
LAKSHMI NARAIN COLLEGE
OF TECHNOLOGY
Department of Electrical &
Electronics Engineering
“OORJA”
NEWSLETTER

# ABOUT LNCT

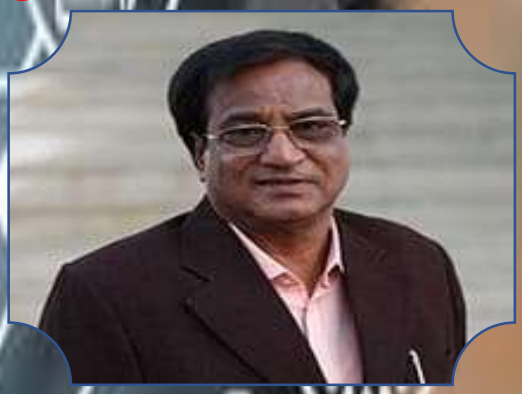
Lakshmi Narain College of Technology (LNCT), Bhopal was established in 1994 under the banner of H. K. Kalchuri Educational Trust. Since then, With the commitment of "Working Towards Being the Best", LNCT Group has achieved many milestones. The institute is successfully meeting the objective of producing skilled manpower of the highest quality who is able to cope up with the challenges of ever evolving industrial needs of the country. The Alumni of LNCT Group are working all across the Globe in Multi National Companies.

Today, LNCT Group is one of the Largest and most preferred Educational Group for Engineering, Management, Pharmacy, Medical with ISO-9001 certification and NBA accreditation for many Engineering courses.. Bright young students from all across the country are coming to fulfil their dreams in this group.

The LNCT Campus at Bhopal is spread over a lush green environment of approx. 50 acres. The campus constitutes of many buildings that houses the academics and research centres. In addition to this, the

# OUR VISIONARY MANAGEMENT

## Shri Jai Narayan Chouksey, Chancellor LNCT University & Chairman-LNCT Group of Colleges

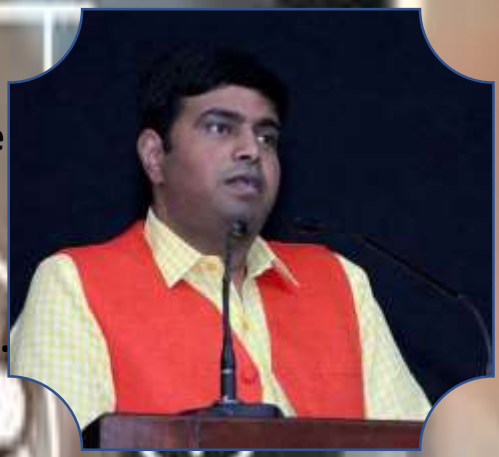


Education is what remains after one has forgotten what one has learned in school". At LNCT LNCT Group of Colleges, the purpose of life is taught.

## Poonam Chouksey -Vice Chairperson

I welcome to you in this Campus of higher learning which is being the prime unit of LNCT Group of colleges. In my considered view your decision to Choose LNCT is right.

## Dr. Anupam Chouksey, Secretary



I believe learning is the only tool for success of individual, irrespective of the age. At LNCT, we are committed for betterment of society through development of students at every stage.

# ABOUT DEPARTMENT

Department of Electrical and Electronics Engineering was established in 1994 with an intake of 60 at undergraduate level. Since its inception department has undergone many developments. The department has qualified, experienced and adequate faculty in cadre ratio. The department has modern laboratories like Network Analysis, Project, Electrical Machine, Power System, Control System, Electrical and Electronics Instrumentation, Electrical Simulation etc.

The department has a library and computer centre. The department encourages its faculty to present research papers in national, referred international journals, conferences and symposium. Faculty members are motivated to attend workshops and Faculty Development Programs both in house and off campus. The department has good records of placement in prominent companies.

