATTA



P.K. KOYYANA



S.M. KASAYAP



V.V.D. PRASAD



M.N. CHAKRI



K. RAMBABU



Y.K. NAIDU



A. BALAJI



TANUSHA



Y.K. NAIDU

53
Selects
Still counting.....



S.M. KASAYAP



E.B.S. SONIVIS



G.M. ADHALARAJ



K. RAJESH



E.V.L. SHWANTHIA



K. ARLAXMI



TANUSHA



V.V.D. PRASAD



Y.S. MANJUSHA



E.E.R. KUMAR



M.S. AKHIL



C.N. RAO



C. MONIKA



P.M. GANESH



A.L. GUPTA



B.S. KUMAR



G.L.C. REDDY



G.M. ADHALARAJ



K. RAJESH



M.K. KANTH



M.L.V.S. PRADEEP



N.H.K. DATTA



N.J. IMMANUEL



P. PRAVEEN



P.K. KOYYANA



P.P. KUMAR



E.B.S. SONIVIS



S.M. KASAYAP



T.S. NANDAN



V.V.D. PRASAD



V. GANESH



Y.S. SIDHAR



M.N. CHAKRI



P.M. GANESH



K.S. RAO



K. RAMBABU



Y.A. KUMAR



T.N. DIVYASHANKAR



G. GOWTHAM



M. YESWANTH



N. NAGANI

PLACEMENTS(2K16-17)



EEE IE(I) ACTIVITIES

DAIRY OF EVENTS



An event where the general basics of every topic related to general science, aptitude, general mathematics etc., in the first round and in second round is conducted on general knowledge and critical thinking of students.



CREATIVE ART

Art is one the finest thing that an individual possess. It brings out the creativity inside the layers and gives a living life to the imagination. In order to encourage these intense skills among the students we conducted this event and made sure that these qualities bring a spark in them to become a fine artist.



EEE IE(I) ACTIVITIES

EN'WRITECH



An event conducted in EEE Dept., in order to enhance the technical skills required to face campus recruitment. It improved communication skills and promoted confidence levels in our students to face interviews. This event mainly concentrated on written, technical, communication and message orientation approach of students.



ENGINEER'S DAY



Mokshagundam Visveswarayya was an Indian engineer, scholar, statesman and Diwan of Mysore from 1912 to 1918. He's the recipient of Indian republic highest honour, The Bharata Ratna, in 1955. In order to commemorate his contribution, Sept, 15th (his birthday) is celebrated as an Engineer's Day every year. In our college on eve of Engineer's Day, a set of events are organised to promote technical knowledge by our students and it grabbed whole college's attention towards the improvement of technical knowledge.



COLLEGE LEVEL EVENTS

The National Assessment and Accreditation Council (NAAC), the organisation that assesses and accredits Higher Education Institutions in India visited our college on 3rd, 4th and 5th of July, 2017. The students of EEE Department has presented a Robotics Expo which attracted the attention of NAAC PEER TEAM.



The Cultural Programme of SIR C R REDDY COLLEGE OF ENGINEERING was held in college premises in a benefitting manner which was presided over by NAAC PEER TEAM, College management along with President and the Principal of the college.



COLLEGE LEVEL EVENTS

YOGA DAY

Health is Wealth.

Yoga is an ancient culture of India which enable a humanbeing to be healthy and to attain spiritual peace which finally leads to the enlightenment of society. In order to provide the knowldge of yoga to future generations, The International Yoga Day is celebrated.



RIGHT TO VOTE

Be bright, Vote for what is right.

Every person in this society has right to vote. An awareness is necessary in order differentiate between right and wrong. A program was conducted in order to make people realise the biggest power change is in their hands.



INDEPENDENCE DAY

Celebrating the joy and happiness of free India.

Thousands laid down their lives so that our country can breath the independtly today. Never forget their sacrifices. Salute to our nation which is a hub of uncountable incredible ideal personalities.



JNTU COMMITTEE

From the academic year 2k17-2k18, our college has been affliated to JNTU, Kakinada. In view of this, JNTUK laid a committee to visit the campus and ensured our quality of education. This academic year started under JNTUK with intake of first year students of total six branches.



