

VOLUME 3

DEC 2018

ISSUE 1



# EEE NEWSLETTER

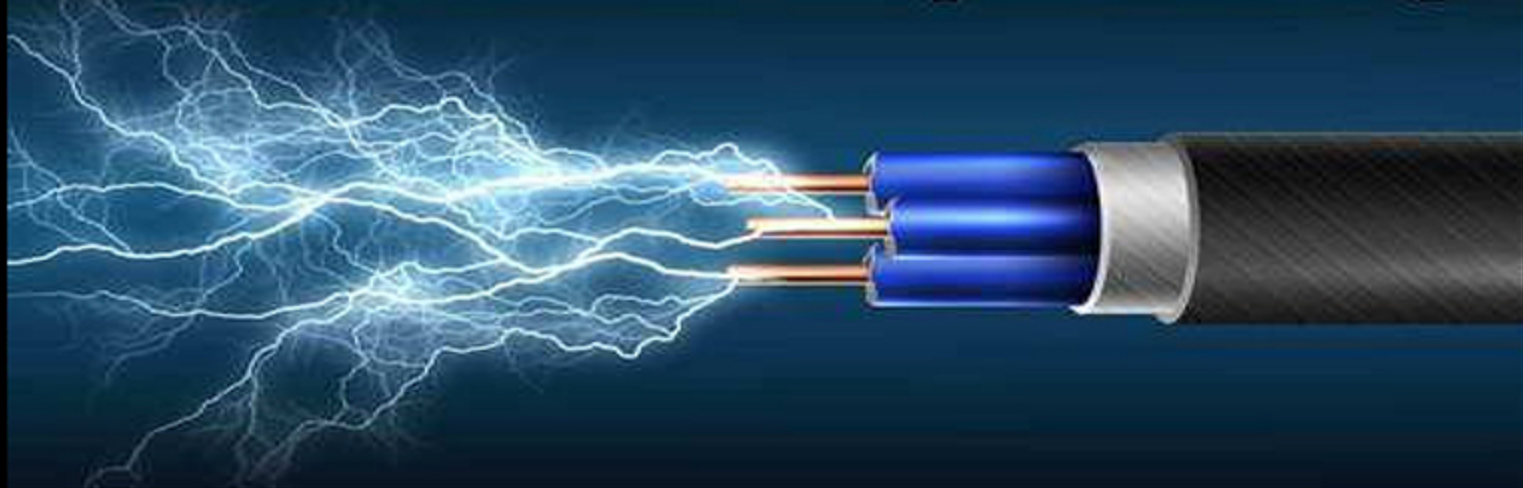
[WWW.JBIET.EDU.IN](http://WWW.JBIET.EDU.IN)

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



**JB**  
Institute of  
Engineering and  
Technology





## Electrical and Electronics Engineering

2018-19 have been memorable year for the JBIET and for our department. In the ever-changing and deeply uncertain world around us, the Electricals and Electronics Engineering department of JBIET continue to be the best among all the departments. The students convene here, as they have always done, to learn, to push at the frontiers of knowledge and to improve the world in which we find ourselves. One of the highlights of the past one year was that our students remain to be most active participants in college events and also in taking up social responsibilities. It is incontrovertible that we are acknowledged to be one of the outstanding department in our college. This is a privilege, a responsibility and a challenge. Other highlights include the Visit to Kaleshwaram Project, the InfoQuest 2k18, Visit to Singur Hydro Power Plant etc. In addition, the activities of Helping Society Foundation founded by one our students, which helped over 2000 poor kids. The pages that follow detail just some of the extraordinary articles written by students of Electrical and Electronics Engineering department. Meanwhile our Lecturers motivate our students to learn, to cultivate their curiosity, and to thrive. In an era in which the value of a university education is increasingly being called into question, the pages that follow attest to the enduring value of what's our mission and what we do.

### PRINCIPAL MESSAGE

The potential energy of this institute is dedicated faculty, committed staff and above all the visionary management well equipped labs, infrastructure modern educational tools digital library and with as such cutting-edge technology, the institute has achieved excellence in performance over the years.

JBIET has been moving ahead with great velocity and veracity to grow an institute of excellence its main focus is to mould the students into professionals with ethical values and skill sets fit for facing the challenges peculiar to engineering.

At the end I wish you all to become successful engineers or entrepreneurs and contribute in the development of our country.