Research assistance for paper presentation and travel grants for India

## VISION OF THE DEPARTMENT

"To impart basic knowledge of Electrical & Electronics Engineering and students into world class professionals to achieve excellence in engineering education and research"

## MISSION OF THE DEPARTMENT

- To prepare students with a deep understanding of fundamentals of electrical and electronics engineering.
- To prepare engineering professionals with positive attitude, values and vision.
- To collaborate with industry, research organizations and academia to encourage innovations and patents.
- To impart consultancy services in the field of electrical and electronics engineering.

# NPTEL RESULTS

Following faculty members of Electrical & Electronics Department completed NPTEL Course in session Jan to April 2019 Successfully. Results were declared in May 2019.

| S.NO. | Name of Faculty | Course | Duration | Score | Status |
|---|---|---|---|---|---|
| 1 | Amol Barve | Power System | 12 Weeks | 82% | Completed Successfully (Elite+silver) |
| 2 | Prof. Sudeshna Ghosh | Control System | 12 Weeks | 62% | Completed Successfully (Elite) |
| 3 | Prof. Manju Khare | Control System | 12 Weeks | 60% | Completed Successfully (Elite) |
| 4 | Prof. Vivek Rai | Control System | 12 Weeks | 55% | Completed Successfully |
| 5 | Prof. Sujeet Soni | Control System | 12 Weeks | 42% | Completed Successfully |
| 6 | Dr. A.A.Ansari | Control System | 12 Weeks | 41% | Completed Successfully |

# NPTEL RESULTS

Following Students of Electrical & Electronics Department LNCT completed NPTEL Course in session Jan to April 2019 Successfully. Result declared in May 2019

| S. No. | Name of Student | Course | Duration | Score | Status |
|---|---|---|---|---|---|
| 1. | Shashwat Debnath | Matlab programing for numerical computation | 8 weeks | 82 | Completed (Elite+Silver) |
| 2. | Shantanu kumar | Programing in java | 12 weeks | 80 | Completed (Elite+Silver) |
| 3. | Satya Narayan Pandit | Power System Engineering | 12 weeks | 80 | Completed (Elite+Sliver) |
| 4. | Shriya Sharma | Power System Engineering | 12 weeks | 75 | Completed (Elite+Sliver) |
| 5. | Subhendu Kumar | Programing in java | 12 weeks | 66 | Completed (Elite) |
| 6. | Shubham Choudari | Programing in java | 12 weeks | 65 | Completed (Elite) |
| 7. | Ratnesh Ranjan | Power system engineering | 12 weeks | 58 | Completed |
| 8. | Aakash Pandey | Programing in Java | 12 weeks | 54 | Completed |
| 9. | Aadarsh Kr. Singh | Programing in C | 12 weeks | 52 | Completed |
| 10. | Satyam Kumar | Programing in C | 12 Weeks | 51 | Completed |
| 11. | Prakash Kr. Jha | Control Engineering | 12 weeks | 40 | Completed |
| 12. | Ratnesh Ranjan | Control Engineering | 12 weeks | 47 | Completed |
| 13. | Subhendu Kumar | IOT | 12 weeks | 46 | Completed |
| 14. | Prashant Kr. Thakur | Control Engineering | 12 weeks | 40 | Completed |

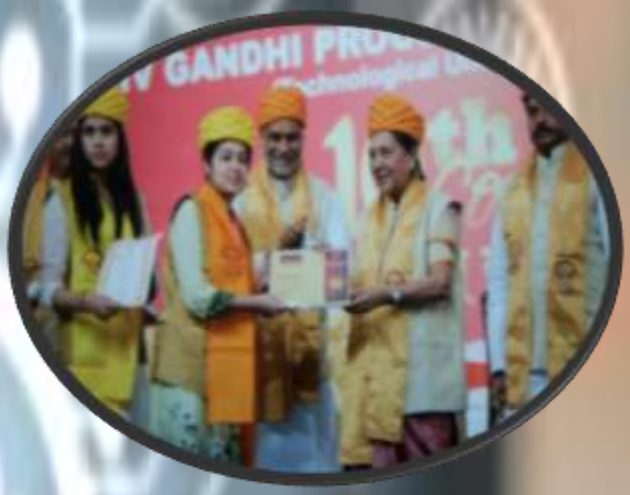
# Workshop/STTP attended by Faculty Members

