



# POLARIS

*The Right Spark*

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**NEWSLETTER** 

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

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**KITs**

**KKR &KSR INSTITUTE OF TECHNOLOGY & SCIENCES**

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada)  
Accredited by NAAC with "A" grade | Accredited by NBA

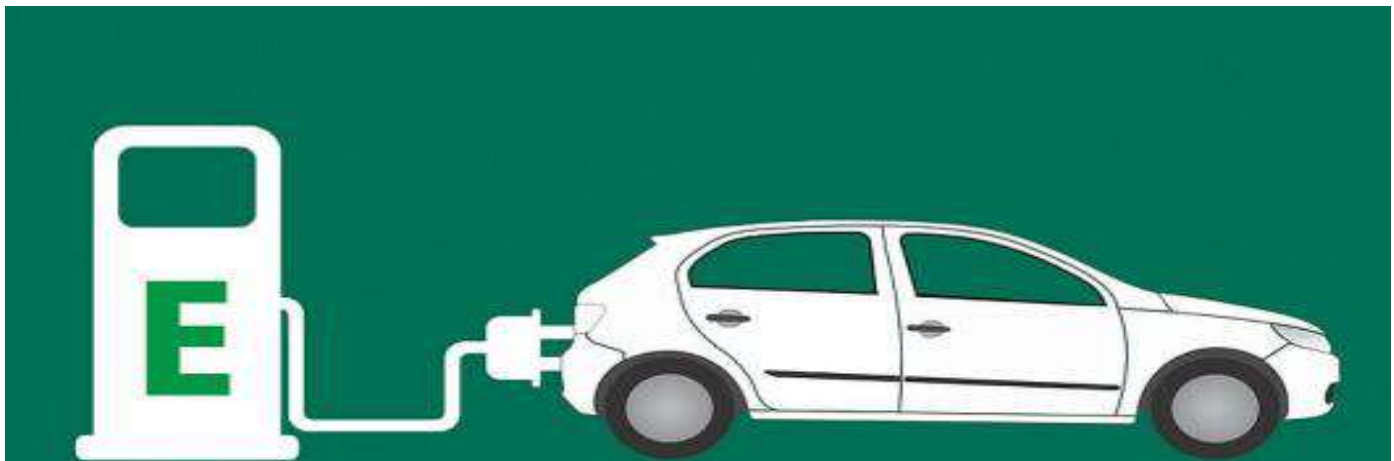
## From Editor's Desk:

An electric vehicle, also called an EV, uses one or more electric motors or traction motors for propulsion. An electric vehicle may be powered through a collector system by electricity from off-vehicle sources, or may be self-contained with a battery, solar panels or an electric generator to convert fuel to electricity. EVs include, but are not limited to, road and rail vehicles, surface and underwater vessels, electric aircraft and electric spacecraft.

EVs first came into existence in the mid-19th century, when electricity was among the preferred methods for motor vehicle propulsion, providing a level of comfort and ease of operation that could not be achieved by the gasoline cars of the time. Modern internal combustion engines have been the dominant propulsion method for motor vehicles for almost 100 years, but electric power has remained commonplace in other vehicle types, such as trains and smaller vehicles of all types.

Commonly, the term EV is used to refer to an electric car. In the 21st century, EVs saw a resurgence due to technological developments, and an increased focus on renewable energy. A great deal of demand for electric vehicles developed and a small core of do-it-yourself (DIY) engineers began sharing technical details for doing electric vehicle conversions. Government incentives to increase adoptions were introduced, including in the United States and the European Union.

India unveiled the 'National Electric Mobility Mission Plan (NEMMP) 2020' in 2013 to address the issues of National energy security, vehicular pollution and growth of domestic manufacturing capabilities. Reiterating its commitment to the Paris Agreement, the Government of India has plans to make a major shift to electric vehicles by 2030. E-commerce companies, Indian car manufacturers like Reva Electric Car Company (RECC), and Indian app-based transportation network companies like Ola are working on making electric cars more common over the next two decades. Apart from this, start-ups like Oculus Auto are working on making electric three wheelers more common over the coming years. Energy Efficiency Services Limited (EESL), a joint venture of PSU's of Ministry of Power, Govt. of India is leading the procurement and sale of Electric Vehicles in India.



