



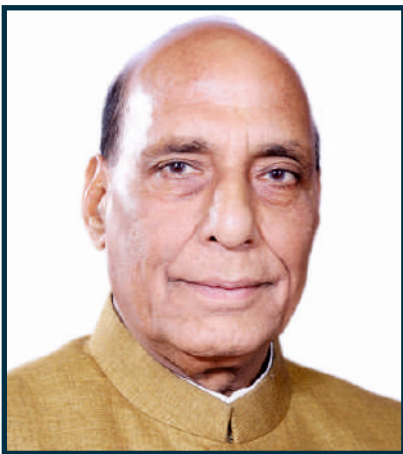
NIT
KURUKSHETRA
(Institution of National Importance)



Newsletter

17th CONVOCATION 2020

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA



welcomes

Sh. Rajnath Singh

Hon'ble Raksha Mantri
Government of India

17th
Convocation

THURSDAY
February 20, 2020

About the Chief Guest

Shri. Rajnath Singh, presently working as Hon'ble Raksha Mantri, Government of India has entered in Politics in 1974 and elected as MLA in UP Assembly in 1977.

A Post Graduate from Gorakhpur University, he became Education Minister in UP in 1991 and established landmarks by introducing the Anti-Copying Act and Vedic Mathematics in the syllabus. He became a member of the Rajya Sabha in 1994. On November 22, 1999, he became Union Surface Transport Minister and initiated the National Highway Development Program.

In 2000, he became Chief Minister of Uttar Pradesh and was twice elected as MLA from Haidergarh in 2001 and 2002. In May 2003 he become Union Minister of Agriculture and subsequently for Food Processing. During this period he initiated project like Kisan Call Center and Farm Income Insurance Scheme.

He was BJP National President from 2005 to December 2009. He was elected MP from Ghaziabad in Uttar Pradesh in 2009 and worked as Union Minister of Home Affairs from May 2014 to May 2019.



Director's Message

On the auspicious occasion of 17th Convocation of the Institute, it's indeed a matter of proud privilege and pleasure to welcome the Chief Guest, esteemed guests and degree recipients.

My heartiest congratulations to our youngest alumni who, I believe, have not just earned a degree, but have groomed themselves as the well-rounded personalities.

The Convocation is associated with a special distinction that comes from its Chief Guest, Shri Rajnath Singh, Hon'ble Raksha Mantri, Government of India.

The Institute constantly strives to enhance its contribution by generating skilful professional not only to serve the nation but also across the globe. The Institute lays focused emphasis on creating good academic ambience, enhancing innovation & research and industry connect; and providing state-of-the-art infrastructural facilities.

I am confident that with the efforts of we all, the Institute would definitely be able to scale the new heights and be the leading technical Institute in India. I urge the young graduates to come forward and contribute towards these efforts.

On the occasion, I congratulate the graduates and wish them a bright future.

Dr. Satish Kumar

TECHSPARDHA



Techspardha under the theme of “Spectrum of Innovation” was organized from 27-29 September 2019. With the objective of imparting quality education and to address problems faced by the nation through talent, this annual techno-managerial fest was celebrated with great enthusiasm. Air Marshal Sukhchain Singh, AVSM, VSM (Retd.) graced the occasion as the Chief Guest. In his address he congratulated the faculty members and students for organizing such events in order to encourage budding engineers to exploit their techno-managerial skills and to use

technology for providing meaningful solutions to contemporary social problems. Dr. Satish Kumar, Director, NIT Kurukshetra expressed his views on how technology can be used intelligently to serve nation. Events such as this provides platform to showcase their talent and inspire others. Events like ESPIRIT DE CORPS, Eureka, Game of Brains, Vidhwaan, Robo Soccer, Maze Up and many more were the highlights of the show. Students from diverse branches and all semesters participated in the events with full zeal.



CONFLUENCE



NIT Kurukshetra's annual cultural fest, Confluence, was held from the 14 October 2019 to 16 October 2019. The theme of this year's fest was **Reminiscing the 90's**, a nostalgic ode to the years gone by. The Inaugural Ceremony of the event was graced by the Director of NIT Kurukshetra, Dr. Sathish Kumar; Ms. Sofia Dahiya, from the Ministry of Social Justice and Empowerment, presided as the Chief Guest and we had the privilege of having Ms. Ragini Chandrashekhar, a renowned Bharatnatyam dancer as the Guest of Honour. The fest itself went very well, with the various clubs conducting their marquee events, such as Groove Armada, quizzes, fashion show *Libas*, Battle of Bands and Best of 2K16. The fest culminated with a musical feast for the students as they swayed to the melodious voice of the star performer for the night, Mohammed Irfan. The Valedictory Ceremony commenced with a report of the fest being presented in front of an eager audience by the Professor In-Charge, (Students' Club) Dr. Pratibha Agarwal. It contained

a brief outline of Confluence 2K19 and an account of the events held in it. This was followed by some highly inspirational words from the Hon'ble Director of the Institute, Dr. Sathish Kumar. The much-awaited award ceremony followed next with awarding the deserving students for their exceptional and outstanding performances in various competitions. The fest concluded on a happy note, with all the participants and organizers full of fresh and happy memories and anticipation for the next edition of Confluence.



