



# BHARAT

## INSTITUTE OF ENGINEERING & TECHNOLOGY

NAAC Accredited; NBA Accredited for UG Programmes  
Approved by AICTE New Delhi & Affiliated to JNTUH, Hyderabad  
Ibrahimpattam - 501 510, Hyderabad, Telangana.



### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

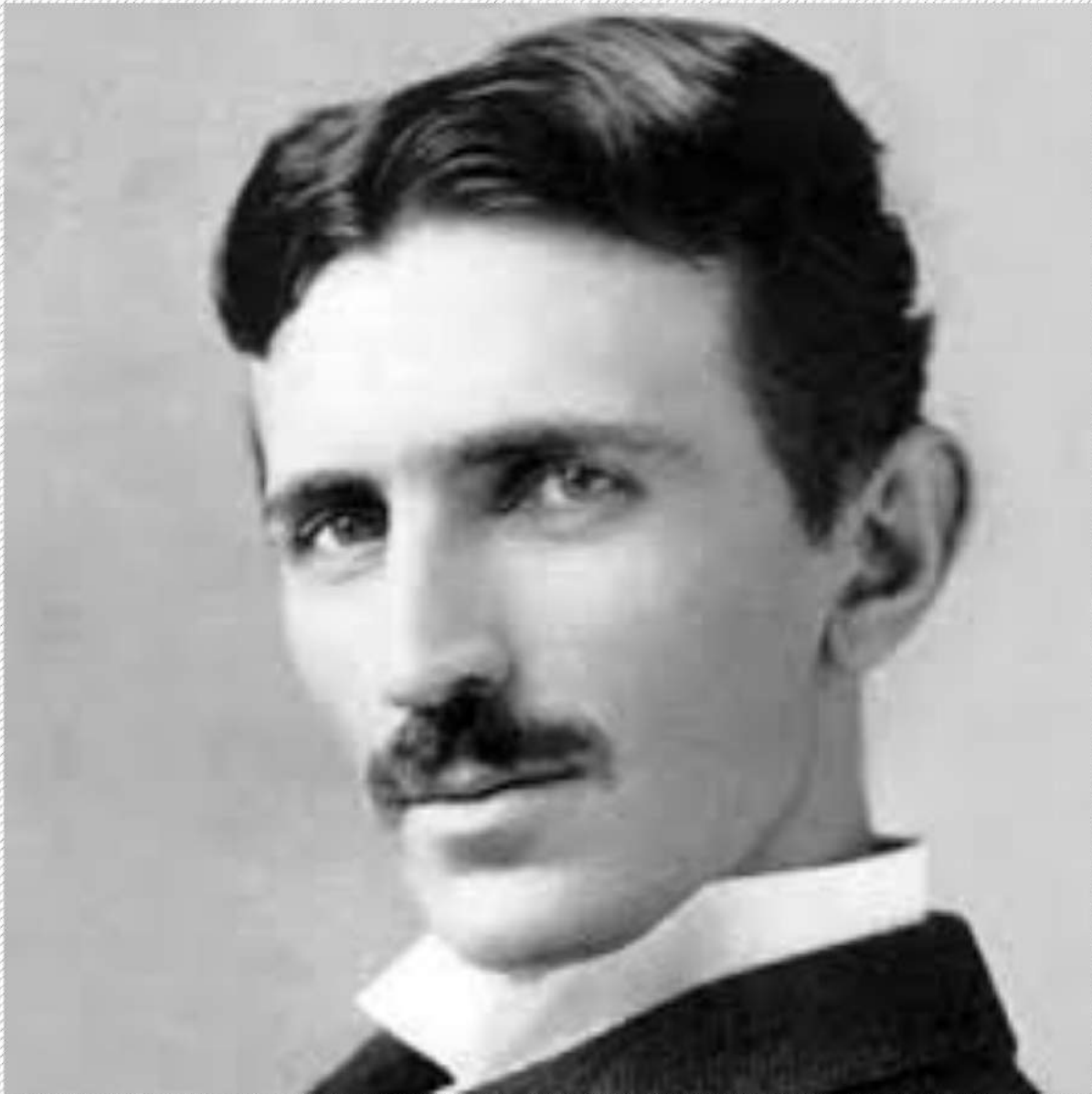
PRESENTS


# EXOUZIA 2020

FEBRUARY  
28 & 29TH







I'DON'T CARE THAT THEY STOLE MY  
IDEA..   
I CARE THAT THEY DON'T HAVE ANY  
OF THEIR OWN.



## **VISION AND MISSION OF THE INSTITUTION**

### **Vision of the Institution:**

To achieve the autonomous & university status and spread universal education by inculcating discipline, character and knowledge into the young minds and mould them into enlightened citizens.

### **Mission of the Institution:**

Our mission is to impart high quality education, in a conducive ambience, as comprehensive as possible, with the support of all the modern technologies and make the students acquire the ability and passion to work wisely, creatively and effectively for the betterment of our society.

## **VISION AND MISSION OF EEE DEPARTMENT**

### **The Vision of the department of Electrical and Electronics Engineering:**

To impart engineering education of the highest order, producing technically competent and socially responsible engineers.

### **The Mission of the department of Electrical and Electronics Engineering:**

To give advanced knowledge and training to students, enabling them to acquire the necessary technical and soft skills that are essential for a career in engineering and management.

To make the teaching-learning process exciting and effective by creating the necessary facilities for the same.

## **PROGRAM EDUCATIONAL OBJECTIVES: (PEOS)**

### ***Program Educational Objectives:***

#### ***(PEO1)***

The graduates of Electrical & Electronics Engineering program will have good foundation in mathematics, science and engineering fundamentals required to comprehend, analyze, formulate solutions for real life engineering problems and enable them to pursue higher studies and/or to find entry level positions in industries.

### ***Program Educational Objective 2:***

#### ***(PEO2)***

The graduates of Electrical & Electronics Engineering program will acquire skills of effective communication skills, leadership, team work, multi-disciplinary approach and an ability to provide engineering solutions in a broader societal context.

### ***Program Educational Objective 3:***

#### ***(PEO3)***

The graduates of Electrical & Electronics Engineering program will have an awareness of excellence, ethical codes and guidelines and the life-long learning needed for a successful professional career



# About EEE Department

WE ARE THE POWER OF THE WORLD

Let the peace be amplified World be rectified

The Department of Electrical and Electronics Engineering started in the year 2001, with an intake of 120 students. The department is accredited by NAAC. The department is an intrinsic part of Bharat Institute of Engineering and Technology, and is the core stream ever. The department has set global standards in academics to promote Quality technical education.

