

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS & COMMUNICATION



NEWSLETTER

January-June 2017

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.



*Your time is limited. So don't waste it
Living someone else's life.*

-Steve Jobs

NOTABLE PUBLICATIONS

R K Chaurasiya, N D Londhe, and S Ghosh , "Multi-objective Binary DE algorithm for Optimizing the Performance of Devanagari Script-Based P300 Speller" , Biocybernetics and Biomedical Engineering Volume :37 / 422-431 / 2017 ISBN: 0208-5216

N. Pornsuwancharoen, I. S. Amiri, F.H. Suhailin, M.A. Aziz, J. Ali, G. Singh and P. Yupapin , "Micro-Current Source Generated by a WGM of Light within a Stacked Silicon-Graphene-Au Waveguide" , IEEE Photonics Technology Letters (SCI Journal, IF: 2.34) Volume :29 / 1768-1771 / 2017 ISBN: 1941-0174

S. Singhal and A. K. Singh , "Modified Star-Star Fractal (MSSF) Super-Wideband Antenna" , Microwave and Optical Technology Letters Volume :59 / 624-630 / 2017

John Erick Ortiz Guzman, Simon B Adrian, Rajendra Mitharwal, Yves Beghein, Thomas F. Eibert, Kristof Cools, Francesco P. Andriulli , "On the hierarchical preconditioning of the PMCHWT integral equation on simply and multiply connected geometries" , IEEE Antennas and Wireless Propagation Letters Volume :16 / 1044-1047 / 2017

Khushboo Jain, H. S. Pannu, Kuldeep Singh, Avleen Malhi , "Efficient disparity estimation from stereo images using hybrid-guided image filter" , The Imaging Science Journal Volume :66 / 139-151 / 2017

N.D. Gupta and V. Janyani , "Lambertian and Photonic Light Trapping Analysis with Thickness for GaAs Solar Cells based on 2D Periodic Pattern" , IET Optoelectronics Volume :11 / 217-224 / 2017

Amit Garg, Amresh Madavi, and Vijay Janyani , "Energy Efficient Flexible Hybrid WDM-TDM Passive Optical Network with Pay as You Grow Deployment" , OPTICAL ENGINEERING Volume :56 / 026119 / 2017 ISBN: ISSN:0091-3286

L. Rajan, C. Periasamy, V. Sahula, Vijaykumar K. , "An Investigation on Electrical and Hydrogen Sensing Characteristics of RF Sputtered ZnO Thin-Film with Palladium Schottky Contacts" , IEEE Sensors Journal Volume :17 / 14-21 / 2017 ISBN: 1530-437X (N-1)

S. Singhal, A. Pandey and A. K. Singh , "CPW-Fed Circular Shaped Fractal Antenna With Third Iterative Orthogonal Elliptical Slots for UWB Applications" , International Journal of Microwave and Wireless Technologies Volume :9 / 373-379 / 2017

Sugak Dmytro, Syvorotka Ihor, Buryy Oleh, Yakhnevych Uliana, Solskii Ivan, Martynyuk Natalia, Suhak Yuriy, Ghanshyam Singh, Ubizskii Serhii, et al. , "Spatial distribution of optical coloration in single crystalline LiNbO3 after high-temperature H2/air treatments" , Optical Materials (SCI Journal, IF: 2.023) Volume :70 / 106-115 / 2017

Tanushree Sharma, K.K. Sharma , "A New Method for QRS Detection in ECG Signals using QRS-Preserving Filtering Techniques" , Biomedical Engineering / Biomedizinische Technik Volume :63 / 207-217 / 2017

Nidhi Saxena, K.K. Sharma , "A Novel Pansharpening Approach Using Hilbert Vibration Decomposition, Accepted for Publication" , IET Image Processing Volume :11 / 1152-1162 / 2017

Sabiha Khan, Varsha goyal, Ritu Sharma, Varshali Sharma, K.S.Sharma , " Investigation of the Effect of Boron and Nitrogen substitution on electronic structure of graphene" , Flatchem Volume :1 / 13 / 2017 ISBN: 2452-2627