GANDHI JAYANTI CELEBRATION

To mark 150th birth anniversary of Mahatma Gandhi, National Institute of Technology Kurukshetra participated as Workshop Associate in the Global Endeavor “Gandhi Global Solar Yatra” MNRE and IIT Bombay Initiative. Under this initiative the School of Renewable Energy and Efficiency of NIT Kurukshetra organized 'Student Solar Ambassador Workshop' on 2 October 2019 with the objective of establishing “the universal relevance of the principle of non-violence towards the environment.” More than 600 students participated in the event. Participants were sensitized by Dr. Lillie Dewan, Coordinator, SREE, towards the need of moving towards generation of energy through Localization for Sustainability i.e., Solar Energy. The workshop concluded in the presence of Hon'ble Director Dr. Satish Kumar, who asked the participants take pledge to protect, preserve and nurture environment and to become a responsible citizen to ensure peaceful co-existence of living beings in the world. Dr. Jyoti Ohri, Dr. Shelly Vadhera, Dr. Shashi Bhushan and Dr. Rahul Sharma served as Master Trainers.



SPORTS SECTION

The NIT Kurukshetra Sports Contingent, consistent as always, raised the bar they had set last year with an exceptional tally of medals and accolades in a variety of different sports and events.

The Institute's basketball teams had a very fruitful season indeed, with the Women's winning a silver medal and the Men's grabbing gold in the Inter Technology University Sports Association (I.T.U.S.A) Basketball, Volleyball and Yoga Tournament held in NIT Kurukshetra from the 14th to the 16th of September, 2019. Not to be left behind, the volleyball team raised the bar to a new level. The Men's team won gold in ITUSA'19.

Another asset of our college are the sparkling players of the Yoga team, in which both Women's and Men's won gold in the Inter Technology University Sports Association (I.T.U.S.A) Basketball, Volleyball and Yoga Tournament held in NIT Kurukshetra as well as silver medals in the All India Inter NIT Yoga Tournament held in NIT Silchar from the 11th to 13th October.

The Weightlifting team of the Institute also succeeded in making us proud by bagging one gold and two silver medals in the All India Inter NIT Chess, Lawn Tennis and Weightlifting Tournament held at MNIT Jaipur from 17 to 19 October 2019. The Lawn Tennis team of the Institute also put up a respectable performance, finishing 5th in the same, while the chess team also performed decently as the Women's team stood 5th and Men's team grabbed the 4th position at MNIT Jaipur. The team also won 4 bronze board prizes.



The Cricket team, as a result of rigorous practice, also went on to secure the second place in the Inter Technology University Sports Association (I.T.U.S.A) Cricket and Football Tournament held in Thapar University, Patiala from the 2nd to the 4th of November, 2019

In the All India Inter-NIT Basketball, Kabaddi and Swimming Tournament held from the 17th to the 19th January 2020 in NITK Surthakal, the Women's basketball team secured a bronze medal, while the Men's team beat all odds and secured the first place in the prestigious tournament. Shivam Malik, the captain of the Men's team, won the Most Valuable Player Award of the tournament. The Kabbadi team brought pride to the Institute by performing exceedingly well in NITK Surthakal. The Men's team proved their mettle by bagging the first place, while the Women's also performed with all their zeal and effort. Praveen Lather of the Men's team won the Best Raider Award, while Captain Ravidarshan Bishnoi got the Best All Rounder Award in the tournament.

The Athletics team of the Institute continued with their outstanding track record and bagged the second position overall at the All India Inter NIT Athletics and Volleyball Tournament held from 23 to the 25 of January, 2020. The Women's contingent were the highlight of the tournament, winning first position overall in the Women's section. The contingent returned to NIT Kurukshetra with a total tally of 5 gold, 5 silver and 4 bronze medals.

Not only the students, but the faculty members of the Institute also put up an outstanding performance at the All India Inter NIT Faculty and Staff Badminton, Chess and Table-Tennis Tournament at MNIT Jaipur, by securing 2 gold, 5 silver and 1 bronze medals and winning the second place overall.