**INSTITUTE VISION & MISSION**

**Vision**

To produce eminent and ethical engineers and managers for society by imparting quality professional education with emphasis on human values and holistic excellence.

**Mission**

IM1	To incorporate benchmarked teaching and learning pedagogies in curriculum.
IM2	To ensure all round development of students through judicious blend of curricular, co curricular and extracurricular activities.
IM3	To support cross-cultural exchange of knowledge between industry and academy
IM4	To provide higher/continued education and research opportunities to the employees of the institution.

**DEPARTMENT VISION & MISSION**

**Vision**

Excel in education, research and technological services in electrical engineering.

**Mission**

DM1	Impart quality education to produce globally competent engineers and successful entrepreneurs for meeting the current and future needs of power industry.
DM2	Engage in research and development in cutting edge and sustainable technologies.
DM3	Enhance industrial collaboration and professional ethics to serve the society.

**Program specified Outcomes (PSO'S):**

PSO1	Able to utilize the knowledge of Power Electronics in collaboration with Electrical Machines to provide an engineering solution in the areas related to Electrical Drives.
PSO2	To develop new cutting edge Technologies in Power Systems associated with efficient conversion and control of electrical power.
PSO3	Able to use software for design, simulation and analysis of electrical systems.

## WORKSHOPS:

### 1. Workshop on “Industrial Automation” During 01-07-2019 to 06-07-2019:

The Department of EEE organized a Workshop on “**Industrial Automation**” During 01-07-2019 to 06-07-2019 by **Mr.Himanshu Kumar, INDWELL Automation,Pune** . In this work shop the resource person explained practically about Industrial automation, PLC, SCADA, Industrial Automation procedure, and applications of PLC.



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### 2. Work Shop on “Student solar Ambassadors::1Million Efforts for Mother Earth , an initiative by MHRD and IIT Bombay” on 02-10-2019 :

The department of EEE organized a Workshop “**Student solar Ambassadors::1Million Efforts for Mother Earth**”on 2<sup>nd</sup> October initiated by **Dr. Chetan Singh Solanki (Professor, Department Energy Science and Engineering, IIT Bombay)**.In this work shop the resource person explained about the use of solar study lamp, commonly known as Solar Urja (Energy) Lamp (SoUL) . The SSA 2019 is a part of the **Gandhi Global Solar Yatra** wherein more than 1 Million students will get hands-on training in the assembly of solar study lamps. Come let us Light Solar Lamps.



**3. Work Shop on “A Six day Workshop On Internet of Things (IoT) In association with Andhra Pradesh State Skill Development Corporation (APSSDC) From 25 to 27<sup>th</sup> November 2019(Phase 2)”:**

The Department of EEE organized a Workshop on “**Internet of Things (IOT)** In association with Andhra Pradesh State Skill Development Corporation (APSSDC)” by **Ms. M. Jyoshitha** and **Mr. B. Mahidhar** are trainer cum developers at APSSDC given introduction about installation procedure and working of Prosteus Software, Arduino programming. Rasberry pi and also difference between Rasberry pi and Arduino. Which helps the students in getting a job in future.



**4. Work Shop on “A four day Boot Camp on IoT In association with Mad Blocks From 17<sup>th</sup> to 21<sup>st</sup> September 2019”:**

The department of EEE organized a **A Boot Camp on IoT** program by **Mr. Madhu Parvataneni, Director, Mad blocks** to develop knowledge on IoT in students minds between 17<sup>th</sup> Sep to 21<sup>st</sup> Sep 2019. The objective of the workshop is to enhance the knowledge and skills of the participants on IoT covering the entire spectrum of IoT technology including End to End IoT Architecture, Hardware and Software Platforms for building IoT Solutions and much more.



## GUEST LECTURES

### 1. Guest Lecture on “Drives & SCADA” on 05-07-2019 :

The department of EEE organized a Guest Lecture “**Drives and Scada**” on 05-07-2019 by **Mr. Himansha Kumar, Director , Indwell Automation, Pune**. In this Guest Lecture the resource person explained about PLC, SCADA, Industrial Automation, and applications of PLC.