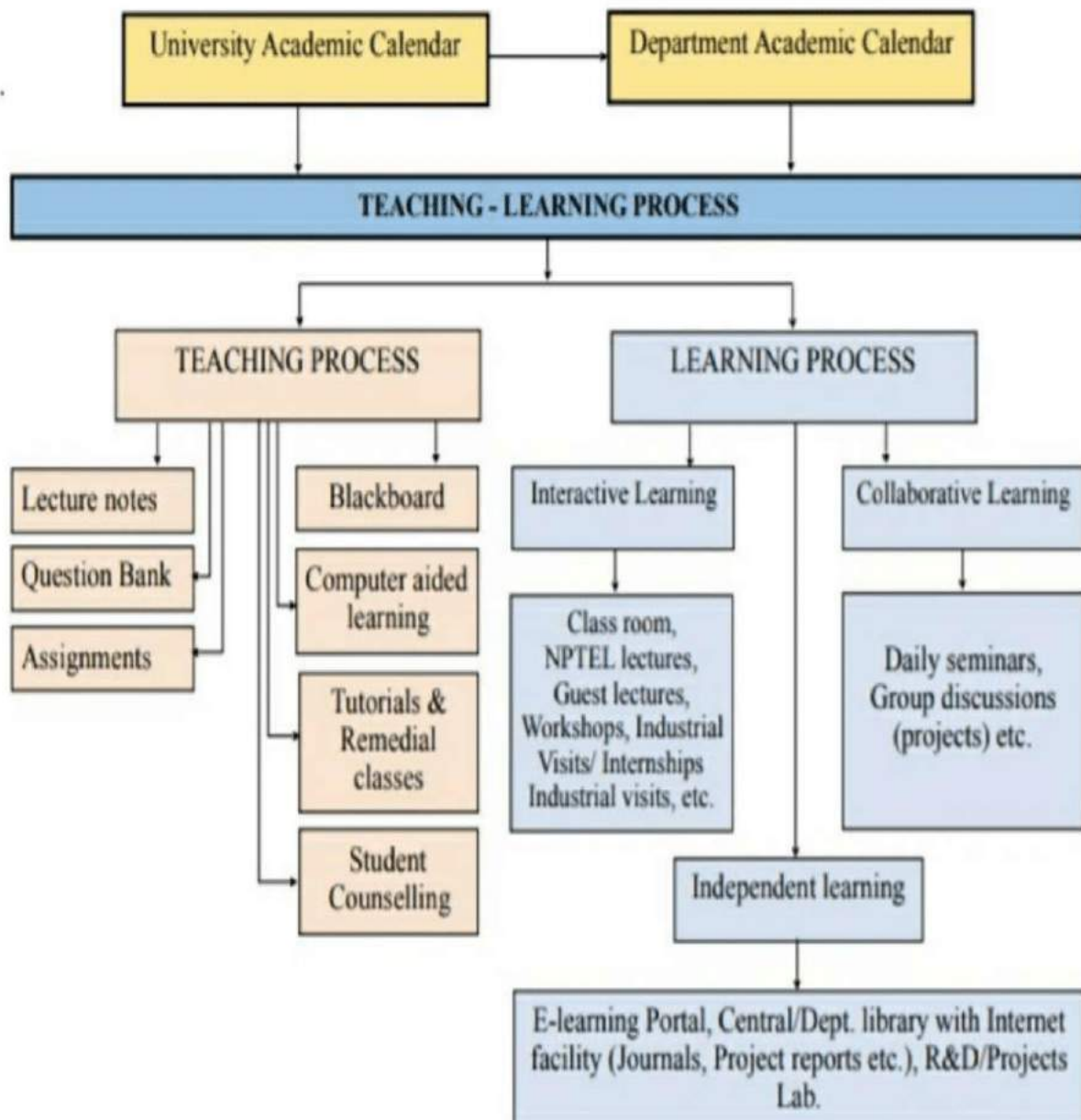
To meet challenges of globalization with the state of art equipment's, laboratories and Conducive environment exists in the department. Department of EEE is organizing various training programs to enhance the technical skills of the student. A purposeful Research and Development atmosphere is established to fetch the research activities by the students and faculty.

Since inception, the department has well experienced and committed faculty who continuously strives for the benefit of the students, their progressive development and equally balances both ethical values as well as personality development of the student community. Faculty of the department continuously encourages the students to get involved in industrial visits, internships, industry interactions, societal activities, Government initiations etc...





# ***EEE Department Teaching-Learning Process***





# **INDEX**

I. MESSAGES

II. DEPARTMENT INITIATIVES

III. FACULTY LIST

IV. PROFESSIONAL BODIES

V. WORKSHOPS, GUEST LECTURES & INDUSTRIAL VISITS.

VI. LABORATORIES

VII. R&D CONTRIBUTION

VIII. COLLABORATION WITH INDUSTRY

IX. PROJECTS

X. PLACEMENTS

XI. FACULTY INNOVATIONS

XII. PROJECT DAY

XIII.SPORTS

XIV. ART GALLERY

XV. NSS ACTIVITIES

XVI.GALLERY

XVII.IGNITRA 2K19





## SRI CH. VENU GOPAL REDDY

(CHAIRMAN BIET)

IT GIVES ME IMMENSE PLEASURE TO NOTE THAT THE DEPARTMENT OF EEE IS ORGANIZING ITS STUDENT ASSOCIATION EXOUZIA-2020 TECHNICAL FEST ON 28TH AND 29TH FEBRUARY 2020. I AM SURE THIS EVENT WILL DRAW TALENT FROM ALL OVER THE STUDENT'S FRATERNITY AND CREATE A GREAT LEARNING EXPERIENCE FOR ALL PARTICIPANTS. BIET BELIEVES IN VALUE BASED EDUCATION AND ALLOWS ENGINEERS TO STRENGTHEN THE SOCIETY ETHICALLY. SINCE ITS INCEPTION IT IS STRIVING HARD TO MEET THIS GOAL AND I WISH THIS EVENT WOULD ALSO ADD VALUE TO THE INSTITUTION'S VISION. I APPRECIATE THE EFFORT UNDERTAKEN BY THE DEPARTMENT OF EEE IN ORGANIZING THIS EVENT AND I WISH THEM ALL A GRAND SUCCESS.





## DR. J. BHAGWAN REDDY

PH.D  
HOD OF EEE DEPARTMENT

THE VISION OF THE DEPARTMENT IS TO IMPACT EDUCATION OF THE HIGHEST ORDER, PRODUCING TECHNICALLY COMPETENT AND SOCIALLY RESPONSIBLE GLOBAL ENGINEERS.

THIS IS BEING ACHIEVED THROUGH THE ENDEAVORS OF HIGHLY MOTIVATED AND WELL QUALIFIED FACULTY USING EXCELLENT INFRASTRUCTURE, INDUSTRY INSTITUTION INTERFACE, R&D ACTIVITIES LATEST TECHNOLOGY AND TOOLS.

