

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY



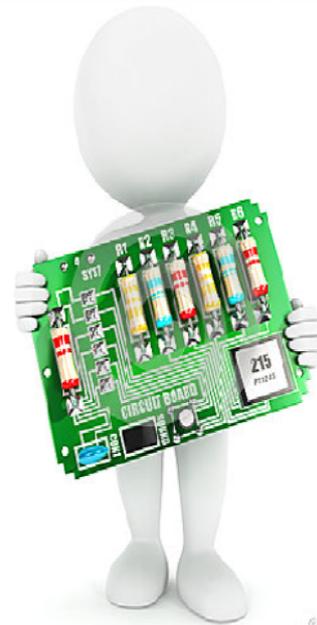
DEPARTMENT OF ELECTRONICS & COMMUNICATION

NEWSLETTER

April-June 2019

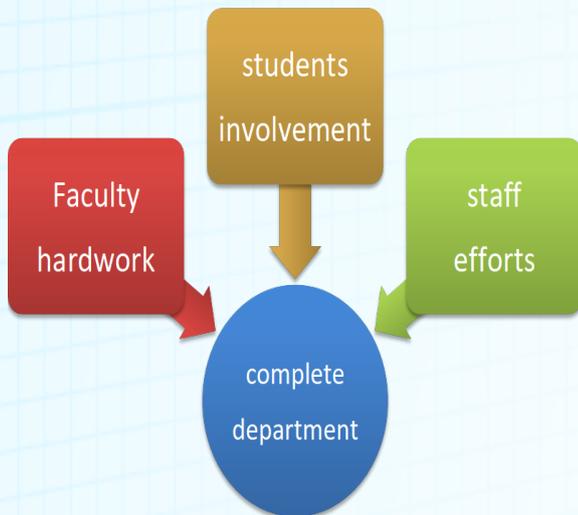
Vision

To create a centre for imparting technical education of international standards and conduct research at the cutting edge of electronics & communication technology to meet the current and future challenges of technological development.



Mission

To create technical manpower for meeting the current and future demands of industry and academia: to recognize education and research in close interaction with electronics & communication & related industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the institute with sensitivity to social development and eye for opportunities for growth in the international perspective.



*If you read only what
Everyone else is reading,
You can only think
What everyone else
is thinking.*

NOTABLE PUBLICATIONS

Girraj Sharma, Ritu Sharma , "Energy Efficient Collaborative spectrum sensing with clustering of secondary users in cognitive radio Networks" , IET Communications Volume :10 / 12 / 2019

Chinnamuthan Periasamy and Arathy Varghese , "Design and fabrication of AlGaIn/GaN high electron mobility transistors for biosensing applications" , CSI Transactions on ICT Volume :1 / 1-3 / 2019 ISBN: 277-9086

Vivek Raghuvanshi, Deepak Bharti, Ajay Kumar Mahato, Ishan Varun, Shree Prakash Tiwari , "Solution-Processed Organic Field-Effect Transistors with High Performance and Stability on Paper Substrates" , ACS applied materials & interfaces Volume :11 / 8357 / 2019

Muquaddar Ali, K.K.Sharma, R.P.Yadav , "Empirical Design Formulae for Series - fed SIW Power Divider" , International Journal of RF and Microwave Computer-Aided Engineering Volume :28 / 1-38 / 2019

R.Gupta and S. J. Nanda , "Vector-Angle Penalized NSGA-III to Solve Many-Objective Optimization Problems" , IET Electronics Letters Volume :55 / 198-200 / 2019 ISBN: ISSN 0013-5194

Prateek Jain, Ravi Maddila, Amit M. Joshi , "A precise non-invasive blood glucose measurement system using NIR spectroscopy and Huber's regression model" , Optical and Quantum Electronics Volume :51 / 1-15 / 2019

R K Chaurasiya , "Optimizing the Performance of Devanagari Script-Based P300 Speller System Using Binary PSO Algorithm" , International Journal of Business Analytics (IJBAN) Volume :0000 / 0-0 / 2019 ISBN: 2334-4547

Chandra Prakash Gupta, Shashi Kant Sharma, Basanta Bhowmik, K. T. Sampath, C. Periasamy and Sandeep Sancheti , "Development of Highly Sensitive and Selective Ethanol Sensors Based on RF Sputtered ZnO Nanoplates" , IEEE Journal of Electronic Materials, (Accepted for Publication) Volume :3 / 1-8 / 2019 ISBN: 0361-5235