Following faculty members of Electrical & Electronics Department LNCT attended one day workshop on " Virtual Labs " an initiative of MHRD under National Mission on Education Through ICT under TEQIP III on 22 May 2019 at RGPV, Bhopal for Faculty of Electrical & Electronics Engineering Departments of RGPV affiliated unaided private institutions.

| S. No. | Name of Faculty Member |
|---|---|
| 1 | Amol Barve |
| 2 | Dr. Sachin Tiwari |
| 3 | Dr. Hemant Mahala |
| 4 | Prakhar Bhadoriya |

# UNIVERSITY MEDALS


**JEBA MANSOORI received University Silver Medal for securing outstanding marks in 10th Convocation held at RGPV Bhopal.**



**MONA KARIRA received University Gold Medal for securing outstanding marks in 10th Convocation held at RGPV Bhopal.**

**Anushree Nighoskar received University Silver Medal for securing outstanding marks in 10th Convocation held at RGPV Bhopal.**

**Nikhil Mishra received University Silver Medal for securing outstanding marks in 10th Convocation held at RGPV Bhopal.**

# Student Project Appreciation Awards

| | | | |
|---|---|---|---|
| ***GOLD*** | Speed control of DC motor using android application | • Prof. Amol Barve<br>• Prof. Nand Kishore | • Aditi Vaishnav<br>• Aradhana Tiwari<br>• Ishita Pardeshi |
| ***SILVER*** | Arduino based Automatic street lighting System with over speed detection | • Dr. Manish Khemariya<br>• Dr. Anand Singh | • Aditya kumar Shukla<br>• Sana Khan<br>• Shriya Mathew<br>• Shreya Mishra |
| ***BRONZE*** | Power Factor correction | • Prof. Ranvijay Singh Sengar | • Murli Manohar Jha<br>• Piyush Kumar Singh<br>• Rahul Anand<br>• Palash Wani<br>• Rahul Barambhe |

# STUDENT ACHIEVEMENTS

Asir Ali Khan of VIII sem. Won Gold medal in 1500 meters and 4X400 meters relay race, in RGPV state level tournament and selected for National also.

Kundan Kumar Thakur participated in "Entrepreneurship awareness Camp"(EDP) under DST-NIMAT Project sponsored by NSTEDB in March 2019.

Anivesh Bajaj participated in BAJA SAE INDIA in March 2019 at IIT Ropar and at Chitkara University, Punjab in July 2018

Shashwat Debnath, Satyanarayan, Shriya Sharma, Ritwika Singh , Purushottam Rath and Ravishankar Kumar participatrd in Hackthon 2019 and qualified for second round

Anjali Kumari secured third position in RGPV state level volleyball tournament 2018 held at Gyan Sagar College of Engineering, Sagar.

Piyush Ranjan student of final year participated in kabaddi event in Indo-Nepal championship international game- 2018 at Pokhra Nepal.

Priyesh Mandlekar of 3rd sem.Completed workshop on Ethical Hacking from IIT Delhi.