ADVANCED KNOWLEDGE AND INDUSTRY JOB ORIENTED TRAINING AND RESEARCH ACTIVITIES ARE BEING IMPARTED TO THE STUDENTS ENABLING THEM TO ACQUIRE ALL THE SKILLS THAT ARE ESSENTIAL TO BECOME SUCCESSFUL

ENGINEERS, MANAGERS OR ENTREPRENEURS. THE STUDENTS ARE ENTHUSIASTIC AND WELL-MOTIVATED. THEY ARE CURRENTLY ORGANIZING AN INTERESTING AND INNOVATIVE TECHNICAL

FEST ENTITLED "EXOUZIA-2020". I WISH THEM SUCCESS IN THIS ENDEAVOR.



## S.M. RAW

Chief Of Placements

I congratulate all EEE students for organising "EXOUZIA 2020" EEE Fest.

PLACEMENT CELL IS COMMITTED TO BUILD CARRIER OF STUDENTS IN THEIR RESPECTIVE DOMAIN. OUR TEAM STRIVES HARD IN BRINGING COMPANIES TO CAMPUS ACROSS SPECTRA TO MAP THEIR TALENT.

THERE HAS BEEN UPWARD SWING IN TERMS OF NUMBER OF PLACEMENTS OVER THE YEARS AND STUDENTS ARE BEING PLACED IN BEST OF THE BEST COMPANIES IN CORE AND NON CORE SECTORS WITH A REASONABLY GOOD PACKAGE.

IN ORDER TO EXCEL STUDENTS NEED TO MASTER THEIR SKILL SETS TO MAKE THEIR FUTURE HAPPEN. THE FUTURE IS BRIGHT FOR ALL OF YOU AS MORE AND MORE JOB OPPORTUNITIES ARE BEING CREATED BY PRIVATE AND PUBLIC SECTOR UNDERTAKINGS.

WE ARE THERE TO PROVIDE WINGS, TO MAKE YOU FLY!!!  
ALL THE BEST AND WISH THE EVENT A GRAND SUCCESS!!!



# MAGAZINE COMMITTEE



M. Rudra Sai Prasad



V. Venkataramana



V. Sampath Kumar, Asst. prof  
EEE Dept.



T. Vinay Kumar



R. Sai Venkat



# SOLAR TREE



**K.Srinivas Rao**  
(Project guide)

Installed capacity: 1KW  
Grid-Tied: OFF System  
Panel Specifications:  
Open Circuit Voltage: 21.5V  
Short circuit current: 3.71A  
Maximum power: 60W  
Maximum power voltage: 17.5V  
Maximum power current: 3.5A

## Project Batch



**M.Vaibhav**



**K.Sravan kumar**



**V.Digna Reddy**

- k.Rani
- M. Prashanth
- J.Yashwanth Reddy
- K.Yadatha
- R.Prudhvinath
- K.Ambika
- D.Mani
- D.Sai kumar



Solar street lighting in campus



# BIOGAS PLANT



- It is a green technology which will convert waste into energy.
- We have installed  $2\text{m}^3$  Biogas plant of double burner chulla.
- Input feed capacity is 10kg of canteen waste.
- The obtained energy can be utilized 3 to 5 hours per day.



# FACULTY LIST

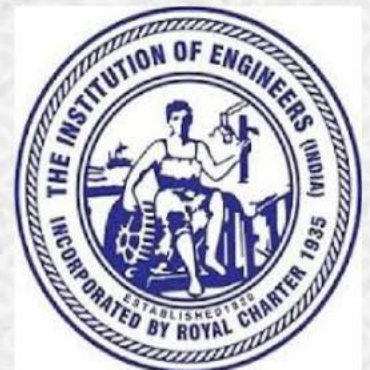
S.NO	NAME OF THE FACULTY	QUALIFICATION	DESIGNATION
1	Dr. J. Bhagwan Reddy	PhD	Professor
2	Dr.Ch.Santhan Kumar	PhD	Associate Professor
3	Dr. Madhirasan	PhD	Assistant professor
4	Dr. B. Praveen Kumar	PhD	Assistant Professor
5	Mr.Ramji Tiwari	PhD	Assistant Professor
6	Mr.K.Srinivasa Rao	MTech,(PhD)	Assistant Professor
7	Mr.Rohit Babu	MTech,(PhD)	Assistant Professor
8	Mr.G.Kamalaker Reddy	MTech,(PhD)	Assistant Professor
9	Mr.P.Sravan Kumar	MTech,(PhD)	Assistant Professor
10	Mr.T.Sukanth	MTech,(PhD)	Assistant Professor
11	Ms.S.Marlin	M.E,(PhD)	Assistant Professor
12	Mrs.G.Abhilasha Reddy	MTech	Assistant Professor
13	Mr.K.M.Perumal	MTech,(PhD)	Assistant professor
14	Mr.V Sampath kumar	MTech,(PhD)	Assistant Professor
15	Mr.Basava Reddy	MTech	Assistant Professor
16	Mr.Rahul Kumar	MTech,(PhD)	Assistant Professor
17	Mr. G. Srikanth	MTech,(PhD)	Assistant Professor
18	Mr. G. Karunakar Reddy	MTech	Assistant professor
19	Mr. Avinash Bethlam	M.Tech	Assistant Professor
20	Ms. Sowmya Kuberappa Paraddi	ME	Assistant Professor
21	Mrs. B. Vijaya Lakshmi	MTech	Assistant professor
22	Mr.Roshaiah	M.Tech	Assistant Professor
23	Mr Varun Raj	M.Tech	Assistant Professor
24	Mr. P. Sravan Kumar	M.Tech	Assistant Professor
25	Ms Mounika	M.Tech	Assistant Professor
26	Mr.S.Vijay	MTech	Assistant Professor
27	Mrs.G.Sumana	MTech	Assistant Professor



# PROFESSIONAL BODIES

With an aim to emphasize value based education and to provide aid in terms of research and development, the department of EEE is making special efforts by being a part of professional societies in Institute of Engineers(INDIA) and Institute of Electrial and Electronics Engineers.

- we were being the part of the Institute of Engineers(INDIA) since 2014-15.
- we were being the part of the ISTE Since 2017-18 i.e. Twenty one faculty members and 100 students are being part of it.
- Two faculty members are being AMIE.
- Six faculty members are being IETE.
- One faculty members are being ISRD.
- Two faculty members and 31 students are being a part of IE(I)society.
- Four faculty members are existing and in the IEEE





# WORKSHOPS CONDUCTED

The Department of Electrical and Electronics Engineering, Bharat Institute of Engineering and Technology, Hyderabad has organized "Two days Hands-on Workshop on “Electrical Switchgear and its Applications” on 18th and 19th December, 2019.

The Department of Electrical and Electronics Engineering, Bharat Institute of Engineering and Technology, Hyderabad has organized "Two days Hands-on Workshop on “Electrical Switchgear and its Applications” on 18th and 19th December, 2019 by Research and Development Cell and ISTE Chapter of BIET with Eminent Trainers Mr. Shivanand D V BE Elect & Mr. Basavesh Shetty S D, dbson UNIVERSAL POWER CONTROLS, Tumkur Karnataka. This workshop provides the practical exposure to students with connections of electrical switchgear systems and their applications, which motivated students and faculty focus their research work toward industry requirement lead more placement opportunity.

