

CURRENTS 2.0

The Biannual Newsletter of Electrical Engineering Department NIT Kurukshetra Message from HOD

Professor's Interview

Research Activities

MESSAGE FROM HOD



Greetings

Your true success in life starts only when you make a commitment to become excellent at what you do. All the odds and negativities are condemend in a spirited way by our mind if the zeal surpasses our desires to fall back. Progressive mind proccesses our daily achievments, puts us back on track if we dwindle or slip, constantly urging & reminding us of our commitment, leading us to success through glorious path.

Warm Regards. Prof. Ratna Dahiya HOD Electrical Engineering



In order to stimulate research activities along with improvement in facilities for students following initiatives have been taken up by the department.

RESEARCH LAB – Research lab has been shifted to the ground floor, so that the students can access it for 24*7 hours. It is also equipped with latest instruments to facilitate the research work.



INSTALLMENT OF AIR CONDITIONERS – It brings great relief to the students as air conditioners have been installed in lecture rooms to make lectures more engaging and learning friendly.



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Dr. Akhilesh Swarup Professor Department of Electrical Engineering NIT Kurukshetra

Q. Since you are the most experienced Professor of our department what one advice would you give your students which will help them in the long run?

A. The road to success has many ups and downs, but that only helps the students to deal with the upcoming pressures and difficulties. Shortcut never paves a brilliant path over hardwork. Read lots of good books, analyse them, listen to the lectures carefully rather than gulping one night before.

Q. You have been with this institution for a very long time so what kept you going throughout this long journey?

A. My goals are clear and sound. Opportunities are not something that stop one from working and can be lost within the blink of an eye if not analyzed properly. I don't consider any reward or promotion as a measure of my love for this profession. Learning is source of motivation and i cherish each of my collegues as an inspiration that urges me to follow this direction.

Q. How is the research culture of PG and UG students in our department? How can we promote it more amongst the UG?

A. It's a part of teaching and learning. I feel that research is not a culture but it has become a compulsion in todays time. A person having zeal and passion for research takes it out of the paper, where it can't be described, just understood & learned. Promotion means motivating them for this and giving them fine examples of success, examples of others and persuading professors to walk this path. And normally, if someone is interested, I would be delighted to help.

Q. Now a days most of us expect only a good job from the institute, and people don't prefer to go into research field, which is very important for the development of our country, so what would you suggest are the benefits of research field over others?

A. It comes from within. A person's knowledge, zeal towards the subject draws him/her closer to research. This is just a myth that it offers little money and demands hard work. While it is true that no research is complete without hard work but it wouldn't be wrong to say that research does provide opportunities to earn good amout of money. Student should study hard, and even read many books apart from the curriculum.

Q. You have seen the department and institution evolve over time, so what major changes do you observe in our institution now, as compared to old times?

A. I have seen this institute evolve form REC to NIT. Overall structure has changed, governance has improved and since 2002 more funding has started to flood in. A lot of infrastructural upgradation has taken place. The strength of UG batch has increased from 300 to 800.

Also we have now 90 % of Ph. D faculty, compared to hardly few at that time.

Q. What is the scope of Electrical Engineering in current time? Is it going to increase further in future?

A. Scope is universal in this department. One can set a foot in most of the desired directions ranging

from software jobs to biomedical management atc. Pageburan Pajan 23rd Governor of PRI is an

from software jobs to biomedical management etc. Raghuram Rajan 23rd Governor of RBI is an

Electrical Enginner graduate from IIT DELHI.

Q. How has your experience been working as a professor at NIT KURUKSHETRA. What major ups and down have you seen in this whole journey?

A. The years in this institute holds an exquisite impression on me. From the superior governance & conductance issues to the lush green campus of the college, with increasing placements in reputated firms to the changing of NIRF ranking of the college i have experienced it all.

TECHNICAL ACTIVITIES

The department of Elecrtical Engineering contributes to two major technical fests organised in the institute named as ALTIUS and TECHSPARDHA through the best efforts of its technical society Electroreck and its incessant motivation to students through elite channels such as professors, guest lectures, and seminars.