Swati Chouksey was a member of winning team of RGPV State Drop Roball Championship 2019

# Following Students have cleared Gate Examination 2019

GATE 2019 QUALIFIERS

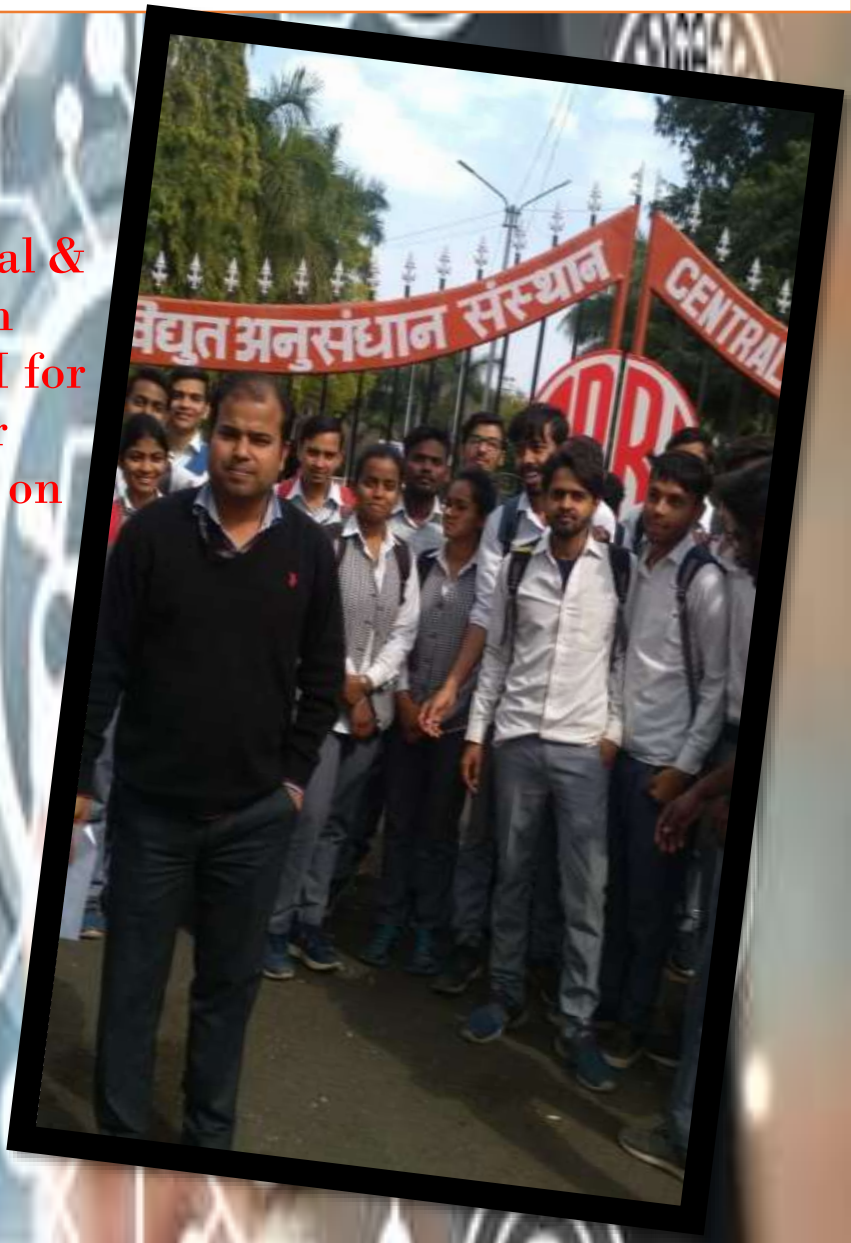
| S.No. | Name Of Students | Marks Out Of 100 | Gate Score |
|---|---|---|---|
| 1. | Vikas Kumar Jaiswal | 70.67 | 679 |
| 2. | Ashwani Kumar | 60.67 | 573 |
| 3. | Milind Singh | 58 | 545 |
| 4. | Anju Prabha | 54.67 | 510 |
| 5. | Ashish Kumar Pandey | 54 | 502 |
| 6. | Aditya Naugraiya | 53.67 | 499 |
| 7. | Rajat Shrivastav | 50.33 | 464 |
| 8. | Shrikant Raghuwanshi | 48.67 | 446 |
| 9. | Sarfaraj Iqbal | 41.67 | 372 |
| 10. | Sushanshu Ranjan | 40 | 354 |
| 11. | Abhishek Sahu | 36.67 | 319 |