COLLEGE LEVEL EVENTS

TECH FEST 2017 CSE & IT

On December 16, 2017 about 300+ participants includes "technical, cultural and non-technical events. The event went successfully by improving all kinds of skills in participants.



GREETING CHIEF GUEST



GREETING CHIEF GUEST



DIGNITARIES ON THE DIAS



PRINCIPAL SPEECH



CHIEFGUEST MESSAGE

TEACHER'S DAY

Teaching is not a service, profession or a job. It is pillar of the society. On eve of teacher's day, management not only appreciate them but also honoured them for their special contributions in a particular field or area, or the community in general.



MY CAMPUS

Our EEE students participated in a program conducted by local cable channel of eluru named My Campus. Students are very much excited to be in front of camera which was telecasted in the local channel.



SOLAR POWER PANELS INSTALLATION

Solar power is one of the renewable energy resources from the nature. It is continuous form of energy which is available throughout the day time. In our college solar power panels are arranged widely which reduces the power consumption from grid and also enables us to provide power to the grid during summer which is a source of income for our college. On basis of requirements, a plant with 250KW capacity is installed in the college.



WORLD SPACE WEEK



A program conducted by SHAR-Sathish Dhawan Space Research Center on 5th & 6th of October, 2017 on eve of space week celebrations all over the district as an expo of models of different space technologies in which our students participated as volunteers.

SCILAB WORKSHOP

A program conducted by APSSDC in our department to enhance the skill of new programming on scilab on 26th & 28th of October, 2017 which is a great success and it created a tempo of learning



Skill



SOUTH ZONE INTERUNIVERSITY BADMINTON(WOMEN'S)TOURNAMENT



The South Zone Interuniversity Badminton (Women's) tournament was held from 12th Nov 2017 to 15th Nov 2017 in our college campus on behalf of Andhra University which is a pride to our institution.

ANTI-RAGGING AWARENESS PROGRAM



A ragging free environment is necessary for avoiding inequality between the students. As we know that no two persons are identical (in terms of mental strength), we should take care of sensitive minded people. In order to promote this an awareness program was held in our college in order to make everyone aware of consequences to be faced if at all ragging takes place in any form.

INSTITUTION OF ENGINEERS [INDIA]



5th ANNIVERSARY



th ANNIVERSARY

Our IE(I) 5th anniversary on Feb-06 was celebrated with speeches of President, Incharge Principal, EEE HOD and an inspirational speech delivered by our chief guest Sri Anvesh Dasari garu (R&D executive manager, Efftronics).

INSTITUTION OF ENGINEERS [INDIA]



5th ANNIVERSARY

Culturals are always a part of grand events which make us energetic after the official functions. They entertain us to get a fresh mood before we leave the event as they fill us with enjoyment mood and satisfaction.

FELICITATION

On eve of TEACHER'S DAY, Helapuri Lions Club members felicitated Dr. A. Srinivas Reddy, Head of the EEE department.



ORPHANAGE VISIT

Children are embodiments of love and God. In order to celebrate the Children's Day, the students of EEE dept., planned a visit to orphanage to spend few hours with them. To promote humanity and social responsibility in the society, students donated books, pens, medicines, rice and provided lunch for the children in "PREMANVITA".



SOCIAL RESPONSIBILITY

Children are the society's future. Such importance is given to them as they can only take society forward as they grow up. But today we come across those situations that make us regret on what is happening in this society. Our students found out a boy begging in the campus and identified him as a victim of such a cruel claws which made him dumb and was threatened for begging. As noticed our students joined him in "Child Line" and safeguarded his future from ruining.



CREATE



Hearty Welcome To
Chief-Guest: **B.K.Lavanya**
Exponent Of Rajyoga Meditation Srirangam Rishabh Ashram
Annual Day Celebrations of
CREATE
DRIS: REALM OF ENERGETIC, SRIRANGAM OF TECHNICAL EDUCATION
Date: 08th of April, 2017 (Saturday)
FIRST YEAR ENGINEERING DEPARTMENT
SIR C.R.R COLLEGE OF ENGINEERING, ELURU-534007



Create is the first year's youth festival organized with the basic idea of inculcating students with a spirit of leadership and enthusiasm in addition to encouraging them to be a step forward in academics along with their co-curricular activities.





