

# GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY



## DEPARTMENT OF ELECTRICAL ENGINEERING



# ELECTRICAL ENGINEERING

**Electrical engineering is a field of engineering that generally deals with the study and application of electricity, electronics, and electromagnetism.**

*“If you want to find the secrets of the universe, think in terms of energy, frequency and vibration”.*

**- Nikola Tesla**



# **JOB OPPORTUNITIES IN ELECTRICAL ENGINEERING**

- 1. Central Government Jobs:** RRB, BSNL, SSC JE, IES, etc
- 2. State Government Jobs:** MahaGenco, Mahatransco, Mahadiscom, etc.
- 3. PSU Jobs:** BHEL, SAIL, ONGC, NTPC, etc.
- 4. Private Sector Jobs:** Software Field and Industries, etc.



# VISION AND MISSION

## VISION

**To produce globally competent technocrats in the field of electrical engineering capable of accepting challenges, serve the nation for the growth of stakeholders.**

## MISSION

**To transform rural and under privileged students into skilled, globally competent and ethical professionals in the field of Electrical Engineering and improving the individuals' quality of life, their family, industries and the society.**

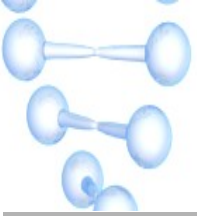
**To implement a curriculum that involves analytical tools, design techniques and efficient management principles to bridge the gap between academia, research and industry.**

**To nurture their sustainability in such a way that they predict the dynamics and appropriately accommodate themselves in changing market scenario through Industry – Institute Interaction for innovation and product development.**



# DEPARTMENT HIGHLIGHTS

- **Established in the year 2009 with an intake capacity of 60 students, due to remarkable growth the intake capacity increased to 120 students from the year 2014.**
- **Well qualified and experienced faculties.**
- **Top Recruiters are Atlas Copco Company, Wipro BPO, Westin Electromech Pvt. Ltd., TCS, SGS Technomech Pvt. Ltd., iNspire, Jalaram Flexo Laminates Pvt. Ltd., Triveni Turbines, etc.**
- **Well equipped 11 laboratories with state of the art, equipments are made with an investment of 37,96,922 lakhs.**
- **Department established its own High voltage Laboratory which is developed & installed by departmental faculties.**
- **Departmental computer centre which has software that includes MATLAB, PSCAD, PSIM, etc.**
- **A student forum “EESA” electrical engineering student association under which various activities such as Project Competition, Roborace, Junkyard, Industrial Visit, Technical Quiz, Mock Test, are organised.**
- **Technical expert lectures and workshops are organized by inviting eminent personality from institutes and industries.**
- **Industrial visit and inplant training is provided.**




# LABORATORIES

Sr. No.	Name of Lab.
1	Basic Electrical Engg.
2	Electrical Measurement & Instrumentation Lab.
3	Network Analysis Lab.
4	Electrical Machine Lab.
5	Electrical Computer Lab.
6	Electrical Engineering Workshop Lab.
7	Power Electronics Lab.
8	Control System Lab.
9	High Voltage Engineering Lab.
10	Switchgear & Protection Lab.



# FACULTIES

Sr. No.	Name of Staff	Qualification	Designation
1	Prof. R.M. Bhombe	M.Tech. (IPS)	H.O.D.
2	Prof. Sneha Jethani	M.Tech. (IPS)	Assistant Professor
3	Prof. Hitesh Murkute	M.Tech. (ET)	Assistant Professor
4	Prof. Pradeep Barde	M.Tech. (ETRX)	Assistant Professor
5	Prof. Kirti Joshi	M.Tech. (ETRX)	Assistant Professor
6	Prof. Diksha Khare	M.Tech. (IPS)	Assistant Professor
7	Prof. Praful Kumbhare	M.Tech. (IPS)	Assistant Professor
8	Prof. Ankush Kosare	M.E. (PED)	Assistant Professor
9	Prof. Aparna Sarkar	M.Tech. (IPS)	Assistant Professor
10	Prof. Akshay Pilewan	M.Tech. (IPS)	Assistant Professor
11	Prof. Harsha Hood	M.Tech. (IPS)	Assistant Professor
12	Prof. Syeda Saba	M.Tech. (PEPS)	Assistant Professor