# Chancellor Awards 2019

| S.No. | Student Name | Enrollment Number | Year | Academic Year | Photograph |
|---|---|---|---|---|---|
| 1 | Nand Ji Jayaswal | 0103EX141053 | 4th | 2018-19 |  |
| 2 | Prabhakar Chaudhary | 0103EX141059 | Fourth Year | 2018-19 |  |
| 3 | Tina Rajput | 0103EX141108 | Fourth Year | 2018-19 |  |
| 4 | Preeti | 0103EX151082 | Fourth Year | 2019-20 |  |
| 5 | Sana Khan | 0103EX151095 | Fourth Year | 2019-20 |  |
| 6 | Naveenta Kumari | 0103EX153D01 | Fourth Year | 2018-19 |  |
| 7 | Aayushi Singhai | 0103EX161002 | Third Year | 2019-20 |  |
| 8 | Afreen Khan | 0103EX161012 | Third Year | 2019-20 |  |
| 9 | Anjali Dhakad | 0103EX161019 | Third Year | 2019-20 |  |
| 10 | Khushboo Gupta | 0103EX161049 | Third Year | 2019-20 |  |
| 11 | Ayush Mishra | 0103EX171023 | Second Year | 2019-20 |  |

# INDUSTRIAL VISITS 2019

- Department of Electrical & Electronics organized an Industrial Visit to CPRI for students of VI Semester Electrical & Electronics on 26.02.2019



# INDUSTRIAL VISITS 2019

Department of Electrical & Electronics organized an Industrial Visit to CPRI for students of VI Semester Electrical & Electronics B section students on 06.03.2019 where they were exposed to various testing laboratories.


Industrial Visit of V Sem Electrical & Electronics Students to CRISP Bhopal on 15/04/2019, where they were shown the advanced labs and technologies in which research is going on.

# EXPERT LECTURES

**Department organized Expert lecture on PLC / SCADA in association with ITBP training center M.P. Nagar Bhopal on 20/02/2019**

❖**In house training program was conducted By department in June 2019 and interesting and stimulating day which intended more in redoubling the efficiency of institute and an employee as well**

# A fresh New Term Tech Industry Blockchain Technology

A Blockchain is generally a growing list of records called blocks that linked using cryptography. Each block contains a cryptographic hash of previous block,a timestamp, and transaction data(generally represented as a tree structure).As noted economist Roubini has As noted economist Nouriel Roubini has written:

"As for the underlying blockchain technology, there are still massive obstacles standing in its way, even if it has more potential than cryptocurrencies. Chief among them is that it lacks the kind of basic common and universal protocols
that made the Internet universally accessible (TCP-IP, HTML, and so forth). No wonder blockchain is ranked close to the peak of the hype cycle of technologies with inflated expectations.

Blockchain technology could be quite complementary in a possibility space for the future world that includes both centralized and decentralized models. Like any new technology, the blockchain is an idea that initially disrupts, and over time it could promote the development of a larger ecosystem that includes both the old way and the new innovation.

Some historical examples are that the advent of the radio in fact led to increased record sales, and e-readers such as the Kindle have increased book sales. Now, we obtain news from the New York Times, blogs, Twitter, and personalized drone feeds alike. We consume media from both large entertainment companies and YouTube.

Thus, over time, blockchain technology could exist in a larger ecosystem with both centralized and decentralized models

-GAURAV YADAV

# SOLAR SATELLITE

Space-based solar power (SBSP) is the concept of collecting solar power in outer space and distributing it to Earth.
Potential advantages of collecting solar energy in space include a higher collection rate and a longer collection period due to the lack of a diffusing atmosphere, and the possibility of placing a solar collector in an orbiting location where there is no night. A considerable fraction of incoming solar energy (55–60%) is lost on its way through the Earth's atmosphere by the effects of reflection and absorption.
Space-based solar power systems convert sunlight to microwaves outside the atmosphere, avoiding these losses and the downtime due to the Earth's rotation, but at great cost due to the expense of launching material into orbit.
SBSP is considered a form of sustainable or green energy, renewable energy, and is occasionally considered among climate engineering proposals. It is attractive to those seeking large-scale solutions to anthropogenic climate change or fossil fuel depletion (such as peak oil).