### DIRECTOR MESSAGE

The main focus of the institute was to empower the students with sound knowledge in both soft skills and technical field. The students have got easy learning experience in the college as the institute has dedicated faculty, good infrastructure and lab equipment.

### HOD MESSAGE

Being the builders of nation movers of technology, agents of change, captains of industry, you are the driver of the national progress. You have the onerous role to play, to realize the long-cherished dream of making INDIA very soon a developed country.

"ALL THE FLOWERS OF TOMORROWS ARE THE SEEDS OF TODAY "

"WAVES ARE INSPIRING NOT BECAUSE OF THE RISE AND FALL, BUT THEY NEVER FAIL TO RISE AGAIN"

Head of the Department & Chief Editor: **Dr.T.Govinda Raj**

Design Head: **Mr.A.Shiva Rama Krishna**



## Convocation

Smiles shone on the faces of JBIET Students as they reaped the reward of years of hard work and study. Clad in black caps and gowns, the students of our department have gathered in our campus on 12th July 2018 to celebrate their graduation and farewell. The HOD congratulated each graduate for their Hard Work.

Each year we recognize the achievements of our best and brightest students at the graduation ceremony.



## Induction Program for First Year



A 3-week long induction program for the UG students entering the institution was held between 3<sup>rd</sup> – 25<sup>th</sup> of August, 2018. Normal classes start only after the induction program is over. Its purpose is to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature. The following are the activities under the induction



engaged throughout the day for the entire duration of the program.

1. Physical Activity
2. Creative Arts
3. Universal Human Values
4. Literary
5. Proficiency Modules
6. Lectures by Eminent People
7. Visits to Local Industry
8. Familiarization to Department Innovations

## Inauguration of Basic Electrical Engineering Laboratory



Department of Electrical and Electronics Engineering set up two Electrical Engineering Laboratory in First year Block of the institute. The lab was inaugurated on 3rd August 2018. The laboratory was well equipped with various Electrical and Electronic equipment as per AICTE model curriculum.

## Seminars and Workshop Organised by Department of Electrical and Electronics Engineering

- Seminar on **Energy Transfer between Two Capacitors & Design of Wattmeter** was held at MNR auditorium on 17th July 2018 organised by Department of Electrical and Electronics Engineering. The Resource person was **Mr. Shyam Sharma**, Senior Faculty, TIME Institute, Hyderabad. The occasion was graced by more than 80 students.

- Department of Electrical and Electronics Engineering organised a webinar on **Traction Motor Performance Degradation Due to Demagnetization** on 19th July 2018 at Electrical and Electronics Engineering seminar Hall. Students of Third and Final years of EEE Participated. **Mr. John Wanjiku**, Mentor was the resource person.

Mr. John Wanjiku spoke in depth about the concept of design Electric motors for Traction applications.

- A one day workshop on **Internet of Things with ARDUINO** was conducted by **Mr. Bharath Kumar**, Pantech Solutions Pvt. Ltd., Hyderabad, on 05th October 2018, under care of EEE Department. About 120 students registered for the workshop. Topics on modern Internet of Things (IoT) technology, based on Arduino and Android development were dealt in detail. The course was tailored to an in-depth introduction to Arduino hardware and lessons covering up to an intermediate level of programming. Students will be exposed to MIT App Inventor, to create apps without prior



Seminar delivered by **Mr. Shyam Sharma**, Senior Faculty, TIME Institute, Hyderabad





- Seminar on Recent Trends in Batteries was held on 03rd August 2018. Mr. S. Rathna Kumar, Assistant Professor, JBIET highlighted the development of future batteries, issues regarding battery energy storage its testing, quality analysis & battery management, new trends in applications (Smart Grid, Smart MICRO GRID, Smart House, Electric Vehicles), Materials & methods of manufacture of lead acid batteries.



Speech delivered by Mr. Bharath Kumar

### Webinar on Traction Motor Performance Degradation Due to Demagnetization



Seminar on Recent Trends in Batteries

### Workshop on Internet of Things with ARDUINO



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# Industry- Institute Interaction



Better interaction between Technical institutions and industry is the need of the hour. This will have great bearing on the Engineering Curriculum, exposure of industrial atmosphere to engineering students and subsequent placement of young graduating engineers in industries across the country. With the advent of globalization and opening up of Indian economy to outside world, competition among industries has become stiff. To solve their engineering problems they look up now to engineering Institutions. Similarly, there is an urgent need to prepare engineering students for jobs in multinational companies, by exposing them to newer technologies and engineering methodologies. These objectives can only be achieved well by bridging the gap between industry and the academic institute.