CITIUS 2019

CITIUS 2019 was held in the Institute from the 8 November 2019 to 10 November 2019. The event witnessed enthusiastic participation from students, faculty members, staff, officers and culminated into a huge success. Dr. Sathish Kumar, Director, NIT Kurukshetra was the Chief Guest for the Inaugural Ceremony, while the Institute welcomed Mr. Sandeep Singh, former Captain Indian Hockey Team, as the Chief Guest for the Valedictory Ceremony. Ms. Ankita Kumari from B. Tech third year won the Best Athlete Award in the Women's category, while Sahil Kadyan won the Best Athlete Award in the Men's category. The second year of the Institute walked away with the Best Year Overall Trophy.



CONSTITUTION DAY

The Indian Constitution is hailed as the longest constitution amongst any sovereign nation. Consisting of 8 schedules, 22 parts, 395 articles and about 145,000 words, it describes not only the laws of the nation, but also our rights and duties as responsible citizens. Constitution Day, also known as the Samvidhan Divas or National Law Day was celebrated with great enthusiasm on 26 November at NIT Kurukshetra to commemorate the day when the Constitution was finally adopted in India. The day was celebrated in National Institute of Technology, Kurukshetra, by reading of the Preamble.



DIRECTOR'S TROPHY

The 'Director's Trophy' competition was held at the National Institute of Technology Kurukshetra during TechSpardha-2019. The objective of this program was to arouse interest of the Secondary and Senior Secondary students towards technical education. This year more than 300 students from different schools in and around Kurukshetra participated in the competition. The programme included many competitions such as rangoli making, panel games, school-got-talent etc. Maharana Pratap School emerged victorious giving a tough competition to others. Dr. Satish Kumar, Director, NIT Kurukshetra in his address praised the school students for their active participation in

diverse competitions. He appreciated the efforts of the student and in particular a team who prepared a model of smart homes. He encouraged them strive hard in developing a better future for human beings using innovative technology. Prof. In-charge (Technical Societies) Dr. V.K. Bajapi congratulated the winning teams. Faculty In-charge of the competitions, Dr. Shelly Vadhera, thanked all the guests and participants for their cooperation in making the program a grand success.



ACADEMIC ACTIVITIES AT A GLANCE

SEMINAR/CONFERENCE/WORKSHOP/STC/LECTURES

Training/Conference/Symposium etc. attended

| Sr. No | Name of the faculty & Designation Prof./Dr./Sh./Ms. | Area of Training | Type | Venue | Duration of Training |
|--------|---|--|------|--|----------------------|
| 1. | Mantosh Biswas Asstt. Prof., CoED | Land Use Land Cover Modelling Using Open Source | STC | IIT, Kharagpur | 13.10.19 - 19.10.19 |
| 2. | Sudhanshu Choudhary Asstt. Prof., ECE | Fundamentals of Brain Inspired Robotics | STC | IIT, Kanpur | 25.11.19 - 28.11.19 |
| 3. | Geeta Sachdeva Asstt. Prof., HSS | International Conference on New Paradigms in Management Education : Vision 2025 | IC | Mohan Lal Sukhadia University, Udaipur | 29.11.19 - 30.11.19 |
| 4. | Vikram Singh Asstt. Prof., CoEd | International Conference on Big Data Analytics (BDA 2019) | IC | Ahmedabad University, Ahmedabad | 18.12.19 - 20.12.19 |
| 5. | Mahesh Pal Professor, CED | HYDRO 2019 - International Conference | IC | Osmania University, Hyderabad | 18.12.19 - 20.12.19 |
| 6. | Gyanendra Kr. Verma Asstt. Prof., CoED | 3 rd International Conference on Computing & Network Communications | IC | IITM Kerala, Trivandrum | 18.12.19 - 21.12.19 |
| 7. | Priyanka Ahlawat Asstt. Prof., CoED | 3 rd International Conference on Data Engineering & Communication Systems | IC | RNS Institute of Technology, Bengaluru | 19.12.19 - 20.12.19 |

International Conference (Abroad)

| | | | | | |
|----|--|--|----|---|--------------------|
| 1. | Sarika Jain Asstt. Prof., CA | IEEE 13 th International Symposium on Embedded Multicore / Many-core Systems -on- Chip (MCSoc-2019) | IC | Nanyang Technological University, Singapore | 1.10.19 - 4.10.19 |
| 2. | Sudakar Singh Chauhan Asstt. Prof., ECE | 2 nd International Conference on Sensors, Signal and Image Processing (SSIP-2019) | IC | Prague, Czech Republic | 8.10.19 - 10.10.19 |
| 3. | Gaurav Verma Asstt. Prof., ECE | 2 nd International Conference on Sensors, Signal and Image Processing (SSIP-2019) | IC | Prague, Czech Republic | 8.10.19 - 10.10.19 |

