

LAKSHMI NARAIN COLLEGE OF TECHNOLOGY



“OORJA” NEWSLETTER

Department of
Electrical
&
Electronics Engineering (EX)

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-9001-2015 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 academic building has tutorial rooms, lecture halls, computer and electronics labs and offices of the administrations and faculty. The campus is fully equipped with facilities like Wi-Fi, central library (digital library, Internet lab), digital classrooms, hostel, mess, central workshop, auditorium and sports Ground etc.

MESSAGE FROM CHAIRMAN

Shri. Jai Narayan Chouksey
Chancellor, LNCT University
& Chairman-LNCT Group



It has indeed been an eventful year, for LNCT Group as it celebrates the Silver Jubilee year, replete with a plethora of activities and events that celebrate the spirit of learning, growth and creativity. All these events contribute to the holistic development of the students, who are able to hone their talents and channel their energy into productive and creative work. The unique blend of academics, co-curricular activities and value education imparted at this institution continue to set it apart from the crowd. It remains my humble wish that LNCT Group continues to shine as a lighthouse of goodness and truthfulness, that in addition to academics, the young ones who pass through its corridors may become caring, productive and responsible citizens and future leaders of the country.

Department of Electrical Engineering was established in 1994 and got converted into Electrical and Electronics Engineering in 2001 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 and abroad are provided by LNCT Group and government agencies like MPCST, AICTE, DST etc.



VISION OF THE DEPARTMENT

“To impart knowledge of electrical & electronics engineering and mould 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.**

Following Faculty Members of Electrical and Electronics Department LNCT completed NPTEL Course in session July to Nov- 2019 Successfully . Result declared in Nov Dec 2019.

S. NO.	Name of Faculty	Course	Duration	Score	Status
1	Prof. Amol Barve	Basic Electrical Circuits	12 Weeks	96%	Completed Successfully (Elite + Gold)
2	Prof. Amol Barve	Fundamental of Electrical Engineering	12 Weeks	90%	Completed Successfully (Elite + Gold)
3	Prof. Naveen Asati	Fundamental of Electrical Engineering	12 Weeks	84%	Completed Successfully (Elite + Silver)
4	Prof. Sudeshna Ghosh	Fundamental of Electrical Engineering	12 Weeks	81%	Completed Successfully (Elite + Silver)
5	Mr. Celestine Ekka	Fundamental of Electrical Engineering	12 Weeks	71%	Completed Successfully (Elite)
6	Prof. Manju Khare	Fundamental of Electrical Engineering	12 Weeks	70%	Completed Successfully (Elite)
7	Prof. Aashutosh Khasde	Fundamental of Electrical Engineering	12 Weeks	56%	Completed Successfully



Following students of Electrical and Electronics Department LNCT completed NPTEL course in Nov 2019 successfully. Result declared in Dec 2019.

S. No.	Name of Students	Course	Duration	Status
1	Shriya Sharma	Basic Electric Circuits	12 Weeks	Completed Successfully (Elite+Silver)
2	Shyam Ku. Singh	Basic Electric Circuits	12 Weeks	Completed Successfully (Elite)
3	Prashant Ku. Thakur	Soft Skills	12 Weeks	Completed Successfully (Elite)
4	Mohit Sahu	Programming in JAVA	12 Weeks	Completed Successfully (Elite)
5	Prashant Ku. Thakur	Problem solving through Programming in C	12 Weeks	Completed Successfully

NPTEL



Prof. Amol Barve and Dr. Anand Singh attended workshop on Design , Testing and Selection of Cables Sponsored by TEQIP III and Jointly organized by Department of Electrical Engineering and Energy Center MANIT, Bhopal in collaboration with LAPP India on 15/10/2019.



Dr. Anand Singh of Electrical & Electronics Deptt delivered an Expert Lecture in STTP on “ Soft Computing Techniques in Electrical Engineering” on 28 Sept 2019 organized by RGPV under TEQIP III at Corporate Institute of Science and Technology, Bhopal



- ❖Dr. Manish Khemariya, Professor Electrical & Electronics Department has participated in Workshop of Artificial Intelligence and Deep learning held at Lakshmi Narain College of Technology, Bhopal in Feb 2019.
- ❖Dr. Manish Khemariya participated as delegate in the 4th World Summit on Accreditation organized by National Board of Accreditation at Ashoka Hotel New Delhi.
- ❖Dr. Manish Khemariya Attended workshop on Counter measures for cyber Security and Forensics.

The Faculty Cricket Team of the department won the Runners-up award in the annual sports event, “LNCT FACULTY OLYMPIAD 2019” organized by the LNCT Group of collage, Bhopal. The team reached the final winning all its league matches. A total of 18 teams from various collages of LNCT Group participated in the tournament.



Prof. Amol Barve won the runners-up trophy in Table-Tennis(Men’s singles) showing tremendous performance in the league matches against tough opponents.



❖ Anjali Kumari student of Electrical & Electronics branch participated in RGPV state level volleyball tournament 2018 held at Gyan Sagar College of Engineering, Sagar and secured third position.

❖ Swati Chouksey Student of Electrical & Electronics branch was a member of winning team of RGPV STATE DROP ROBALL CHAMPIONSHIP 2019

❖ Swati Chouksey student of Electrical & Electronics won the IX junior & 1st Youth National Drop Roball Championship 2018-19 held at Surajmal Technical College, Kiccha, Udham Singh Nagar (Uttarakhand)



❖ *Aayush Mishra* - student of 6th sem of Electrical & Electronics branch has secured 2nd position in poster making competition on "ENERGY CONSERVATION" organized by GREEN ENERGY CLUB of RGPV on the occasion of National Energy Conservation Week Celebration.