Minzioni. Paolo, Lacava. Cosimo, Singh. Ghanshyam, Willner. Alan, Eggleton. Benjamin, et al. , "Roadmap on all-optical processing" , Journal of Optics (SCI, I.F.: 2.753) Volume :21 / 1-55 / 2019 ISBN: 2040-8986

Yogendra Gupta, Lava Bhargava, Ashish Sharma, MS gaur , "Hybrid Buffers based Coarse-Grained Power Gated Network on Chip Router Microarchitecture" , International Journal of Electronics Volume :10 / 239-250 / 2019

Shanky Saxena, Ritu Sharma, B D Pant , "Fabrication and Comparison of Guided Two Beam and Four Beam Piezoelectric Energy Harvester for low Frequency operation" , IEEE Journal of Microelectromechanical Systems Volume :10 / 8 / 2019

Sandeep Saini and Vineet Sahula , "Language Learnability Analysis of Hindi: A Comparison with Ideal and Constrained Learning Approaches" , Springers Journal of Psycholinguistic Research Volume :48 / 12 / 2019 ISBN: 1573-6555

Workshops/Short Term Courses STCs/FDPs

International Short Term Course on GIAN course on Principles of Bio-Photonics conducted at MNIT Jaipur, India from 24-06-2019 to 05-07-2019. The Expert were Prof Alessandro M Deana, University Nove de Julho, Brazil.

National Short Term Course on FDP on Robotics and Artificial Intelligence at MNIT Jaipur, Jaipur, India from 24-06-2019 to 28-06-2019.

National Workshop on One Week Global NKN Summer Faculty Development Program on "Advancements in Signal Processing and Optimization Techniques" at Electronics and ICT Academy, MNIT, Jaipur, India organized from 03-06-2019 to 07-06-2019.

National Short Term Course on Wireless Communication and Signal Processing Techniques at MNIT, Jaipur, India held from 20-05-2019 to 24-05-2019.

Seminars/Conferences/Symposia organized

National Conference on Advanced Communication Technologies and Networks (ACTN) 2019 at MNIT, JAIPUR, India was held from 20-06-2019 to 21-06-2019.

PLACEMENT DATA:

Highest package offered to UG students was 32.5 LPA

Highest package offered to PG students was 8 LPA.

Average package for UG students was 10 LPA.

Average package for PG students was 4.9 LPA

Article

Readers' choice

Drones in agriculture



An agricultural drone is an unmanned aerial vehicle applied to farming in order to help increase crop production and monitor crop growth. Sensors and digital imaging capabilities can give farmers a richer picture of their fields. This information may prove useful in improving crop yields and farm efficiency.

Agricultural drones let farmers see their fields from the sky. This birds-eye view can reveal many issues such as irrigation problems, soil variation, and pest and fungal infestations. Multispectral images show a near-infrared view as well as a visual spectrum view. The combination shows the farmer the differences between healthy and unhealthy plants, a difference not always clearly visible to the naked eye. Thus, these views can assist in assessing crop growth and production..

Agricultural drones can also be used as pesticide spray which is as such harmful for human beings but crops need it many times.

– Dr.Menka Yadav

designed and edited by:

Lalit Agrawal

2018uec1778

2nd year, ECE ,MNIT jaipur

PHD Awarded:

Name -Mrs. Urvashi Prakash Shukla

Enrollment ID- 2014REC9001

15-Apr-19

PHD Topic: Clustering Algorithms Based on Social Spider Optimization for Hyperspectral Image Analysis.

Internships in India:

- 1) Surge (IIT Kanpur)
- 2) Eklavya (IIT Bombay)
- 3) IAS (For all IITs and other colleges)
- 4) SRFP (IIT Delhi)
- 5) SFP (IIT Madras)
- 6) CSE Department (IIT Kharagpur)
- 7) EEE Department (IIT Guwahati)
- 8) CSE Department (IIT Guwahati)
- 9) Narendra summer internship (IISc)

Scholarships:

For abroad:

- ❖ Mitacs: last date for form September 18
- ❖ USC- Viterbi: last date for form 31 August
- ❖ NTU-India connect :last date for fillup is 1 August to 10 September
- ❖ IAS: last date for form 26th September
- ❖ SRFP: last date for form 30 November

Internships Abroad:

- DAAD-WISE(Germany)
- Mitacs(Canda)
- SN Bose(USA)
- Charpak(France)
- ThinkSwiss Asia Pacific(Switzerland)
- USC-Viterbi (USA)
- NTU-India Connect (Singapore)