List of Training/Conferences/Symposium etc. conducted

| Sr.No. | Title | Coordinators | Duration |
|--------|---|--|------------------|
| 1. | International Conference on Cyber Security (ICCS-2019) | Prof. Mayank Dave Dr. Priyanka Ahlawat | Nov. 29-30, 2019 |
| 2. | International Conference on Advanced Communication & Computational Technology | Dr. Sudakar S. Chauhan Dr. Gaurav Verma | Dec. 6-7, 2019 |

EXPERT LECTURES

| Sr. No. | Topic of Expert Lecture | Name of Expert | Dept. | Date |
|---------|---|---|-------|----------|
| 1. | Personality Development | Ms. Madhu Sharma, Corporate Trainer, Gurugram | DBA | 7.10.19 |
| 2. | Restoration from Noisy Images | Prof. Karam Veer Arya, ABV Indian Institute of Information Technology & Management, Gwalior | DCA | 19.12.19 |
| 3. | Internet of Things | Prof. Yudhvir Singh MDU Rohtak | DCA | 19.12.19 |
| 4. | Machine learning | Prof. S. Balasundaram, School of Computer & Systems Sciences, JNU, New Delhi | DCA | 20.12.19 |
| 5. | Cyber Security or Sentiment Analysis | Dr. Amit Bhagat Asstt. Professor, MANIT Bhopal | DCA | 20.12.19 |
| 6. | Computer Vision | Prof. Goutam Sanyal NIT Durgapur | DCA | 21.12.19 |
| 7. | Soft Computing | Prof. Dilip Kumar Yadav NIT Jamshedpur | DCA | 21.12.19 |
| 8. | Applications of Stochastic Processes in Queuing Theory | Prof. Murulidhar N N NIT Karnataka (Surthkal) | DCA | 23.12.19 |
| 9. | Fault Tolerant Computing | Dr. Jimson Mathew Associate Professor IIT Patna | DCA | 23.12.19 |
| 10. | DLT & its Application in Secure & Decentralized Property Transaction System | Prof. D S Kushwaha MNIT, Allhabad | DCA | 23.12.19 |
| 11. | Robust Security Techniques for Medical Images | Dr. Harsh Vikram Singh Associate Professor, Kamla Nehru Institute of Technology, Sultanpur | DCA | 24.12.19 |

BEST PAPER AWARD 2018-19



Prof. Dixit Garg, Department of Mechanical Engineering

National Council of Indian Institution of Industrial Engineering conferred the Best Paper Award for his paper titled "An Analysis of Critical Success Factors for Industry 4.0: An Application of Analytical Hierarchy Process" published in Vol XI, Issue No. 09 of Industrial Engineering Journal in September 2018 issue.

CONFERENCE/WORKSHOP/STC/EXPERT LECTURE ORGANIZED UNDER TEQIP-III

| | | | |
|--|--|---|-----------------------------|
| 1. | Prof. R P Chauhan Dr. Anurag Gaur Dr. Prakash Chand Physics | STC on Advanced Nanomaterials for Energy Storage Devices | 19.10.2019 to 23.10.2019 |
| 2. | Dr. Avijit K. Paul, Chemistry | Expert lecture on Advanced Materials in Futuristic Devices | 04.11.2019 |
| 3. | Prof. R P Chauhan, Physics | Interactive Curriculum Development workshop | 09.11.2019 |
| 4. | Dr. Shahida, AP, HSS | National Seminar on Gender Equity and Social Inclusion: Challenges and Road Ahead | 21.11.2019 |
| 5. | Dr. Babita Saini Dr. H D Chalak, CED | STC on Advances in Structural Engg. 2019 | 09.12.2019 to 14.12.2019 |
| 6. | Dr. Shahida, AP, HSS | Workshop on Professional Communication Skills and Work Culture | 16.12.2019 to 20.12.2019 |
| 7. | Prof. A. Swarup, EED | Expert lecture on Assistive Robotics: Challenges & Opportunities | 18.12.2019 |
| 8. | Prof. Mayank Dave, COE | STTP on Design and Development of MOOCs | 02.01.2020 to 06.01.2020 |
| Students Industrial Visit under TEQIP-III | | | |
| 1. | Prof. Dinesh Khanduja, MED | One day Industrial visit of around 50 students of 3rd year of B.Tech. (MED & PIE) and M.Tech. along with 4/5 faculty at CSIO, Chandigarh | 21.11.2019 |
| 2. | Prof. Dinesh Khanduja, MED | One day Industrial visit at TBRL, Chandigarh | 27.11.2019 |