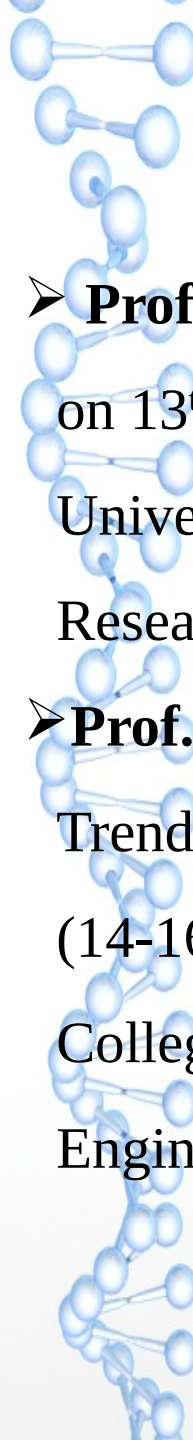




# FACULTIES ACHIVEMENTS

- **Prof. R.M. Bhombe** worked as a LEC Committee member at Abha Gaikwad Patil College of Engineering, Nagpur.
- **Prof. R.M. Bhombe** worked as a member for closer of Bhausahab Mulak College of Engineering, Butibori.
- **Prof. R.M. Bhombe** worked as a Expert for Subjects in Electrical for UGC interview at Suryodaya College of Engineering, Nagpur.
- **Prof. R.M. Bhombe**, attended one week short term training programme ( 17-19<sup>th</sup> April, 2017) on “Power Generation Technologies for Sustainable Future” organized by The Institute of Engineers (India) and Department of Electrical Engineering, RGCOER, Nagpur





➤ **Prof. R.M. Bhombe**, attended one day NBA Orientation Workshop on 13<sup>th</sup> April, 2017 organized by RTMNU, Nagpur, Gondwana University, Gadchiroli and LKM Institute of Management Studies & Research.

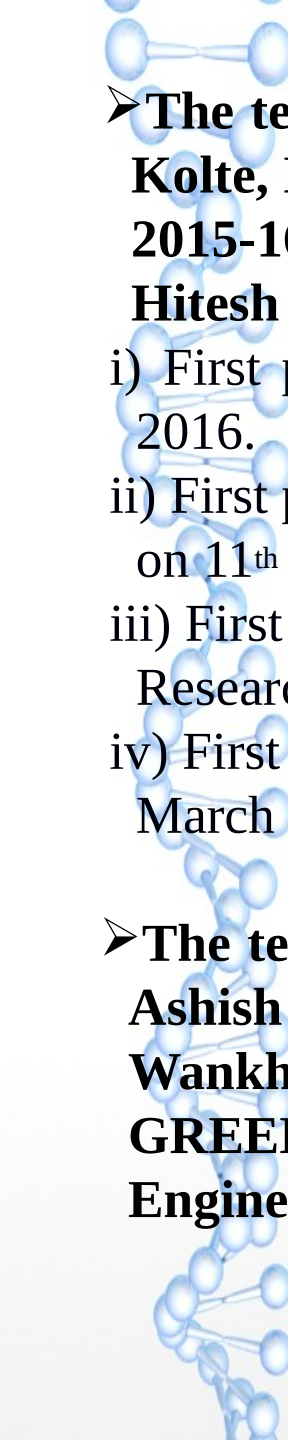
➤ **Prof.R.M.Bhombe**, attended Three days workshop on “Recent Trends in Microcontroller and Power Electronics in Power Sector” (14-16 December 2017) organized by Dr. Babasaheb Ambedkar College of Engineering & Research, Nagpur and The Institute of Engineers, Nagpur.

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- **Mr. Hitesh Murkute**, designed resistive load of rating 2.1 KW at electrical machine lab. in the year 2016.
  - **Prof. S. Jethani** attended one week STTP on “FACTS and its Application” at GHRCE, Nagpur on dated 09 to 13<sup>th</sup> June, 2015.
  - **Ms. S. Jethani** attended one week STTP on C2000 Microcontroller in the year 2013 at GHRCE, Nagpur.
  - **Prof. D. Khare**, attended Three days workshop on “Recent Trends in Microcontroller and Power Electronics in Power Sector” (14-16 December 2017) organized by Dr. Babasaheb Ambedkar College of Engineering & Research, Nagpur and The Institute of Engineers, Nagpur.

# STUDENTS ACHIEVEMENTS




The Best “Yong Innovator” award was won in model competition at Nagpur Institute of Technology, in association with “ The Institution of Engineers (India)”, Nagpur .The team members Mr. Rahul Nile, Mr. Ashutosh Bari, Mr. Rohan Wagh, Mr. Rakesh Nimbalkar, Ms. Deepali Barapatre, Ms. Chetanali Kanfade of 2015-16.



➤ **The team members Mr. Pradnyan Borkar, Mr. Sagar Patil, Mr. Pushpak Kolte, Mr. Kundan Dhage, Mr. Rupesh Bansod and Mr. Ravindra Jane of 2015-16 batch developed Tesla Coil Project under the guidance of Prof. Hitesh Murkute and won the following prizes.**

- i) First prize in “spark 16” of KDK college of Engineering on 26 February 2016.
- ii) First prize in “Pratikriti -16 ” of Yeshwantrao Chavan college of engineering on 11<sup>th</sup> March 2016.
- iii) First prize in “ Luminescence” of Rajiv Gandhi Engineering College and Research, Nagpur on 12<sup>th</sup> March 2016.
- iv) First prize in “Technovision 2016” of ITM College of engineering on 18<sup>th</sup> March 2016.