## To Promote Industry – Institute Interaction Following Schemes are Being Undertaken

- Arranging in-plant training, industrial visit, expert lectures based on the requirements.
- Facilitating the Faculty members to visit the industries and get exposure on industrial practices.
- To assist the Departments in organizing workshops, conferences and symposia in collaboration with industries and take up industry supported mini projects and projects.
- Facilitate the faculty members to involve in consultancy activities.
- To create 'Centre for Excellence' and R&D Laboratories with the support of Industries.
- Arranging for MoUs between the institute and industries.
- Arranging for students training on latest technologies and also on soft skills and inviting the industries for campus recruitment.

## Industrial Visits Organised by Department of Electrical and Electronics Engineering

- Industrial Visit to **"Kaleshwaram Lift Irrigation Project"** by IV year EEE students on 3rd August 2018. Around 100 students of final year EEE visited Kaleshwaram Lift Irrigation Project previously known as (Pranahita-Chevella Lift Irrigation Project) is an under-construction multi-purpose irrigation project on the Godavari River in Kaleshwaram, Bhoopalpally, Telangana, India. By this Industrial Visit Students got knowledge about the Main Canal & its usefulness to the villages of Telangana as well as its benefits & importance for the people of different states.
- An industrial visit to **"Singur Hydro Power Plant"** was organized by the department on 05th September 2018 for 120 students of Electrical and Electronics Engineering. Overall it was very learning experience and this kind of visit will definitely help the students to understand



### 'కాళేశ్వరం' సందర్శన

కాళేశ్వరం, ఆగస్టు 03 : కాళేశ్వరం ప్రాజెక్టును సందర్శించి కాశీడి డివీజన్‌కు చెందిన 100 మంది ఇంజనీరింగ్ విద్యార్థులు స్వచ్ఛంద సమితిగా పాటు పైదరాబాద్ నుంచి ఇంజనీరింగ్ విద్యార్థులు సందర్శించి ప్రాజెక్టు పరిస్థితులను అధ్యయనం చేశారు. సిద్ధిపేటకు చెందిన సూర్య వెల్మర్ ఆనెసియేషన్, సామాజిక సేవా సంస్థకు చెందిన సుమారు 70 మంది కార్యకర్తలు అక్కడకు బ్యారేజీని సందర్శించారు. ప్రాజెక్టు డీజి యూనిట్ వీరికి ప్రాజెక్టు విశిష్టతను వివరించారు. పైదరాబాద్ లోని జోగపల్లి బావుర్ ఎన్జనీయర్స్ ఆఫీస్ ఇంజనీరింగ్ అండ్ టెక్నాలజీ



definitely help the students to understand various technical aspects and application of subjects' viz. Power Houses, Turbines and construction features of Power Plant.



Industrial visit to Singur Hydro Power Plant

Industrial Visit to Kaleshwaram Lift Irrigation Project



## GALLERIES



IEEE Student Branch

VITAL





School Code : 41380423 Branch Code : 62231

- IEEE student branch is to foster the technical knowledge among students from all walks of life. "Does not matter what degree are they pursuing, all the students are eligible to join IEEE as a student member so long as they are pursuing a degree with 50% of the Full time. It's a worldwide established technical society, not to mention it's the biggest of course" To have an IEEE student branch in an institution brings credit to the institution, since IEEE is the top most professional body in the world. Students of the first batch have taken the initiative in forming the IEEE students branch in the year 2001-2002, with 45 members. the students of the subsequent batches have taken the initiative in getting the branch recognized by IEEE in 2002-2003 and in increasing the membership. Provision is made for IEEE members to access the IEEE Digital library, Weekly meetings of IEEE students Members Achievements include Debates, Group Discussions, Paper Presentations, Guest Lectures etc.



Students visited on the occasion of "IEEE-STB-Green Energy Initiative Program" 27th August 2018



## Memorandum of understanding (MoU)

Strong links with the industry and continues to receive generous support that proves to be of immense value in arranging training to the students to strengthen their technical & personal skills.

Sl. No.	Name of Organisation	Date	Purpose of MoU
1.	HMI Engineering Services, Visakhapatnam	01.08.2018	Training programs (Technical & Non-technical)
2.	Focus Academy for Career Enhancement, Coimbatore	19.07.2018	e-learning course, Career enhancement program

## Board of Studies

We are proud to say that JBIET is granted with Autonomous status by UGC and we are happy to say that there is a facility to change the curriculum as per the need of Industry. The BOS of ELECTRICAL & ELECTRONICS ENGINEERING is involving Industrial experts as BOS members for their suggestions to change curriculum.