Robotics Club



Robotics Club was established in 2014 and was actively performing various experimental projects and also conducting events at both department and college level events successfully since it was established. It provokes inner ability of creativeness among students and encouraging them to explore new and new advanced technologies.

Robotics workshop was conducted to the students of II/IV-EEE students by their seniors in order to motivate them and to take forward the tradition of learning advanced technologies related to robotics and its applications

A Robotic expo was conducted by the students of EEE department on behalf of Robotics Club on 4th July, 2017 as a token of technical knowledge and skill in front of NAAC Peer Committee.

On eve of ENGINEER'S day (15th September, 2017) students of EEE department conducted some robotic events which attracted the sight of whole college.

Technical Fest

ELECTRONICAL-2K18



ELECTRONICAL-2K18 jointly conducted by EEE & ECE Departments took delight with messages of President, Principal, EEE HOD, ECE HOD & Guest of Honour Sri N.V. Ramana (Director, Doordharsan, Vijayawada).



On February 23, ELECTRONICAL-2K18 went with 500+ participants including "technical, non-technical events" and was a grand success. The event filled it's participants with enthusiasm and brought inner talents into lime light.



Freshers Day

A Freshers day is a welcome party to newcomers and a bridge to form a bond between seniors and juniors. This avoids the barrier of senior and junior and lets them mingle with each other.

Freshers Day took delight with messages of Principal, EEE HOD & a beautiful entertaining cultural extravaganza comprising of dances, melody songs and skits.



New Year Celebrations



A small new year celebration in our department with all our teaching and non teaching staff.

A Rangoli competition is held in our department, invoking our tradition and culture.



INDUSTRIAL VISIT

DR. NARLA TATARAO THERMAL POWER STATION



Dr Narla Tata Rao Thermal Power Plant is also known as Vijayawada Thermal Power Plant. It was developed under 4 stages, with the project cost of Rs 193 Crores and Rs 511 Crores respectively. Again with an investment of RS 840 Crores 2 units were commissioned under III Stage. The seventh unit of 500 MW was commissioned in 2009.



The station stood first in country during 94-95, 95-96, 96-97, 97-98 and 2001-02 by achieving the highest plant load factor. The station has received many prestigious awards from various organisations. The station has received Meritorious Productivity Awards for 21 consecutive years and Incentive awards for 12 consecutive years.

The students of III/IV-EEE department had visited to Dr Narla Tatarao Thermal Power Station located in Ibrahimpatnam on 4th, 5th & 6th of January, 2018 in order to improve the practical knowledge and to observe how the power is being generated in the plant using thermal power.



Guest Lecture



A Guest lecture was delivered by Sri P. Satyanarayana (Divisional Engineer, Dr. NTTPS, Vijayawada) on topic "Present Power Scenario" on February 16, 2018 and interacted with students to impart more practicality into their minds.