SPONSORED RESEARCH PROJECTS (Sanctioned 2019-20)

Project Title : "Performance Assessment of Roads Constructed Using Waste Plastics"
Funding Agency : National Rural Infrastructure Development Agency (NRIDA) , Under Ministry of Rural Development, Govt. of India
Project Cost : ₹2050000/-
Department : Civil Engineering
Principal Investigator (PI) : Prof. S.N. Sachdeva
Co-Principal Investigator : Prof. Praveen Aggarwal

Project Title : "Behavior of Indoor Radon-Thoron Decay Products: CFD Simulations and Validation Through Measurements"
Funding Agency : Board of Research in Nuclear Sciences (BRNS) Mumbai, Govt. of India
Project Cost : ₹33,58,5,00/-
Department : Physics
Principal Investigator (PI) : Dr. R.P. Chauhan

Project Title : " Removal of organic and inorganic toxins from electronic waste using isolated bacterial species and competent phytoremediators "
Funding Agency : SERB-DST, Women Scientist Scheme -A (WOS-A)
Project Cost : ₹28,57,000/-
Department : Civil Engineering
Principal Investigator (PI) : Dr. Shailu Dalal Guin
Mentor/Guide : Prof. Surinder Deswal

Project Title : "Correlation between Psychological and Physiological Parameters of Stress Among Staff and Students-AN Empirical Study "
Funding Agency : LSRB (DRDO)
Project Cost : ₹36,64,000/-
Department : Business Administration
Principal Investigator (PI) : Prof. Neeraj Kaushik
Co-Principal Investigator : Prof. Rajender Kumar

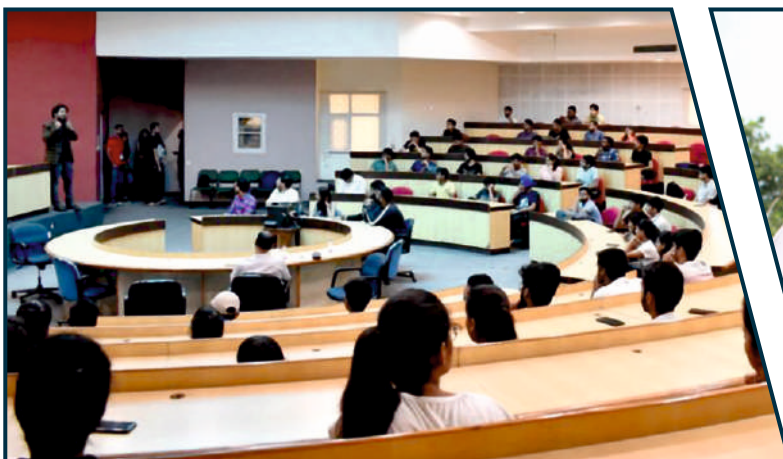
Project Title : "Development of novel solid lithium ionic conductors for advanced lithium ion battery applications"
Funding Agency : Alexander von Humboldt Foundation, Germany
Project Cost : 53,600 EUR
Department : Physics
Principal Investigator (PI) : Dr. C.R. Mariappan

MEMORANDUM OF UNDERSTANDING



| Sr. No. | Memorandum of Understanding | Signing Date |
|---------|---|--------------|
| 1. | Indian Space Research Organisation (ISRO), Bengaluru | 04.11.2019 |
| 2. | EdCIL (India) Limited., A CPSE Under MHRD, Implementing Partner for Study in India, A Programme Under Ministry of Human Resource Development, Government of India | 10.11.2019 |
| 3. | CSIR-Central Scientific Instruments Organisation Chandigarh | 11.11.2019 |
| 4. | India Accelerator Pvt. Ltd. Gurgaon, Haryana & Pingala AI Pvt. Ltd Noida, UP | 12.12.2019 |
| 5. | Haldia Institute of Technology, West Bengal | 12.12.2019 |
| 6. | L&T Technology Services Ltd, Mumbai | 05.12.2019 |





EDITORIAL TEAM

Prof. Mahesh Pal, Dean (R & C)

Dr. Anurag Gaur (Convener)

Dr. Shahida, Faculty-in-charge (Institute Newsletter and Magazine),

Members : Nikhil, Kundan, Nandini, Urvi, Hemant, Kaustubh, Ishara, Manoj Kumar