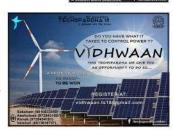
Some of the notable events organised during the fests include Vidhwaan, Vertigo, and Eureka among others which are designed to challenge the students to think out of the box and create solutions along with promoting a culture teaches team work, produces leaders and better future citizens.

EUREKA

It was one of the most exciting Electrical event of Techspardha'18 introduced for the first time, which tested the theoretical and practical knowledge of circuits. This event helped in enhancing and applying the students's knowledge to design a circuit with all practical considerations.

VIDHWAAN

Electricity is one of the most important blessings that science has given to mankind. To become a true engineer one should have a practical knowledge about electricity generation, transmission and distribution. Vidhwaan challenged the students to design a small model of a power grid that consists of generating stations, substations with protective devices.



SOME OTHER EVENTS ARE

<u>VERTIGO</u>



ADVANZA



DRISHTI



DIRECTOR'S TROPHY

Director's Trophy being the pleasent heck solely owened by Electroreck is the premier platform for budding future of our country from various schools to a place where they get the imprints of technical and cultural tincture on their moldable brains

डायरेक्टर ट्रॉफी में गुरुकुल कुरुक्षेत्र की टीम अव्वल

भास्कर न्यूज | कुरुक्षेत्र

राष्ट्रीय प्रौद्योगिकी संस्थान (एनआईटी) कुरुक्षेत्र में शनिवार को विद्युत अभियांत्रिकी विभाग की ओर से डायरेक्टर ट्रॉफीज् प्रतियोगिता संस्थान के जुबली हॉल में हुई। टेक्स्पर्धा प्रो. इंचार्ज डॉ. दीक्षित गर्ग ने बताया कि प्रतियोगिता संस्थान के आस-पास के क्षेत्र के विद्यालयों के विद्यार्थियों को अच्छा प्रतिस्पर्धात्मक वातावरण देने के लिए आयोजित की जाती है। मुख्यअतिथि संस्थान के निदेशक डॉ. सतीश कुमार ने कहा कि विद्यार्थियों को अपने ज्ञान का प्रयोग अपनी दैनिक जीवन के समस्याओं के हल के साथ-साथ राष्ट्रहित में करना चाहिए। संस्थान के डीन (छात्र-कल्याण) प्रो. सत हंस ने विद्यार्थियों के साथ अपने अनुभव सांझा किए। इस दौरान रंगोली बनाना, पेटिंग व भाषण सिहत कई अन्य प्रतियोगिताएं कराई गई। विद्यालय गॉट टैलेंट में किनष्ठ वर्ग में सृष्टि और अदिति ने पहला और दूसरा स्थान पाया। वरिष्ठ वर्ग में अविन और रोहित पहले और दूसरे स्थान पर रहे। ओवरआल बेहतरीन प्रदर्शन करने पर डायरेक्टर ट्रॉफी का विजेता गुरुकल करक्षेत्र रहा।



कुरुक्षेत्र | राष्ट्रीय प्रौद्योगिकी संस्थान निट में लगी प्रव्हंशनी को देखते निट निदेशक डॉ. सतीश कुमार व अन्य।



Class 6 student explaining about saving of electricity in street light which was really innovative and were able to win the first prize.



Director's Trophy Winner: Gurukul Kurukshetra team

EXHIBITION

On the occasion of TECHSPARDHA'18, an exhibition of hover robotics

by Mr. Munish Jindal and team of Hover Robotix was held successfully. They created awareness about the technology of hover board among the students. Many students and faculties got a chance to drive it. This exhibition became the center of attraction during the fest. The whole exhibition created a vocational environment.







Exhibition of Indian Space Research
Organisation (ISRO) on Techspardha'18

Exhibition shows possibilities of life on Mars by class 9th students won 2nd prize on Directors's Trophy 2018

Research Papers

The following B.Tech students glorified the Electrical department by getting their papers published in IEEE and SPRINGER during January to June 2018 Mukesh Prasad Agrawal, Dinesh Rana, Prashant Pathak and Ashtosh Joshi.