➤ **The team members Mr. Shreyash Motghare, Mr. Vaibhav Marotkar, Mr. Ashish Madankar, Ms. Ashwini Sahare, Ms. Prajakta Khadse, Ms. Shruti Wankhede of 2015-16 batch have won the First Prize in GREENOVATION All India Level Conference on Advances in Engineering & Technology (AILCAET)**



➤ **Mr. Sagar .L. Kharpuriya** second year student of 2016-17 batch secured **2<sup>nd</sup> Position colour holder** in Nagpur University Yogasan Championship Matches which was organised in **Shri. Madhavrao Wankhede Sharirik Shikshan College, Kamptee** during 13 February 2017 and 14 February 2017.

➤ **Miss. Sadhna Mehar** Third year student of 2016-17 batch secured **2<sup>nd</sup> Position** in Paper presentation in a National Level Event on “Renewable Energy for Powering Generations”, organized by Abha Gaikwad-Patil College of Engineering on 28<sup>th</sup> February, 2017.

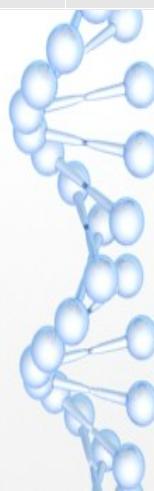


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- **Miss. Shital Belkhade**, Final year student of 2016-17 batch was shortlisted for the Final Round of **Opulent InfoTech**.
  - **Mr. Sagar L. Kharpuriya** from Third year batch 17-18, secured Position in Top 15 in the All India Inter University Yogasan Championship held in Bhubaneswar.
  - **Ms. Damini Nimburkar** from second year batch 16-17, won First Prize in Poster competition organized by NIT College Nagpur.



# PLACEMENTS

<b>Sr. No.</b>	<b>Name Of Student</b>	<b>Name Of The Company</b>	<b>Salary/Package</b>
1	Mr. Liladhar Tapre	SGS Technomech Pvt. Ltd.	1.8LPA
2	Mr. Kapil Shende	iNspire	1 LPA
3	Mr. Shekhar Gundalwar	Jalaram Flexo Laminates Pvt. Ltd.	1.8 LPA
4	Mr. Dnyanesh Nakade	Horizon Telecom	1.8LPA





## DEPARTMENTAL ACTIVITIES

Sr. No.	Date	Nature of Activity	Activity
1	27/07/17	Guest Lecture	Guest Lecture on“Auto CAD Electrical”by Mr.Vaibhav Shukla, Senior Engineer,Astral Informatics Limited ,Nagpur
2	03/08/17	Re-installation program of GNIET student forum “IGNITE” and GNIT students forum “URJAA”	Inauguration
3	03/08/17	Guest Lecture	Guest Lecture by Mr. S.D. Shinde, General Manager (Retd), Koradi Training Centre, presently working as President, Engineers Forum, Nagpur on “Latest Trends in Power Sector”
4	03/08/17	Guest Lecture	Guest Lecture by Mr. Devendra Singh Ruprai, Executive Engineer (Retd), MSETCL, Nagpur on “Substation Equipments”.
5	04/08/17	Students activities	1.Poster Competition 2.Selfie Contest 3.Minute to Win 4.Technical Quiz





<b>Sr. No.</b>	<b>Date</b>	<b>Nature of Activity</b>	<b>Activity</b>
6	26/08/17	Industrial Visit	one day Industrial visit for III-Semester students to “Russian Electricals”, MIDC, Hingna, Nagpur
7	28/08/17	Industrial Visit	Industrial visit to “Khaparkheda Thermal Power Station”, Khaperkheda, Nagpur, for V-Semester (B) students
8	29/08/17	Industrial Visit	Industrial visit to “Khaparkheda Thermal Power Station”, Khaperkheda, Nagpur, for V-Semester (A) students
9	23/09/17	Industrial Visit	one day Industrial visit to “KEC (Kamani Engineering Corporation) International Limited”, Butibori, Nagpur for VII -Semester (Sec A)
10	25/09/17	Industrial Visit	one day Industrial visit to “KEC (Kamani Engineering Corporation) International Limited”, Butibori, Nagpur for VII -Semester (Sec B)

<b>Sr. No.</b>	<b>Date</b>	<b>Nature of Activity</b>	<b>Activity</b>
11	28/08/17	Guest Lecture	Seminar on "LAB VIEW" software for students of V Sem and VII Sem EE
12	05/09/17	Teachers Day celebrations	Felicitation of the Head and all the faculty members of EE Deptt. by the students then various games and activities
13	16/08/17	Dahi Handi Ustav	1) HANDI FOD 2) DECORATIVE HANDI MAKING 3) TRADITIONAL WEAR 4) MATAKI BREAKING(For Staff).
14	02/01/18	Seminar	Solar Application
15	04/01/18	Seminar	AutoCAD Electrical and Revit MEP
16	12/01/18	Seminar	PLC SCADA Automation
17	23/01/18	Industrial Visit (VI-A)	J.P. Electricals and Technical Institute
18	24/01/18	Industrial Visit (VI-B)	J.P. Electricals and Technical Institute

# INDUSTRY INTERFACE /MOU



KRISH INFOTECH, Nagpur installed PLC Trainer Kit to perform practicals and projects on PLC and automation for students and faculties.

# INDUSTRIAL TOUR



Industrial Tour to Delhi, Kullu Manali and Shimla for third and final year students