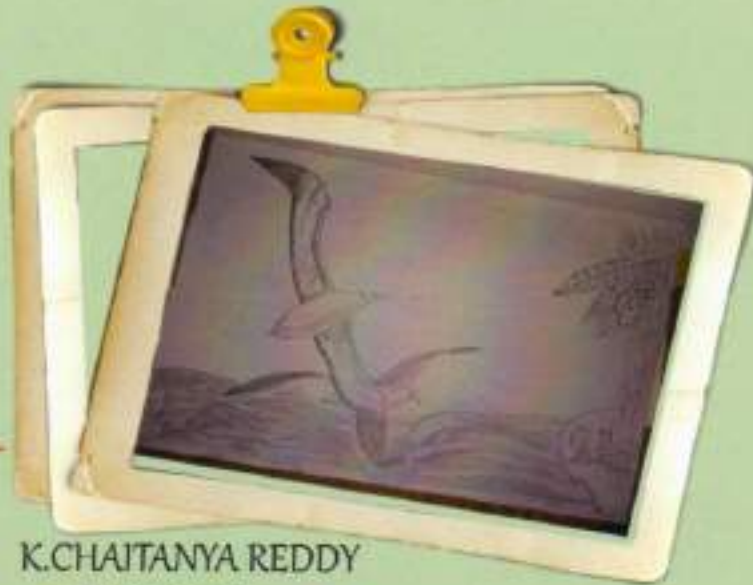
ARTICLE

CAN THE STUFF GONE INTO BLACK HOLE BE BROUGHT BACK????

Stuff that falls into a black hole is gone forever, right? Not so, says Stephen Hawking. "If you feel you are in a black hole, don't give up," he told an audience at a public lecture in Stockholm, Sweden, yesterday. He was speaking in advance of a scientific talk today at the Hawking Radiation Conference being held at the KTH Royal Institute of Technology in Stockholm. "There's away out. You probably know that black holes are stars that have collapsed under their own gravity, producing gravitational forces so strong that even light can't escape. Anything that falls inside is thought to be ripped apart by the massive gravity, never to be seen or heard from again. What you may not know is that physicists have been arguing for 40 years about what happens to the information about the physical state of those objects once they fall in. Quantum mechanics says that this information cannot be destroyed, but general relativity says it must be – that's why this argument is known as the information paradox. Now Hawking says this information never makes it inside the black hole in the first place. "I propose that the information is stored not in the interior of the black hole as one might expect, but on its boundary, the event horizon," he said today. "Black holes ain't as black as they are painted. The event horizon is the sphere around a black hole from inside which nothing can escape its clutches. Hawking is suggesting that the information about particles passing through is translated into a kind of hologram – a 2D description of a 3D object – that sits on the surface of the event horizon. "The idea is the super translations are a hologram of the ingoing particles," he said. "Thus they contain all the information that would otherwise be lost." So how does that help something escape from the black hole? In the 1970s Hawking introduced the concept of Hawking radiation – photons emitted by black holes due to quantum fluctuations. Originally he said that this radiation carried no information from inside the black hole, but in 2004 changed his mind and said it could be possible for information to get out. Just how that works is still a mystery, but Hawking now thinks he's cracked it. His new theory is that Hawking radiation can pick up some of the information stored on the event horizon as it is emitted, providing a way for it to get out. But don't expect to get a message from within, he said. "The information about ingoing particles is returned, but in a chaotic and useless form. This resolves the information paradox. For all practical purposes, the information is lost." Last year Hawking made headlines for saying "there are no black holes" – although what he actually meant was a little more complicated, as he proposed replacing the event horizon with a related concept, an apparent horizon. This new idea is compatible with his previous one, which wasn't really news to theoretical physicists, says Sabine Hossenfelder of the Nordic Institute for Theoretical Physics in Stockholm, who attended Hawking's lecture. "He is saying that the information is there twice already from the very beginning, so it's never destroyed in the black hole to begin with," she says. "At least that's what I understood."

ARTISTIC

P E R S P E C T I V E



K.CHAITANYA REDDY
(IV/IV-EEE-A)



S.M.KASYAP
(IV/IV-EEE-C)



M.LUMA SAI RAM PAVAN
(III/IV-EEE-B)



ELECTRICAL UPDATE

PERSONAL FLYING CAR



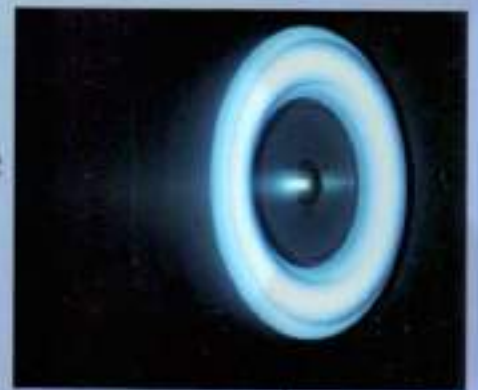
The coolest thing about *The Jetsons*, was the flying car. No more bumper-to-bumper snail-treks along the Beltway. Well, thanks to a company called, Terrafugia, life may soon mimic art. They are

working on a vehicle that uses hovercraft-like rotors to lift straight off your driveway. Then, the rotors drop to become fixed wings for an aircraft powered by a rear-mounted engine. The prototype has a range of 500 miles. IN case you were wondering how you were going to get your pilot's license, don't worry; the vehicle will fly itself (Google style). The company hopes to have models ready for sale in the 2020s.