❖ *Piyush Ranjan* - student of Electrical & Electronics participated in Kabaddi event in Indo-Nepal championship international game-2018 at Pokhara Nepal.

Ankul of Electrical & Electronics Department had won in Kabaddi Competition held at RGPV .



Ankit Shrivastava student of Electrical & Electronics branch represented RGPV, Bhopal as a player of Basketball team in West Zone Inter University Tournament held at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra from 15th October to 19th October. He has finished as a winner in RGPV State Level Basketball Tournament held on 9th October at MITS, Gwalior.



Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal organized 3 days STTP on “ Arduino Programming with hardware interfacing “ from 30 Oct 2019 to 01 Nov 2019 at Electrical & Electronics Department LNCT group Bhopal.



- ❖ Dr. Sachin Tiwari Professor Electrical & Electronics Dept. LNCT Bhopal attended Capacity building Program conducted for RGPV under TEQIP III held at Indian Institute of Management Indore during 11-13 November 2019.
- ❖ Prof. Nand Kishore participated in NSS University Level resource group Training Organized Jointly by UNICEF, Aawaj and NSS under “Youth as Champions for Child Protection” programme in Madhya Pradesh on 26-27 November 2019.
- ❖ Prof. Nand Kishore attended two week Faculty Development Programme on Recent Development in Next Generation networks (NGN) sponsored by AICTE, New Delhi organizes by Computer Science and Engineering LNCT Bhopal between 18 – 29 Nov 2019.

❖ Department of Electrical & Electronics organized Industrial Visit to Central Power Research Institute (CPRI) for V Sem Electrical & Electronics A Section Students on 23 sept 2019 .



❖ Department of Electrical & Electronics organized Industrial Visit to Central Power Research Institute (CPRI) for V Sem Electrical & Electronics B Section Students on 24 sept 2019.



INDUSTRIAL VISITS

❖ Department of Electrical & Electronics organized an Industrial visit to CPRI for V Sem Electrical & Electronics (EX) and Electrical Engineering (EE) Students on 25/09/2019.



Hybrid Electric Vehicle

by Yash Jain

In today's generation, it is need of everyone to have a vehicle which is having a great efficiency at low cost. It can be made possible with the electric vehicle. Everyday we are looking at the raising price of fuels. The fuels are getting exhausted and getting higher in their prices. But electricity is something which can be generated by us but fuels can't. The big companies like Tata, Maruti Suzuki, Hyundai etc are making a big market in electric vehicle. Actually An electric vehicle, also called an EV, uses one or more electric motors for propulsion. Electric vehicle may be powered through a collector system by electricity from off-vehicle sources, or may be self-contained with a battery, solar panel or fuel cell electric generator to convert fuel to electricity. EVs include, but are not limited to, road and rail vehicles, surface and underwater vessel, electric aircrafts, and electric spacecraft. But it has been found that the EVs having advantages along with a big disadvantage in form of power losses While applying break. Recently Tata launches it's EV Altroz which can run 300km at a single charge but if you are on the long way then it fails to provide you good service. Everywhere we are not getting the charge stations. EVs are good for shortest distances. In order to over come these problems we must move towards the hybrid version of electric vehicle. You can charge your car while driving it on petrol. Save your fuel while driving at electricity. A hybrid electric vehicle (HEV) is a type of hybrid vehicle that combines a conventional internal combustion engine (ICE) system with an electric propulsion system.

A NEW CLASSMATE

by Mansi Shukla

Here this stranger stands right in front of me
Is she an imposter imposed to hurt me next
Or a friend to be
Questions pounded in my head, but I was willing to take the chance

The perception you see isn't who she should be perceived
She felt the anger, brought out the pain
Started sealing my broken heart
That was on its way to a grave
A chance was taken and no regrets were made

Beautiful on the inside as well as the out
If she ever sought a soul, I'm here to help
Here hard times have beat her, But still she stands tall
She is understanding of life, Its like she's been through it all
No judgments has ever been past for she's not one to judge

We shared our stories, it seems we share something in common
Cried and laughed
I looked back upon a chance I took way back
She snuck in and stole my trust
But she's my Great Friend who I've grown to love.

POEM

"Entrepreneurship has more to do with attitude, perseverance and zeal. An entrepreneur can be a good innovator but an innovation manager is not necessarily a good entrepreneur".

Indeed, an entrepreneur is someone who is willing and able to transform an invention into an innovation. Turning invention into innovation realize on how an entrepreneur positions themselves, gets funding and manages their venture to become successful.

Innovation is about the process an organization needed to generate idea's in any content.

What about the influence of digital channels ?

"It is difficult to think of a business idea without any digital presence nowadays. However, a digital strategy should always be based on solving a real job for the customer, not just used for its own sake".

You can built a perfect entrepreneurial business without a clue about a digital though . Then again , a lot of digital ideas come to market through strong entrepreneurs and not because they are digital.

EDITORIAL BOARD

❖ Advisory committee

- Dr. Manish Khemariya
- Dr. K.N Shukla
- Prof. Amol Barve

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WORKING TOWARDS BEING THE BEST...



Always spark good knowledge and thoughts in your brain.