## Recent Board of Studies Activities



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Sl.NO.	Date	Minutes of Meeting
1.	29.05.2018	To approve the R18 course structure for I B.Tech (EEE) and Syllabus content of Basic Electrical Engineering and Basic Electrical Engineering Laboratory for I B.Tech, I Semester (CE,ME,CSE & IT)& I B.Tech , II Semester (EEE,ECE & ECM)
2.	16.08.2018	To approve the R18 course structure and syllabus for M.Tech (Electrical Power Systems)
3.	30.10.2018	To approve the R18 course structure and syllabus for B.Tech (II Year) To approve the R16 course structure and syllabus for B.Tech (IV Year)

## Students Achievements and Articles

UDACITY | Google

Google India  
Challenge  
Scholarship

RECIPIENT

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### Udacity-Google India Scholarship

We're delighted to announce that **Gollamudi Surya Teja** is one of this year's recipients of the Udacity-Google India scholarship. This Scholarship was awarded to 350 recipients out of 10000 students who demonstrated exceptional levels of coding skills and enthusiasm.

**Let us look at what he says about this achievement.....**

This year, I was lucky enough to get selected for Front End Web Development Nano degree.

This scholarship is being provided by Google in partnership with Udacity. Udacity is a platform which provides lifelong learning for millions to acquire new skills they need for the jobs they want. I am Surya Teja and I am going to share my experience with you so far.

**//Hi Surya Teja,**

We are excited to offer you a Google India Challenge Scholarship for the Front End Web development track. We received applications from many talented and motivated candidates, and yours truly stood out.

There were approximately 10000 students in phase 1. It was a three month program. We also took part in various activities such as Quizzes, Copy Layout Challenge, and Collab Projects etc. There were 3 projects to be completed with no strict deadlines.

Except the core course, we also learned many new things like Version Control System, Git, GitHub and Open Source Projects. We even made some collaborative projects which are available on GitHub.

**//Hi Surya Teja,**

You have earned a full 6-month Google India Developer Nano degree Scholarship to FrontEnd Web Development!

Out of tens of thousands of students in the Google India Challenge Scholarship, your progress in the course and dedication in the community really stood out. We've been impressed and we're excited for you to continue the journey and grow even stronger as a developer!

In the full Nano degree program, you'll build off your earlier coursework, receive support from a personal mentor in your classroom, submit projects for official review and feedback, and earn a Udacity Nano degree credential upon successful completion of all of your projects.

The three month hard work done in phase 1 started to reflect in phase 2. We got a personal mentor for any type of help. We needed to submit the projects and wait for the mentor to review and pass it.

Apart from Nano degree, we also enjoyed extra benefits such as meetups, swag winning challenges and many more



One thing that I learned from it is constant learning that has earned me this opportunity. The main things I learned from 2018 is to be successful one must be dare enough. Dear enough to pretend for something privileged and not simply accessible. Of course, the skills and knowledge of the pretender must also be high. But the best things in the world not always belong to the cleverest people.

However, do not think that getting scholarship from Google is an easy task ,It is very hard and intensive work. Sometimes I even had sleepless nights I suppose that one must prove his professionalism and persistence each time during his life.

### Advice to my juniors

“My advice would be to apply to all the scholarships you're qualified for – even those you aren't completely sure about. You'll also quickly notice there are some scholarships that completely fit your experience and profile and when you're applying to those, don't miss the opportunity for self-exploration that may help define some personal and career goals.”

## The Orators' Club

Orators Club is an initiative taken by a group of students of JBIET among which 4 of them are from EEE department **Ashish Thomas Mathew, VNS Kali Prasad , G Surya Teja& C Sai Vamshi**, this club provided a stage for the students to come out and speak to overcome their stage fear and also improve their skills.



This club mainly focuses on personal and soft skills development of a student which includes impromptu speaking , Jam sessions , and debates. As the name suggests, the members of this club are expected to come up forward and orate. This club conducted 4 events till now and has attracted the attention of the college . We expect a lot more successful events from the Club.

## Helping Society Foundation

One of Our students **Shusheel Kumar** has started an Organisation to help the poor kids by giving them books and also visiting many hospitals and providing the patients with supplements.