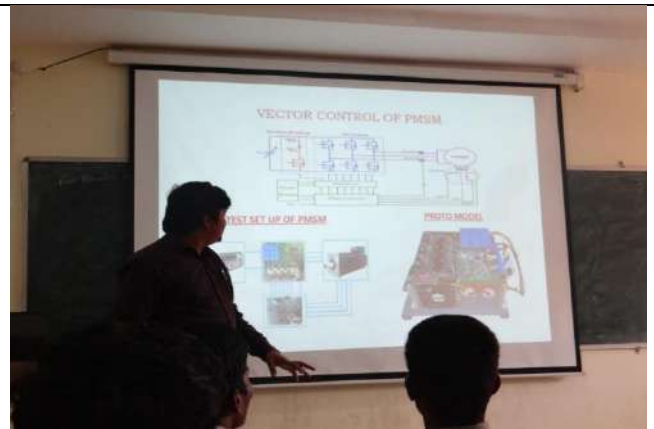
### 2. Guest Lecture on “Power management of solar PV powered micro grid” on 03-08-2019:

The department of EEE organized a Guest Lecture “**Power management of solar PV powered micro grid**” on 03-08-2019 by **Dr. S. Kumaravel, NIT Calicut**. In this Guest Lecture the resource person explained about solar power usage & consumption, micro grid, applications on solar power & it’s working.



### 3. Guest Lecture on “ Wide Band Gap Devices (WBGD) for Power Electronic Converters ” on 26-12-2019:

The department of EEE organized a Guest Lecture on “ **Wide Band Gap Devices (WBGD) for Power Electronic Converters** ” on 26/12/2019 by **Dr. M. Amarendra, Associate professor in Central University of Mizoram** for III/IV B.Tech Students. In this Guest Lecture the resource person explained about Wide Band Gap Devices mostly employed for Power Electronic Converters consumption & micro grid applications.



### 4. Guest Lecture on “Research Opportunities in Electrical Engineering” on 26-12-2019:

The department of EEE organized a Guest Lecture on “ **Research Opportunities in Electrical Engineering** ” on 26/12/2019 by **Dr. M. Amarendra, Associate professor in Central University of Mizoram** for IV/IV B.Tech Students. In this Guest Lecture the resource person explained about present technologies in research, What are the research technologies being used in power systems and What is the future scope of research technologies in Electrical engineering.



## SEMINARS

### 1. A Seminar on “ Career Opportunities after Graduation by Mr.Srinivasa Babu, Manager at Time Institute Hyderabad ” on 5-12-2019:

The department of EEE organized Seminar on “ **Career Opportunities after Graduation by Mr. A. Srinivasababu, Manager at Time Institute Hyderabad** ” on 5/12/2019 for both III/IV & IV/IV B.Tech Students. In this seminar the resource person explained about different opportunities available after graduation like Higher education and Govt Jobs e.t.c.



## HACKATHON

### 1.Hackathon on 30 /09/2019 , 01/10/2019 & 8:10 am to 5:20 pm by Mr. Madhu Parvataneni,Director,Mad blocks:

The department of EEE organized a **36 hours HACKATHON** program by Mr. Madhu Parvataneni,Director,Mad blocks to develop innovative skills in students minds . The main idea behind a Hackathon is to identify a problem and work collaboratively to create technologies that solve that problem. The Hackathon provides an opportunity for participants to make their innovative ideas in to reality.





## **INDUSTRIAL VISITS**

### **Industrial Visit to “440/220KV Substation, Sattenapalli on 30-09-2019”:**




The department of EEE organized an Industrial Visit to “Sattenapalli Substation” On 30-09-2019. In this industrial visit students learned practically about the distribution of power.






## **UNIVERSITY RESULTS**

### **Toppers Year wise**




### **IV-II Results (15JR BATCH)**

SL.NO	REG.NO:	STUDENT NAME	AGGERATE	PHOTO ID
1	15JR1A0205	GUNDMI S NIKHITHA	83.00	
2	15JR1A0228	MOGILSETTY SUBRAMANYAM	83.00	
3	16JR5A0201	KANDULA MADHU LAVANYA	81.00	




### **III-II Results(16JR BATCH)**

<b>SNO</b>	<b>REGDNO</b>	<b>NAME</b>	<b>PERCENTAGE</b>	<b>PHOTO ID</b>
1	16JR1A0217	MADDIREDDY KOTI REDDY	8.71	
2	16JR1A0209	PEDDI DIVYA	8.29	
3	17JR5A0201	MYLA GNANA CHANDRIKA	8.29	