## OUTCOMES OF WORKSHOP:

- 1) To enhance the participants practical knowledge and skills.
- 2) To acquire training on Electrical Switchgear, applications and practical demonstration.
- 3) To promote students develop an industry oriented project.
- 4) To enhance the placement opportunity.



## Two days workshop on “Industrial Automation with Emphasis on PLC&SCADA” on 15/11/2019 and 16/11/2019.

The Department of Electrical and Electronics Engineering, Bharat Institute of Engineering and Technology, Hyderabad organized two day Workshop on “Industrial Automation with Emphasis on PLC & SCADA(IA-2k19)” by Mr.R.Krishna Chaitanya, Founder, R K Automation, Guntur. This workshop covers the basics of industrial automation which creates awareness about application of PLC & SCADA for the domains of engineering.

“It’s not about ideas, it’s about making ideas happen.”





## One day seminar on “Exploring the Opportunities in Core Sector” on 09/11/2019.

The Department of Electrical and Electronics Engineering, Bharat Institute of Engineering and Technology, Hyderabad organized One day Seminar on, “Exploring the Opportunities in Core Sector” in association with Hyderabad Institute of Electrical Engineers, Eminent Speaker Mr. Madan Mohan, Co-Founder, HIEE and Ms. Bhavya shared their knowledge to the gathering. This one day seminar enabled III and IV year students to get awareness about hidden job opportunities in electrical sector. “The ladder of success is best climbed by stepping on the rungs of opportunity.”



## One day workshop on “PLC Programming & Software Practice” on 08/11/2019.

The Department of Electrical and Electronics has organized workshop on “PLC Programming & Software Practice”, by Sri Anand Warriar, Senior Manager, Sri Amit Rao, Technical Head, SMEC Automation Private Limited for final year EEE students.





## One day workshop on “Higher Education in Foreign Countries & career Counseling” on 6/11/2019.

The Department of Electrical and Electronics Engineering conducted workshop on “Higher Education in Foreign Countries & career Counseling” held on Dt. 6-11-2019 organized by Sri. Daniel KM, IIM, Kolkata, Director, Sri. Satish Yadav, Ms, Swathi Priyanka & Sri. Raja, Managers Ischoolconnect at BIET.



## One day seminar on “ Field Based Research for Industrial Growth” on 23/10/2019

The Department of EEE has organized seminar on “ Field Based Research for Industrial Growth”, by P.G.S. Kumar, Director (technical), MRTG Power Diagnostic Tests Pvt. Ltd. Hyderabad

- To create awareness about the challenges in an industry project and industry oriented research area.
- To promote students to develop an industry oriented project and patent the proposed project.
- To enhance the placement and entrepreneur opportunity.





## GUEST LECTURE ON “MODERN TECHNOLOGIES IN INDIAN RAILWAYS”, 16th FEBRUARY 2019

- The Department of Electrical and Electronics Engineering has organized a Guest lecture on “Modern Technologies in Indian Railways” by Er. C. Anand, Divisional executive Engineer/TRD Electric Loco-shed, South Central Railways, Secunderabad on 16.02.2019. Co-ordinated by Dr. J. Bhagwan Reddy, Professor in EEE. attended by 2nd and 4th year B. Tech. (EEE) Students and Dr. Gouda Academic I/C EEE also present.



## Guest lecture on transition from class room to control room by Mr.B.KOTI REDDY scientific officer-G Department of Atomic Energy on 1st Feb-2020.





# INDUSTRIAL VISITS

## Industrial Visit to Nagarjuna Sagar Power Plant (21/09/2019)

The Department of EEE has organized an industrial visit for II and IV EEE students to Nagarjuna Sagar power plant which straddles the border between Guntur District and Nalgonda District constructed between 1955 and 1967.

Capacity: 11.56km<sup>^</sup>

Turbines: 1\*110MW Francis turbine, 7\*100.8MW reversible Francis turbines

Height: 124metres(407ft from river level)

Length: 1,500 Metres.

Power Generation Capacity: 815MW with 8 units.

The students have been given elaborate knowledge about:

1. Hydroelectricity
2. Governor actuator system
3. Hydraulic pressure supply system
4. Turbine control servomotors
5. Hydro mechanical Kaplan speed control unit
6. Peed Control System
7. 11/132 kv switch yard





# INDUSTRIAL VISIT OF KOTHAGUDEM THERMAL POWER STATION(KTPS)

Primary fuel: Coal

Nameplate capacity: 2,460 MW

Units operational: 3 X 60 MW; 4 X 120 MW; 2 X 250 MW; 1 X 500 MW; 1 X 800 MW



# INDUSTRIAL VISIT OF METRO RAIL-UPPAL (18 Feb-2020)







## Industrial visit of National Remote Sensing Centre, NRSC-Jeedimetla (24 feb-2020)





# LABORATORIES



**ELECTRICAL MACHINES  
LAB**



**CONTROL SYSTEMS  
LAB**



**SIMULATION  
LAB**



**M.Tech Lab-Power Converters  
and Drives Lab**



**POWER ELECTRONICS  
LAB**



**POWER SYSTEMS  
LAB**





**ELECTRICAL CIRCUITS  
LAB**



**ELECTRICAL MEASURING  
INSTRUMENTS  
LAB**



**ELECTRICAL WORKSHOP  
LAB**



**PROJECT LAB**



**Research & Development Lab**



**BASIC ELECTRICAL  
ENGINEERING LAB**



# R&D CONTRIBUTION

Department of EEE is actively engaging in research areas ranging from practical implementation to theoretical investigations. The main activity is to gear up B.Tech & M.Tech students under JNTUH curriculum through course and laboratory works in R&D direction. Department of EEE is subdivided into three areas like academic, development & research work and all these are being combined to achieve appropriate goals with the help of administrative support.