Started as a small group of friends, now they have founded an organization all on his own, he doesn't want publicity out of these things, he says he does this for his own satisfaction.

### Let's have a look on what he says about this:

Successful Project of Helping Society Foundation "Bring A Book And Make A Child Future"

It would not have been possible to make it such a huge success without "God's Mighty Blessings". It started with an idea of making "Best out of waste". The main motive was to collect unused waste papers like Newspaper, books, magazines, etc., and recycling these waste paper into new note books which can be donated to the students in few backward villages. Our Aim was to help these students in their education in whatever way we can. Thanks you to each and every member who supported us in this project. Lot of hard work involved. Thank you to each and every school and college which supported us. Visited so many schools and colleges bringing awareness of recycling work and explaining the motive of this project and seeked help from them in collecting waste paper and unused notebooks. HSF team great job done. Though we have faced few issues initially but we have ended up donating 5000 books to 1500 Students. Districts visited...Vikarabad, Medak, Mancheria, Sanga Reddy, Mahabub Nagar, Bhadrachalam, and Kothagudem East Godavari.



One Project 6 Months of Struggle 8 Districts 20 Schools 1500 Students 5000 Note books....  
Go HSF..... Many more projects to come ahead.....



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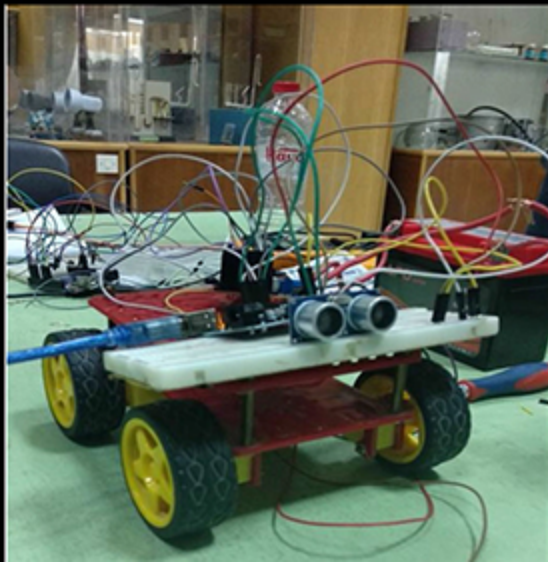
## International Internship

We're delighted to announce that **Ashish Thomas Mathew** is one of this year's recipients of the AIESEC International internship.

Let us look at what he says about his experience .....

My experience in Egypt was facilitated by AIESEC. AIESEC is an international non-governmental, not-for-profit organisation that provides international internship opportunities to the youth worldwide. As a part of this experience, I was a part of one of the most unique leadership development programs called the GLOBAL VOLUNTEER Program. The Global Volunteer program is an intensive international volunteer abroad experience that provides students with an opportunity to work on projects to further the agenda for sustainable growth and development. It is aimed at empowering communities through personal collaboration of the youth in working towards the Sustainable Development Goals of the United Nations. The project I worked on was based on the 9th Sustainable Development Goal, which dealt with Industry, Innovation and Infrastructure. It was a robotics engineering project where we applied the knowledge that we had on the related subjects and built a working prototype for the given project, which was a robot that could locate itself in a room. The end results, as well as our team which worked on the project are shown below.

## Memories in EGYPT





Keeping all the good scenery and memories aside this experience is one that I'm glad that I had taken up as I got to learn more about who I was as a person and how to deal with different social situations. It had helped me develop as a person on the whole and gave me whole new outlook on a lot of different parts of life. I even got to gain a lot of skills that would help me in my professional life. In the end what matters are the experience gained and the impact that you have made wherever you go. An exchange with AIESEC is one such opportunity to be able to do so.

If you are interested in going on an exchange, the link for the AIESEC website is: <https://aiesec.org/>

## Entrepreneur



## GALLERIES

We're happy to announce that one of our Post-Graduate student **Mr. Mohammed Akbar Ansari** has started a company in Hyderabad and named as Electromation Technologies. The company has become a trusted solution provider on Industrial Automation, Electrical design, Industrial control panels, Elevator controls panels, Energy Management, Power Quality Solutions, Training and Placement Services through leveraging technology.