### **II-II Results(17JR BATCH)**

<b>SNO</b>	<b>REGDNO</b>	<b>NAME</b>	<b>PERCENTAGE</b>	<b>PHOTO ID</b>
1	17JR1A0206	KATTA SAI SRI YUKTHA	9.18	
2	17JR1A0205	DODDAPANENI SIREESHA	8.91	
3	18JR5A0201	ARISSETTY SASI KALYANI	8.23	

## I-II Results(18JR BATCH)

SNO	REGDNO	NAME	PERCENTAGE	PHOTO ID
1	18JR1A0201	AKULA MOUNIKA	8.88	
2	18JR1A0220	PULIVARTI HARI CHANDANA	8.64	
3	18JR1A0222	RAMINENI SRAVANI	8.64	

## IV-I Results(16JR BATCH)

SL.NO	REG.NO:	STUDENT NAME	AGGERATE	PHOTO ID
1	17JR5A0204	YARRAGUNTLA THRIVENI	8.91	
2	17JR5A0203	UPPALAPATI BHARGAVI	8.77	
3	16JR1A0217	MADDIREDDY KOTI REDDY	8.50	

## INTERNSHIPS

### 1.RELIANCE RETAIL:

Our final year students named **T.Chittibabu(16JR1A0221)** and **Ch.Chandrakanth (16JR1A0214)** have underwent Internship in **Reliance company** for about 3 months from 21<sup>st</sup> May to 15<sup>th</sup> July 2019 in which they worked as Trainee in all Reliance co-companies and enhanced their practical knowledge in real time world.

### 2.VIZAG STEEL PLANT:

Our 3<sup>rd</sup> year students named **D.Sireesha(17JR1A0205)** , **K.Sai Sree Yukta(17JR1A0206)**, **N.Venkata Deepthi(17JR1A0214)**,**K.Prasanna Lakshmi (17JR1A0210)**, **M. Devi Sowmya Reddy(17JR1A0213)**,**K.Akhila(17JR1A0207)**,**T.Pratyusha(17JR1A0218)**,**K.Manasa(17JR1A0201)**,**B.Gaya -tri(17JR1A0202)**, **Sk.Shaaheen(17JR1A0216)** , **S.Sai Supriya(17JR1A0217)** went for 15 days Internship in **Vizag Steel plant** from 7/12/2019 to 23/12/2019.



## PLACEMENTS

SL.NO	REG.NO:	STUDENT NAME	PHOTO ID	SELECTED COMPANIES
1	17JR1A0201	Ms.M.Gnana Chandrika		<b>IBM(4.25 P.A) &amp; TCS(3.75 P.A)</b>

## NPTEL ONLINE COURSES

### FACULTY ACHIEVEMENTS:

1. NPTEL Advanced courses being recognized by AICTE will be great boost to the teaching. Mrs.M.Divyasree of EEE department completed two courses for this semester.
- 2.

## EDPS ATTENDED

1. **Mr.Y.Rajesh Babu. Asst.Professor**, Attended MeitY sponsored One week Faculty development program on **VLSI chip Design Hands on using Open Source EDA** at KITS, Guntur on 8 th to 12 th July 2019.
- 2.
3. **Mr.Y.Rajesh Babu. Asst.Professor**, Attended MeitY sponsored One week Faculty development program on **Advancements in Signal processing & Optimization Techniques** at KITS, Guntur on 3 rd to 7 th June 2019.
4. **Dr.M.Amarendra(H.O.D)**, Attended MeitY sponsored One week Faculty development program on **VLSI chip Design Hands on using Open Source EDA** at KITS, Guntur on 8 th to 12 th July 2019.
5. **Mr.K.Sarath Bhushan, Asst.Professor**, Attended MeitY sponsored One week Faculty development program on **VLSI chip Design Hands on using Open Source EDA** at KITS, Guntur on 8 th to 12 th July 2019.
6. **Mr.K.Gopi Teja. Asst.Professor**, Attended MeitY sponsored One week Faculty development program on **VLSI chip Design Hands on using Open Source EDA** at KITS, Guntur on 8 th to 12 th July 2019.