## PUBLICATIONS SUMMARY

ACADEMIC YEAR: 2019-2020

S.No	List of authors	Title of the paper	Name of the Journal/Conference/Book	Year of Publication	Indexing
1	Mr. Muruga Perumal	Optimum design of hybrid renewable energy system through load forecasting and different operating strategies for rural electrification	Sustainable Energy Technologies and Assessments	2020	SCIE
2	Mr. Muruga Perumal	Optimum design and analysis of HRES for rural electrification: a case study of Korkadu district	Soft Computing	2020	SCI
3	Dr. B. Praveen Kumar	Performance improvement of solar PV array topologies during various partial shading conditions	Solar Energy	2020	SCIE
4	Dr. M. Madhwaran	Modeling and Implementation IoT Based Transmission Line Monitoring, Protection and Control	Water and Energy International	2019	Scopus
5	Mr. T. Sukanth	Improvement of Power Quality using DVR by Different Control Techniques	International Journal of Recent Technology and Engineering (IJRTE)	2019	Scopus
6	Dr. Santhan Kumar Ch	A PSO based MPPT Technique for PV System under Dynamically Changing PSC	International Journal of Recent Technology and Engineering (IJRTE)	2019	Scopus
7	Dr. B. Praveen Kumar	Integrated Probabilistic Relevancy Classification (PRC) Scheme for Intrusion Detection in SCADA Network	Lecture Notes in Networks and Systems	2019	Scopus
8	Dr. J. Bhagwan Reddy	Design of Roof top Solar Photovoltaic System	8 th world conference on Applied sciences, Engineering and management	2019	-
9	Dr.Arulprakash Andigoundar	Smart Card Based E-Car Battery Charger	Proceedings of NATIONAL CONFERENCE ON FAST EMERGING TRENDS IN ENGINEERING AND TECHNOLOGY (NCOFEET-2K19)	2019	-
10	Dr.Ramji Tiwari	RBFN Based Mppt Control With Quadratic Boost ConverterFor PV Applications	Proceedings of NATIONAL CONFERENCE ON FAST EMERGING TRENDS IN ENGINEERING AND TECHNOLOGY (NCOFEET-2K19)	2019	-
11	Dr.N.Naga shekara Reddy	DECOUPLED ACTIVE AND REACTIVE POWER CONTROL OF GRID CONNECTED DFIG	Proceedings of NATIONAL CONFERENCE ON FAST EMERGING TRENDS IN ENGINEERING AND TECHNOLOGY (NCOFEET-2K19)	2019	-
12	Dr. J. Bhagwan Reddy	RELIABILITY ASSESMENT OF GRID CONNECTED SOLAR PHOTO VOLTAIC SYSTEM	Proceedings of NATIONAL CONFERENCE ON FAST EMERGING TRENDS IN ENGINEERING AND TECHNOLOGY (NCOFEET-2K19)	2019	-
13	Mr. Muruga Perumal	Techno Economic Analysis of Hybrid Renewable Electrification System in Different Climatic Zones	International Conference on Emerging Trends in Electrical, Communications, and information Technologies (Springer Lecture Notes in EE)	2019	Scopus



# COLLABORATION WITH INDUSTRY

**RK Automation has signed a MOU with the Department of Electrical and Electronics Engineering, BIET on 16/11/2019.**

The Department of Electrical and Electronics Engineering, BIET has signed a MOU with RK Automation to conduct the summer training for B.Tech students on PLC & SCADA, Workshops, and Guest lectures for a period of three years.



**UNIVERSAL POWER CONTROLS (DBSON) signed an MOU with Bharat Institute of Engineering and Technology on 13/11/2019.**

Karnataka leading company UNIVERSAL POWER CONTROLS (DBSON), Plot No.22, Sathyamangala Industrial Area, Tumkur, Karnataka, INDIA, Pin Code - 572104 signed an MOU with Bharat Institute of Engineering and Technology, Hyderabad on 13th November 2019. Based on this MOU organizing various programs to bridge the gap between college and industry and thereby enhancing the employability of emerging workforce.





**Hyderabad Institute of Electrical Engineers signed an MOU with the Department of Electrical and Electronics Engineering, BIET on 9/11/2019.**

The Department of Electrical and Electronics Engineering, BIET has signed an MOU with Hyderabad Institute of Electrical Engineers (HIEE), Hyderabad to provide industry-oriented training in electrical discipline to fill the gap between industry needs and students academic skills. This MoU was signed to promote Placements, Internships, Workshops and Projects





# PROJECTS

- The following are the list of Projects done by the final years students for academic year 2019-2020 as MINI PROJECTS

Roll No	Student Name	Title of the Project	Batch No	Name of the Guide	
16E11A0221	JEENDRU NAVYA	GENERATION OF 3-PHASE SUPPLY FROM DC SOURCE FOR RUNNING ASYNCHRONOUS MOTOR USING MATLAB SIMULATION	1	Dr.Arul Prakash	
16E11A0230	MARAM SANDEEP KUMAR REDDY				
16E11A0244	SANKAPELLY SAI PRASANNA				
15E11A0280	MANDATI SAI				
17E15A0205	BARI NAVEEN	AIR & SOUND POLLUTION MONITORING SYSTEM	2	Dr. Ramji Tiwari	
17E15A0215	PAMPANA SATYAVATHI				
16E11A0217	GARRE NIKHITHA				
16E11A0234	TOORPU SUDHARSHAN REDDY				
17E15A0204	MANDLI VAMSHIDHAR REDDY	SPEED CONTROL OF PMSM FOR ELECTRIC VEHICLE APPLICATION	3	Mr.G.Karunakar Reddy	
16E11A0213	GADDAM VINITHA				
16E11A0219	GUNTI MEGHANA				
16E11A0231	THOTA T.AKHIL				
17E15A0201	AKULA DEVARAJ	MODELLING OF BRUSHLESS DC MOTOR FOR ELECTRICAL VEHICLE APPLICATION	4	Mr.T.Sukanth	
16E11A0209	BEJJANKI RAJESH				
16E11A0223	KAMMAMPATI LOKESH KUMAR				
16E11A0210	BOINI VINAY KUMAR				
16E11A0222	JINDAM ANIRUDH	HOME AUTOMATION UISNG GOOGLE ASSISTANT AND IoT DEVICE	5	Mr.Basava Reddy	
16E11A0242	PUTKAM AJAY REDDY				
17E15A0217	TENUGOLLU KEERTHI				
16E11A0235	NAGAPURI NAGAPURI RAVITEJA				
16E11A0227	LOKASANI SHIVANI	MODELING OF A THREE PHASE INDUCTION MOTOR USING MATLAB/SIMULINK	6	Mr.Rahul Kumar	
17E15A0207	RANJEETH KUMAR				
16E11A0212	ETIKALA SUNIL REDDY				
15E11A0219	G.SAI SANDEEP				
17E15A0202	KURA RAJASHEKAR	INTELLIGENT GARBAGE AND SEWAGE MONITORING SYSTEM	7	Mr.Rohit Babu	
17E15A0208	MOTHUKU AJAY YADAV VEERABHAGANI VENKATA				
16E11A0250	RAMANA				
16E11A0241	POTHUREDDY JEEVAN REDDY				
31	16E11A0270	JALLAPALLI RAHUL			
32	16E11A0296	SAMA SWAMY	MODELING OF 1KW INDUCTION TYPE WIND GENERATOR	8	Mr.V Sampath kumar
33	16E11A0265	GANNE SWAPNA			
34	16E11A0291	PANNALA DEEPIKA			
35	16E11A0294	SABAVATH GANESH			
36	15E11A0283	M JIBRAN	GRAVITY DRIVEN ELECTRICITY GENERATION MECHANISM	9	Mrs.G.Abhilasha Reddy
37	16E11A0252	AAVULA SUSHMA			
38	16E11A0262	GOUNI PEDDAREDDY			
39	16E11A0281	MANDULA NARAHARI			
40	16E11A0288	NALLA SAINISHANTH	DESIGN OF ROOP TOP SOLAR PHOTO VOLTAIC SYSTEM FOR BIET CAMPUS	10	Dr. J.Bhagwan Reddy
41	16E11A0259	DEVARAKONDA VINEETH KUMAR			
42	17E15A0233	ERAPAGU HEMALATHA			
43	16E11A0263	GAMIDI RAKESH			
44	16E11A02A0	THADAGOPPULA VINAY KUMAR	FAULT DETECTION AND CLASSIFICATION OF TRANSMISSION LINES	11	Ms. Soumya
45	16E11A0253	AERVA PAVANKALYAN REDDY			
46	16E11A0264	GANDU SANJANA			
47	17E15A0218	PAGIDUJU SAI KUMAR			
48	17E15A0232	BILLAPATI SRI PRIYA			