A decorative graphic consisting of several overlapping, colorful lines in shades of red, orange, yellow, green, and blue, arching over the section header.

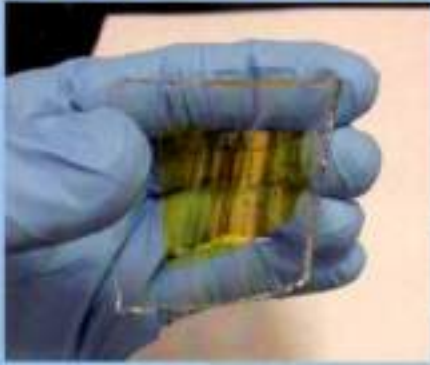
Ion-Thruster Engine

Star Trek is said to have inspired several real inventions. It seems NASA's also decided to take a page from the 1960 s TV series with its ion-thruster engine. The engine will use solar electric energy to accelerate xenon ions that provide the thrust. Such engines are said to be far faster and use far less energy than convention solid fuel rockets. The first potential use is for vehicles that will be part of NASA's Asteroid Retrieval Initiative.



TRRAM

Transparent Resistive
Random Access
Memory



Korean Inventors from Korean Advanced Institute of Science & Technology, named as -Jung Won Seo, Jae-Woo Park, Keong Su Lim, Ji-Hwan Yang and Sang Jung Kang, has created the

world first transparent chip . The TRRAM is completely similar to the CMOS(which we use in our embedded circuitry), but the only difference is that it will be clear and transparent. It is like going into the heart of classical Electronic Engineering subject; Embedded systems This technology can enable the windows and mirrors of your home to behave like computer monitors or TV screens..

More Than a View Windows Double as Solar Panels

A tech startup on a mission to make modern commercial and housing estates energy neutral has outfitted the headquarters of a Dutch bank with the world's first commercial, fully transparent solar-power-generating windows. The windows

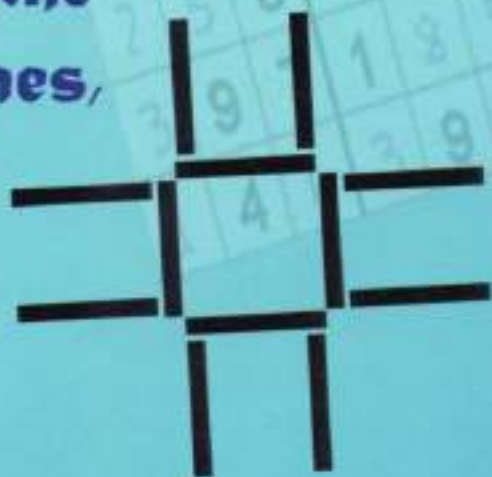


have solar cells installed in the edges at a specific angle that allows the incoming solar light to be efficiently transformed into electricity. The windows could generate 8 to 10 watts of power. This enables the user to charge a phone per every square meter [11 square feet] two times a day

Puzzle Up!

$20+20+20=60$. how can you make

60 again by using the same number 3 times, but it can't be 20?



how can you create 3 squares by moving exactly 3 sticks !!!

If there are 6 apples and you take away 4, how many do you have ?



IE(1) EXECUTIVE BODY



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ACADEMIC YEAR

(2017-18)



FACULTY PHOTO



OUTGOING BATCHES WITH PRINCIPAL AND STAFF
(2014-2018 BATCH)

WISH
YOU
H
A
P
P
Y
U
G
A
D
I



IV/IV-EEE-A



IV/IV-EEE-B



IV/IV-EEE-C