## **STUDENT PARTICIPATION OUTSIDE THE COLLEGE**

1. Our 2<sup>nd</sup> year students named **T.Krishna Madhuri (18JR1A0225)**, **S.V.R.Vignesh(18JR1A0247)** participated in **Master Oriented Championship** held at **VVIT**.
2. Our 3<sup>rd</sup> year students named **M. Niharika(17JR1A0212)**, **B.Sai hemasree(17JR1A0204)** , **K.Triveni(17JR1A0209)**, **Vamsi(17JR1A0224)** , **G.Mahendra(17JR1A0229)**, **Dinesh(17JR1A0226)** attended for **IOT workshop** held at **Ashoka Skill Development Institute-Hyderabad**.
3. Our 2<sup>nd</sup> year students named **G.Venkata Ramana (18JR1A0207)**, **M.Pravallika Saisree (18JR1A0214)**, **G.NagaSravani (18JR1A0206)**, **R.Sravani(18JR1A0222)** participated in a two-day workshop organized at **IIT Tirupathi on Artificial Intelligence and Machine Learning**.



## **CULTURAL & SPORTS**

### **1.Volleyball:-**

Our Final year student named **T.Chittibabu(16JR1A0221)** ,and 2<sup>nd</sup> year student **D. Nagarjuna(18JR1A0230)** participated in volleyball competition held at Pace Engineering college-Ongole,KHIT,VVIT,CIET-Mothadaka,Vignan University and finally won **2<sup>nd</sup> place** in **St.Marys Engineering college** with their team.

### **2.Basketball:-**

Our Final year student named **M.Kotireddy(16JR1A0217)** participated in Basketball competition held at Pace Engineering college-Ongole,KHIT, CIET-Mothadaka,Vignan University and finally won **2<sup>nd</sup> place** in **VVIT Engineering college** with their team.

### 3.Cricket:-

Our 2<sup>nd</sup> year student named **P.Bhargav (18JR1A0239)** participated in Cricket competition held at VVIT,CIET,Bapatla,RVR&JC, St.Marys Engineering college, Mittapalli Engineering College and also in Tournaments of Eenadu, AM Reddy,Mokshakundam,NATS won **best bowler award** in NATS.

### 4.Throwball:-

Our 2<sup>nd</sup> year students named **K.L.Priyanka (18JR1A0209)**, **P.Chandana(18JR1A0220)**, **Sk.Karishma(18JR1A0223)**, **A.Priyanka(18JR1A0202)** participated in Throwball competition held at VVIT,Mittapalli Engineering college and won **2<sup>nd</sup> place** in both.

### 5.Kho-Kho:-

Our 2<sup>nd</sup> year student named **B.Bindu priya (18JR1A0203)** participated in Kho-Kho competition held at VVIT,CIET,KLU, St.Marys Engineering college, Mittapalli Engineering College and won **1<sup>st</sup> place** ,KITS and won **2<sup>nd</sup> place** with their team.



### 6.Singing:-

Our 3<sup>rd</sup> year student named **P.Saichaitanya (18JR1A0213)** participated in **State level singing competition held by Rotary club in Guntur and secured 1<sup>st</sup> place** . He also participated in singing competition held at **VVIT and secured first place** and also participated in singing reality show (Bol Baby Bol).

## NEW FACULTY RECRUITMENT

S.No	Name of the Faculty	Designation	Area of Specialization	Date of Joining
1	Mrs. M. Divyasree	Assistant Professor	Power Systems	06/06/2020
2	Mrs. A. Gamyaveni	Assistant Professor	Power System control and Automation Engineering	14/11/2020
3	Bala krishna	Assistant Professor	Power Electronics and Drives	17/06/2020
4	Mr. Raviraja	Lab Technician	ITI	05/06/2020

## FACULTY PUBLICATIONS

1. **Mr.Yalamarti Rajesh Babu. Asst.Professor, K.Mounica, “Power Quality Improvement Features Using Grid Interconnection Of Renewable Energy Sources at the Distribution Level”, International Journal of Engineering Development and Research, Volume 7, Issue 3, 2019.**
2. **Mr.Yalamarti Rajesh Babu. Asst.Professor K.Mounica, “Grid Interconnection Of Renewable Energy Sources At The Distribution Level With Power Quality Improvement Features”, International Journal of Advance Research and Innovative Ideas in Education(IJARIIIE), Vol-5 Issue-4 2019 .**

## COLLEGE CENTRAL EVENTS

### 1.Sports Day:-

Sports day was held on 4th Dec-2019 in college premises our college encourages students not only in studies but also in all round activities to boost up encourage their talents.