16E11A0215	GANTA NARESH REDDY	<b>SOLAR POWERED PORTABLE MOBILE CHARGER</b>	8	Dr.Praveen Kumar
17E15A0216	PEDDI MADHURI			
16E11A0220	GURRALA SANTOSH REDDY			
16E11A0251	VENNAPUREDDY SRAVAN KUMAR			
16E11A0238	PAGIDOJU MADHUMITHA	<b>ENERGY AUDIT FOR BHARAT COLLEGE</b>	9	Mr.B.Avinash
16E11A0247	SYED AMER			
17E15A0203	MARGAM NARESH			
16E11A0233	REDDY			
17E15A0210	MOHD.ABDUL REHAN	<b>IMPROVING THE EFFECIENCY OF SOLAR PANEL BY TRACKING SYSTEM AND ITS APPLICATIONS</b>	10	Mr.G.Kamalaker Reddy
16E11A0225	KASARLA POOJITHA			
17E15A0213	BODALLA RAMU			
16E11A0208	BANOTH CHAITANYA KRISHNA NAIK			
17E15A0212	SUMAN	<b>SKIN RESPONSE METER</b>	11	Mr.Sravan Kumar
17E15A0209	DHARAVATH ANIL			
16E11A0236	DESHPANDE NIKHIL			
16E11A0218	GOLI SNEETHIKA REDDY			
17E15A0211	BONDILI CHARAN SINGH	<b>WIRELESS DATA TRANSMISSION OF LIGHT SIGNALS TO AUDIO SIGNALS USING LIGHT FIDELITY (LI-FI) TECHNOLOGY</b>	12	Mr.K.M.Perumal
16E11A0211	DESHMUKH ROHINI			
16E11A0204	TIRUMALA ASHWINI			
16E11A0245	SARSANI VISHLESHA			
16E11A0203	ARDHA TEJASHWINI	<b>MIMO DC TO DC CONVERTER</b>	13	Ms.S.Marlin
16E11A0246	SINGAM SINGAM SAI KIRAN			
16E11A0226	KETHAVATH RAVINDER NAIK			
17E15A0214	KARUPAKALA SHRAVANI			
15E11A0245	P SAICHARAN			

S.NO	Roll No	Student Name	Title of The Project	Batch No	Name of the Guide
1	16E11A0254	AISHWARYA VERMA	<b>MODELLING OF SWITCHED RELUCTANCE MOTOR FOR ELECTRIC VEHICLE APPLICATION</b>	1	Dr.Ch. Santhan Kumar
2	17E15A0234	GUGULOTH SHIRISHA			
3	16E11A0255	ANNABATHINI SHANMUKHA SAI			
4	17E15A0229	JONNALA BHARATH RAJ			
5	16E15A0207	THANDU DILEEP KUMAR			
6	17E15A0226	MIDDELA NIKHITHA	<b>MATLAB/SIMULINK BASED PERFORMANCE ANALYSIS OF ASYNCHRONOUS GENERATOR FED FROM RL LOAD WITH AC/DC/AC CONVERTER</b>	2	Dr. Madhilarasan
7	17E15A0219	GOPARI SANDEEP			
8	17E15A0236	BHUPALLY PRAVEENA			
9	16E11A0269	JONNALAGADDA YATISH			
10	16E11A0274	KURVA JAGAN	<b>EFFECT OF PARAMETERS ON PERFORMANCE OF STANDALONE PV SYSTEM</b>	3	Mr.K.Srinivasa Rao
11	16E11A0261	DURGAPATHI DURGAPATHI SAI TEJASVI			
12	17E15A0220	NALLA LINGAM GOUD			
13	16E11A0279	MADALA SHIVANI			
14	15E11A0276	L SRINIVAS	<b>SMART LOAD SHIELDING</b>	4	Mr.Srikanth
15	17E15A0235	ANNADEVARA USHASRI			
16	16E11A0299	TONDA NARESH			
17	16E11A0266	GOLIPLLI SAI MAHESHWAR			
18	17E15A0222	NEELAKANTAM SAI PAVAN KUMAR	<b>STATE ESTIMATION OF ELECTRIC POWER SYSTEM</b>	5	Ms.Jyoshna
19	16E11A0258	BATTULA LAXMI			
20	16E11A0256	BAIREDDY SANTHI PRIYA			
21	17E15A0223	TADABOYANA SRIKANTH			
22	17E15A0221	BUSHIREDDY RANJITH REDDY	<b>DESIGN AND IMPEMATATION OF TCSC FOR 500 KV POWER TRANSMISSION SYSTEMS</b>	6	Mrs.B.Vijaya Lakshmi
23	16E11A0285	MUKKARIGARIS SREEVANI			
24	16E11A0275	KOTHAKONDA SAI NAVYA			
25	16E11A0280	MALLOJU AKHIL			
26	17E15A0224	KANDAKURTHI NITISH			
27	16E15A0210	G SAI KUMAR	<b>TRAFFIC LIGHT CONTROL SYSTEM USING ARDUINO UNO</b>	7	Mr.B.Vasanth Reddy
28	16E11A0298	SOPPARI SHIVANI			
29	16E11A0295	SABHAVATH RAJU			
30	17E15A0230	VENNAPUSA SAIDIVYA			
31	16E11A0270	JALLAPALI RAHUL			