-PRIYESH MANDLEKAR

# Swedish Stubble Technology

Stubble(viz. the cut stalkls of cereal plants left after harvesting) posed a great threat last month and still continuing.Generally, farmers used to fire the stubble which pollutes the environment in a greater extent.
Prominently, it is polluting regions like- Delhi-NCR,Punjab,Haryana etc...but technology can make everything simple and possible and in this case too it had proved its utility.
A swedidh technology can be used to convert the stubble into the biocoal viz. known as "Torrefaction".
In this process, the stubble,straw,sawmill residue is heated upto the temperature of 250-300°C, this changes the elements of boiomass(stubble) into 'cola like- pellts' then these pellets can be used for combustion along with coal for industrial appliances like- steel& cement production.
So this technology will help in converting 150-200kg of stubble to biocoal every hour and reducing CO2 emission which will inturn reduce air pollution and will benefit the agrarian economy.

-RAJSHEKHAR DUBEY

## UNCONQUERED KNOWLEDGE

The conquered is still unconquered
as the procured is not cared.
Knowledge isn't giving wisdom
and the men preceed.
The soul had gone vagrant
to condemn the peace.

The achievements gone sublime as
the knowledge is not what it mean.
But still the answers to the questions
are not imparted ...
Sparkling features are not departed.
Which still nurtures the hunger of
knowledge.

There's still left a personal quest and
personal oath to become the best. still
left an impression in heart to burn like
the sun.

The sparkling features still tricks and
men still hits.

love for the knowledge is still alive so
lets revive ....

-MANTASHA ALAM

## Eye Sight

As I sit here in the evening light,
Watching the day go slowly by,
With sweet silent thoughts in fluttering
flight,
The tears from my heart rise to my eyes.

Myself I can see myself in my fantasy
world,
In a land chasing far far away,
Chasing something, something in my very
soul,
And the tears they rise, they flow and
they stay.

And the evening with orient light, Shining
me on, as i sit by the sea, With dancing
rays,
Oh! What a beautiful sight,
The tears, oh! they continue to rise in me.

Maybe this is how it is indeed to be? Maybe
one day I'll follow my dreams? Maybe?
Maybe?
Oh!! Where is the key? And the tears they
rise and flow in a stream

-MANSI SHUKLA.

# THE POWER OF RESPECT

What exactly is respect? It is the sense of worth of personal value that you attach to someone. Respect is an overall evaluation you give someone based on many factors. What that person is doing with their life, how they treat you and other. Whether they are honest or not and if they seem to constantly do good things, large or small for other people. In short respect is a positive view how you form of how someone is living your life. There are three areas of respect are very important. Thin about this, if you do not respect for you. All three of these areas are very important.

Receiving respect from others is important because it helps us to feel safe and to express ourselves. Respects in your relations build feeling of trusts, safety and well being.

Respect plays a lot in our day to day life . when we go to our college there is a respect to you. If you are not respectful to others so they will treat you want to be treat you the way you want to be treat. My definition of respect is being nice, generous and helpful to others.

What is the purpose of respect? Which is considered as a positive feeling or action shown towards someone or something considered important or held in held in high esteem or regards. It conveys a sense of admiration for a good or valuable qualities and it is also the process of honoring someone by exhibiting care, concerns or consideration for their needs or feelings, which creates a fair environment, stress and knowledge sharing with respect.