## An article from Rameshwar Landge 4th Year

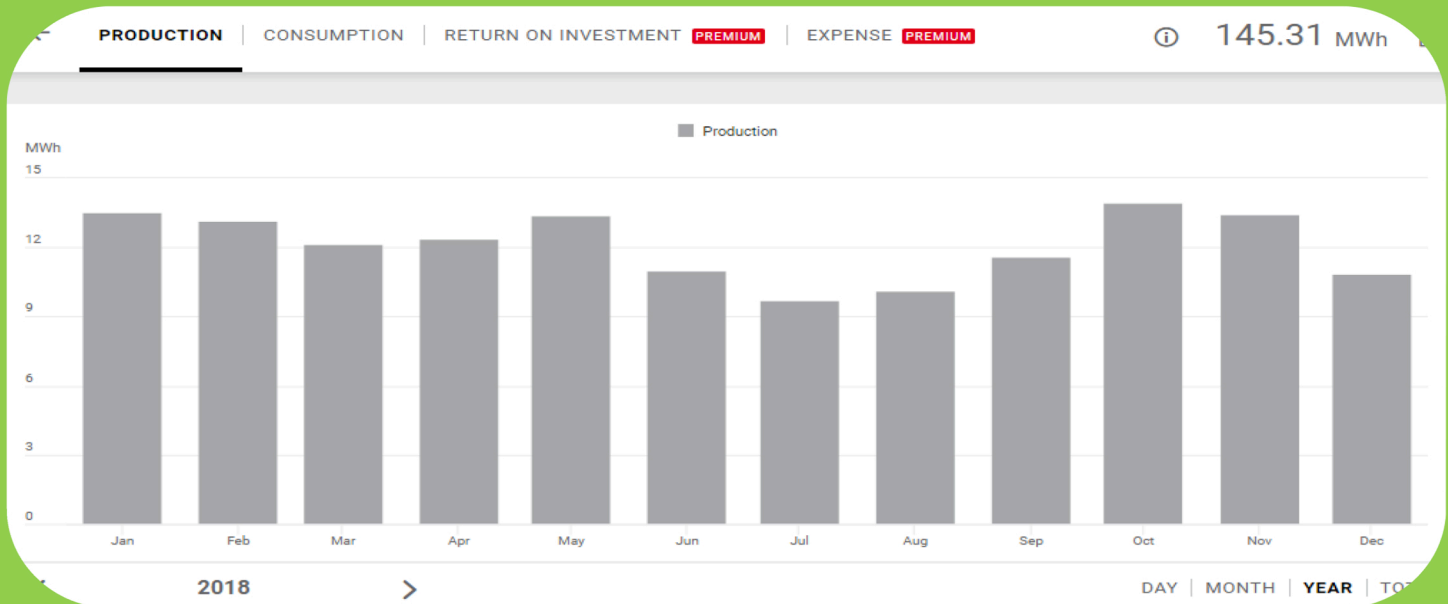
In life there are only two type of people , those who are working for their goals and those who are working for someone else's goals, There are those who are feel responsible for their life and those who believe they are at the mercy of the circumstances ,There are those who read the success stories of successful men and there are those who work harder and write their own story There are those who say we must wait for the right opportunity and there those who attack Life head on, The one who wait will always be waiting, but the one who attacks will make things happen! , There are those who are uncertain about their future and there are those who know where they are going! There are passengers and then there are Captains! The Captain is never unsure, the captain is decisive! he knows what he wants and he GETS it! The Captain doesn't take orders or directions; He knows where he is going. So are you the **CAPTAIN** of your own life? and do you know where you are going? and if you don't lead your life to the position / the place you want be, you will never get there! You will be lost in the maze of life, so set the standards of your life, and don't wait!, remember this quote "Losers Lose and Winners Win". So never waste your time on unnecessary things, because it is worth more than anything in this world.



## 100 kW Solar PV Plant at J.B Institute of Engineering and Technology

- JBIET has taken initiative in promoting green energy concepts in its campus.
- In its pursuit to become energy efficient, J.B Institute of Engineering and Technology, Bhaska Nagar, Moinabad, Hyderabad, Telangana formally commissioned a 100 kW solar PV plant on 26th February 2016. This project is one of the best among all the JNTUH affiliated colleges in Telangana.
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## Energy Generation in 2018



## MEMORIES

### Teachers Day Celebration in the Dept. of Electrical and Electronics Engineering in 2018



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## Class Counselling Meeting in the Dept. of Electrical and Electronics Engineering in 2018



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## Dasara Celebration in Dept. of Electrical and Electronics Engineering in 2018



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