# PLACEMENTS

## BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY PLACEMENTS DURING THE YEAR 2019- 2020

S.No.	Name	Roll.No.	Branch
<b>COMMLABS</b>			
1	B Chaitanya Krsihna	16E11A0208	EEE
1	Nikhil Deshpande	16E11AO236	EEE
3	Aishwarya Verma	16E11A0254	EEE
4	Mukkarigaris Sree Vani	16E11A0285	EEE
<b>Aliens Group</b>			
5	M. Vamshidhar Reddy	17E15AO204	EEE
<b>HCS GLOBAL</b>			
6	B. Chaitanya Krishna	16E11A0208	EEE
7	B. Rajesh	16E11A0209	EEE
8	Garre Nikhitha	16E11A0217	EEE
9	Gunti Meghana	16E11A0219	EEE
10	Jeendru Navya	16E11A0221	EEE
11	Lokasani Shivani	16E11A0227	EEE
12	Akhil Thota	16E11A0231	EEE
13	Sai Prasanna	16E11A0244	EEE
14	Venkata Ramana	16E11AO250	EEE
15	Gopu Sai Sandeep	15E11A0219	EEE
16	Vinay	16E11A02A0	EEE
<b>Qspiders</b>			
17	Sanjana	16E11A0264	EEE
<b>ETHNUS</b>			
18	Sai Prasanna	16E11AO244	EEE
19	Aishwarya Verma	16E11A0254	EEE
20	S. Ganesh	16E11A0294	EEE
<b>ASK IT SOLUTIONS</b>			
21	T. Akhil	16E11AO231	EEE
22	V. Venkata Ramana	16E11A0250	EEE



# Faculty Innovations

Contributions of BIET EEE Department Faculty towards inculcating innovative means in Teaching and Learning are clearly elucidated both in our Department Records and on the Institute Website for peer review and critique. Our work is open to be enhanced or reproduced. Some of our inclusive ways are attractive presentations, interesting videos and mini projects, practice programs, contents beyond syllabus, assignment questions and quizzes, tutorial sessions especially for problematic and programming subjects, results analysis through interactive feedback, so forth. Proofs of the stated are comprehensively documented.

To improve the level of understanding in students, the following innovative teaching approaches are undertaken by the institution.

- **ICT Supported Learning**

<http://www.sakshat.ac.in/>  
<http://cec.nic.in/>  
<http://nptel.ac.in/>  
<http://fossee.in/>  
<http://www.co-learn.in/>

- **Google class room**
- **Power point presentations**
- **Role play**
- **Group Projects**
- **Group Discussion**
- **Short presentations**



# PROJECT DAY

- Department of Electrical and Electronics Engineering organized Project Day-2K19 On 13th April, 2019 and the prizes were awarded by our chief judge Mr.M.P.Bannibagi ISDS,Assistant Director National Skill Training Institute,Former ATI-EPI,Hyderabad.



Runners at  
BIET Hackathon  
30-01-2020





# SPORTS

## WINNERS OF KABADDI AT SPL 2K20



## CRICKET WINNERS AT MVSR



## WINNERS OF KABADDI AT KPRIT



## CARROM'S WINNER AT PALLAVI ENGINEERING COLLEGE





*Caromms runner at Sreenidhi  
Institute of Science  
& Technology on 27-09-2019*



*Kabaddi Runner at SNIST on 27-09-2019*



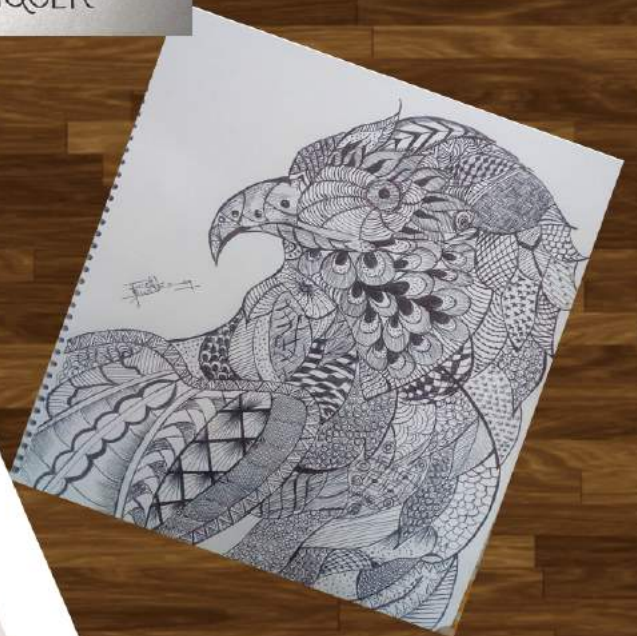
**IN A NEW AVATAR**



# ART WORK









# NSS ACTIVITIES

## TREES PLANTATION AT BIET





# **GALLERY**

## **FACULTY**



**4th YEARS-A**



**4th YEARS-B**





## 3rd YEAR-A



## 3rd YEAR-B



## 2nd YEARS





# 1st YEARS



Faith is like electricity.  
You can't see it, but you  
can see the light.



# IGNITRA 2K19 MEMORIES



**BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(APPROVED BY AICTE, BLOCCD BY GOVT OF TELANGANA, AFFILIATED TO JNTU-H  
BANGALURU, INDIA) DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRESENTS

**PROJECT EXPO**

Exclusively for IInd, IIInd and IVth Years  
Participation Fee: 700/-

Event Date: 20th March

Faculty Co-Ordinators: Mr. V. Sampath Kumar, Ms. B. Santhoshi  
Student Coordinators: Suman - 954921677, Devaraj - 955210079, Rajasekhar - 9542844922, Charan Singh - 9502952090, Rehan - 868858962

Follow us on: ignitrak@gmail.com, ignitra\_2k19

**BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(APPROVED BY AICTE, BLOCCD BY GOVT OF TELANGANA, AFFILIATED TO JNTU-H BANGALURU, INDIA) DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRESENTS

**ELECTRIC FUN**

Participation Fee: Team (3 Members) - 50/-  
Per Head - 15/-

Event Date: 20th March

Faculty Co-Ordinators: Mr. V. Sampath Kumar, Ms. B. Santhoshi  
Student Coordinators: Anishwarya Verma, K. Sai Naveya

Follow us on: ignitrak@gmail.com, ignitra\_2k19

**BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(APPROVED BY AICTE, BLOCCD BY GOVT OF TELANGANA, AFFILIATED TO JNTU-H BANGALURU, INDIA) DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRESENTS

**TECHNICAL QUIZ**

Participation Fee: Team (3 Members) - 50/-  
Team Members - 15/-

Event Date: 20th March

Faculty Co-Ordinators: Mr. V. Sampath Kumar, Ms. B. Santhoshi  
Student Coordinators: Rehan - 954921677, Nikhil - 955210079, Vinita - 9540281404, Anirudh - 9515058336

Follow us on: ignitrak@gmail.com, ignitra\_2k19

**BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(APPROVED BY AICTE, BLOCCD BY GOVT OF TELANGANA, AFFILIATED TO JNTU-H BANGALURU, INDIA) DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRESENTS

**PRASTHUTHI (POSTER AND POWERPOINT PRESENTATION)**

Event Date: 20th March

Participation Fee: For 5th & 10th Sem (2 Members) - 150/-

WIN EXCITING CASH PRIZES..

Faculty Co-Ordinators: Mr. V. Sampath Kumar, Ms. B. Santhoshi  
Student Coordinators: Swapna - 09989744121, Ganesh - 07095617944

Follow us on: ignitrak@gmail.com, ignitra\_2k19

**BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(APPROVED BY AICTE, BLOCCD BY GOVT OF TELANGANA, AFFILIATED TO JNTU-H BANGALURU, INDIA) DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRESENTS

**IDEATHON**

-Think Out of the Box-

• Technical Based "STARTUP IDEAS".  
• Solutions for Drawbacks in Technical Field.