Papers Published

[1]. Prashant Kumar Pathak, Atma Ram Gupta, "Battery Energy Storage System" CICT 2018, 4th IEEE International Conference on Computational Intelligence and Communication Technology 09-10th Feb, 2018.

[2]. Dinesh Rana, Gourav Kumar, Atma Ram Gupta, "Increasing the Output Power and Efficiency of Solar Panel by Using Concentrator Photovoltaic (CPV) and Low Cost Solar Tracker" CICT 2018, 4th IEEE International Conference on Computational Intelligence and Communication Technology, 09-10th Feb, 2018.

[3]. Mukesh Prasad Agarwal, Atma Ram Gupta, "Smart Stick for the Blind and Visually Impaired People" 2nd IEEE International Conference on Inventive Communication and Computational Technologies (ICICCT 2018), 20-21, April 2018.

[4]. Mukesh Prasad Agarwal, Atma Ram Gupta, "TRAX: Smart Mobile Application to Improve the Safety and Security of Automobile Vehicles" ICICC-2018,. Lecture Notes in Networks and Systems. Springer LNNS Series. 5th -6th May,2018, New Delhi (Received best paper award).

GATE EXAMINATION:

Dhananjay Kumar from Electrical branch secured gate rank 430. Ashutosh Chauhan also managed a gate rank of 831.

RESEARCH ACHIEVMENTS:

Recevied best paper award by Mukesh Prasad Agrawal and Dr. Atma Ram Gupta for the paper entitled "TRAX: Smart Mobile Application to improve the safety and security of automobile vehicles", which was later accepted to be published in Lecture Notes in Networks and Systems. (Springer LNNS Series)

Mukesh Prasad Agrawal also brought laurels to the Electrical department by executing a very difficult project, that of the Blind Stick & got funding of 6 lakhs from the Texas Instruments for the same.

CAT EXAMINATION:

Vishal Singh managed to get the CAT score of 97.5 (percentile).

The placements this year were colossal. There were offers from many institutes including PSU's like GAIL, IRCON, BHEL, etc.
The placement statistics are improving every day .The average package for Electrical Engineering students has been 6.2 lacs. The highest package gone up to a whopping 17.4 lacs being offered by GAIL to three students of the department Among the 102 eligible students, around 84 got the placement.

Some highlights of placements are as follows:

Maharatna PSU (GAIL)

Ashutosh Joshi, Saurav Vishal, Tarun Panwar

Navratna PSU

EIL

Ashish Yadav, Yughal Kishore Meena, Keshav Verma, Vinay Bayaneni

BEL

Sahil Dhawan

Miniratna PSU (IRCON)

Dhananjay, Vishal Singh

BHARAT: BRONZE @ INTER TECHNOLOGY ATHLETICS MEET,

THAPAR UNIVERSITY

BRONZE @ALL INDIA INTER NIT AND IIT ATHLETICS MEET, IIT BHU

SILVER @ALL INDIA INTER NIT ATHLETICS MEET, NIT KKR

SILVER @ SANGRAM'18, IIT ROORKEE

4th @ ALL INDIA INTER NIT ATHLETIC MEET, NIT JAIPUR

PRAGATI MEENA: GOLD @ PEC CHANDIGARH

GOLD @ URJA FEST THAPAR UNIVERSITY

SEMI-FINALIST @ SANGRAM'18 IIT ROORKEE







Female education in India has been one of the urgent need of the new era. We cannot hope for a developed nation without proper education of the women of our country. It is very truly said that educating a man educates a man only however educating a woman educates the whole family and thus the whole nation a day.



Mohini, The candidate supported by Electroreck Society

The members of the Electroreck, the official technomanagerial society of Electrical Engineering department of the institute has come up with an initiative for the betterment of girl education by providing scholarship and full aid to a girl student of SHIKSHA SOCIETY. This is neither our first nor our last, but one of our small steps towards betterment of mankind.

ACKNOWLEDGEMENTS: -

We thank all the faculty members, administrative staff and students of Electrical Engineering Department of NIT Kurukshetra for their help and co-operation in bringing out **CURRENTS 2.0**.

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