-PALAK KESHRI

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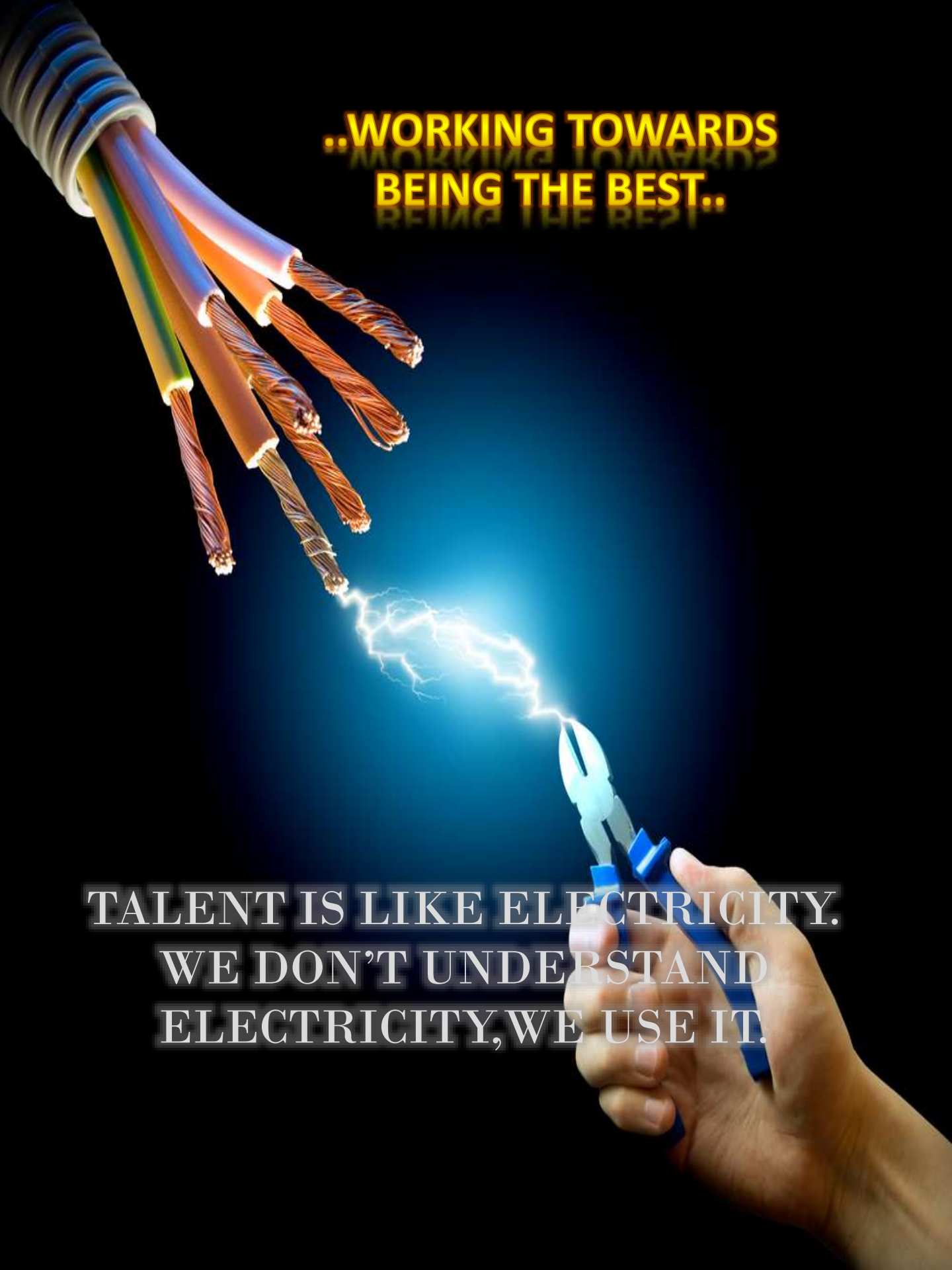
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