Participation FREE for all the Students.

Event Date: 20th March

Faculty Co-Ordinators: Mr. V. Sampath Kumar, Ms. B. Santhoshi  
Student Coordinators: Nikhil Deshpande - 07842245905, Venkata Ramana - 09451418873

Follow us on: ignitrak@gmail.com, ignitra\_2k19

**BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(APPROVED BY AICTE, BLOCCD BY GOVT OF TELANGANA, AFFILIATED TO JNTU-H BANGALURU, INDIA) DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRESENTS

**ELECTRIC MUSEUM**

Free ENTRY

• Know the History of Electric Background.  
• Come and Experience the Revolutions at ONE PLACE.  
• From Starting Era to Modern Era in Electrical Field.

Event Date: 20th March

Faculty Co-Ordinators: Mr. V. Sampath Kumar, Ms. B. Santhoshi  
Organised By: IInd EEE Students

Follow us on: ignitrak@gmail.com, ignitra\_2k19



**BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(APPROVED BY AICTE, SECOD BY GOVT. OF TELANGANA, AFFILIATED TO JNTU-H)  
HANGALPALLY, MEDAK DISTRICT, TELANGANA  
PIN-501510 | TEL: 08142323133 | WEB: WWW.BIET-AC.IN

**WIN EXCITING PRIZES**

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRESENTS**

# CRAFT OUT OF BOX

**BEST Out of WASTE**

**Participation Fee: 50/-**

**Faculty Co-Ordinators:**  
Mr. V. Sampath Kumar  
Ms. B. Santhoshi

**STUDENT COORDINATORS:**  
B. Praveen - 9981534846  
Suryani - 9989744121  
T. S. R. Divya - 9918297824  
B. Sri Priya - 99133671320

**FOLLOW US ON:**  
IGNITRA\_2K19  
IGNITRA\_2K19

**BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(APPROVED BY AICTE, SECOD BY GOVT. OF TELANGANA, AFFILIATED TO JNTU-H & ACCREDITED BY NAAC)  
HANGALPALLY, MEDAK DISTRICT, TELANGANA  
PIN-501510 | TEL: 08142323133 | WEB: WWW.BIET-AC.IN

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRESENTS**

Drop ur solutions on Social Drawbacks

**\*Any One can Participate**

# SOLUTIONS FOR A "BETTER INDIA"

**Faculty Co-ordinators:**  
Mr. V. Sampath Kumar  
Ms. B. Santhoshi

**Student Coordinators:**  
Venkata Rammanna - 9652410872  
Sudharshan - 7730940864

**Follow us on:**  
ignitrak@gmail.com  
ignitra\_2k19

**BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(Approved by AICTE-Affiliated to JNTU-H | Hangalpally, Medak District, Telangana-501510)

**TECHNICAL Events**

- PAPER PRESENTATION
- PPT PRESENTATION
- PROJECT EXPO
- TECHNICAL QUIZ
- ELECTRIC HUNT

**NON-TECHNICAL Events**

- MEMORIE MASTER
- TREASURE IN DARK
- SELPHOS
- PHOTOGRAPHY
- BOX CRICKET

**IGNITRA 2K19**  
(Under the aegis of JNTU-H)

**29 & 30 MARCH**

**Winning prize taking away:**

**Chief Patron:** DR. O. VENUGOPAL REDDY, CHAIRMAN

**Patron:** Dr. V. BABARU PINI, PRINCIPAL

**Convener:** Dr. JOHN ARUN KUMAR, HOD

**Faculty Co-Ordinator:** Mr. V. Sampath Kumar, Ms. B. Santhoshi

**Student Co-Ordinators:** M. Narani - 9852195186, P. Raj Reddy - 9865965233, P. Anusha Reddy - 9917115085

**Sponsored by:**

**BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(APPROVED BY AICTE, SECOD BY GOVT. OF TELANGANA, AFFILIATED TO JNTU-H & ACCREDITED BY NAAC)  
HANGALPALLY, MEDAK DISTRICT, TELANGANA  
PIN-501510 | TEL: 08142323133 | WEB: WWW.BIET-AC.IN

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRESENTS**

# MEMORIE MASTER

**A Time Based Memorizing Game.**

**\*Be fast to Memorize in Time**  
**\*Don't Even Blink Your Eyes**

**Win exciting Prizes**

**Participation Fee: 30/-**

**Faculty Co-Ordinators:**  
Mr. V. Sampath Kumar  
Ms. B. Santhoshi

**Student Coordinators:**  
Madhuri - 9121802328  
Shravani - 7793993205  
Sai Tejaswini - 8639768556

**Follow us on:**  
ignitrak@gmail.com  
ignitra\_2k19

**BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(APPROVED BY AICTE, SECOD BY GOVT. OF TELANGANA, AFFILIATED TO JNTU-H)  
HANGALPALLY, MEDAK DISTRICT, TELANGANA  
PIN-501510 | TEL: 08142323133 | WEB: WWW.BIET-AC.IN

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRESENTS**

# BOX CRICKET

**WIN EXCITING CASH PRIZES...**

**Participation Fee: Team (7 Mem)-350/- (Per Head-50/-)**

**Student Coordinators:**  
Lokesh - 00642655383  
Rakesh - 00106307984  
Sai Sandeep - 08866889070  
M. Nareesh - 07690089984  
Sriavan Kumar - 99704824517

**Faculty Co-Ordinators:**  
Mr. V. Sampath Kumar  
Ms. B. Santhoshi

**Follow us on:**  
ignitrak@gmail.com  
ignitra\_2k19

**BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(APPROVED BY AICTE, SECOD BY GOVT. OF TELANGANA, AFFILIATED TO JNTU-H & ACCREDITED BY NAAC)  
HANGALPALLY, MEDAK DISTRICT, TELANGANA  
PIN-501510 | TEL: 08142323133 | WEB: WWW.BIET-AC.IN

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING PRESENTS**

# PHOTOGRAPHY

**- Competition**

**Faculty Co-Ordinators:**  
Mr. V. Sampath Kumar  
Ms. B. Santhoshi

**Student Coordinators:**  
Jeevan - 07997115085  
Shanmukh - 06096512044  
Rakesh

**Follow us on:**  
ignitrak@gmail.com  
ignitra\_2k19







IF YOU  
WANT TO  
SHINE  
LIKE  
A SUN,  
FIRST  
BURN  
LIKE  
IT

*We inspire from your legacy*





**BHARAT**  
INSTITUTIONS

# **BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY**

NAAC Accredited; NBA Accredited for  
UG Programmes  
Approved by AICTE New Delhi & Affiliated to JNTUH,  
Hyderabad  
Ibrahimpatnam - 501 510, Hyderabad, Telangana.