Ishan Varun, Deepak Bharti, Vivek Raghuwanshi, and Shree Prakash Tiwari , "Multi-Temperature Deposition Scheme for Improved Resistive Switching Behavior of Ti/AlOxTi MIM Structure" , Solid

State Ionics Volume :309 / 86-91 / 2017

Sugak Dmytro, Syvorotka Ihor, Buryy Oleh, Yakhnevych Uliana, Solskii Ivan, Martynyuk Natalia, Suhak Yuriy, Ghanshyam Singh, Ubizskii Serhii, et al. , "Spatial distribution of optical coloration in single crystalline LiNbO₃ after high-temperature H₂/air treatments" , Optical Materials (SCI Journal, IF: 2.023) Volume :70 / 106-115 / 2017

shanky Saxena, Ritu Sharma, B.D. pant , "Dynamic characterization of fabricated guided two beam and four beam cantilever type MEMS based piezoelectric energy harvester having pyramidal shape seismic mass" , Microsystem Technology Volume :1 / 12 / 2017 ISBN: 0946-7076

Tarun Varma, C. Periasamy and Dharmendar Boolchandani , "Performance analyses of Schottky diodes with Au/Pd contacts on n-ZnO thin films as UV detector" , Superlattices and Microstructures Volume :112 / 151-163 / 2017 ISBN: ISSN:0749-6036

K. Chaiwong, K. Tamee, S. Punthawanunt, F.H. Suhailin, M.A. Aziz, J. Ali, G. Singh and P. Yupapin , "Naked-Eye 3D Imaging Model using the Embedded Micro-Conjugate Mirrors within the Medical Micro-Needle Device" , Microsystem Technologies (SCI Journal) Volume :11 / 1-5 / 2017 ISBN: 1432-1858

Lyes Rahmouni, Rajendra Mitharwal, Francesco P. Andriulli , "Two volume integral equations for the inhomogeneous and anisotropic forward problem in electroencephalography" , Journal of Computational Physics Volume :348 / 732-743 / 2017

Anatoliy Andrushchak, Oleh Buryy, Zenon Hotra, Nazariy Andrushchak, Orest Sushynskiy, Ghanshyam Singh, Vijay Janyani, Ivan Kityk , "The General Method of Extreme Surfaces for Geometry Optimization of the Linear Electro-Optic Effect on Example of LiNbO₃:MgO Crystals" , Applied Optics (SCI Journal, IF: 1.649) Volume :56 / 6255-6262 / 2017

Hemant Meena, K.K. Sharma, S.D. Joshi , "Improved Facial Expression Recognition Using Graph Signal Processing" , IET Electronics Letters Volume :53 / 718-720 / 2017

Praveen K. Jain, Umesh Chand, C. Periasamy, Mohammad Salim , "Switching Characteristics in TiO₂/ZnO Double Layer Resistive Switching Memory Device" , Materials Research Express(IMPACT FACTOR:0.968) (Accepted for Publications) Volume :0 / 1-6 / 2017 ISBN: 0

Ashwani Kumar Sharma, Inaki Garcia, Asier Perallos Ruiz, Deepak Bhatnagar, Ghanshyam Singh , "Magnetic-field forming using planar multi-coil antenna to generate orthogonal H-field components" , IEEE Transactions on Antennas and Propagation (SCI Journal, IF: 2.95) Volume :65 / 1-8 / 2017 ISBN: 1558-2221

N. Sharma, C.Periasamy and N. Chaturvedi , "Performance Analysis of GaN Capping Layer Thickness on GaN/AlGaN/GaN HEMTs (Accepted for Publications , Impact Factor-1.48)" , Journal of Nanoscience and Nanotechnology Volume :1 / 1-8 / 2017

Raju Patel, Vimal Kumar Agrawal, D. Boolchandani, and K. J. Rangra , "Design of MEMS based Film Bulk Acoustic Wave Resonator" , Materials Today: Proceedings Volume :4 / 10377-1038 / 2017 ISBN: 2214-7853

Lokesh Kumar Jangir, Purva Bansal, Yogita Kumari, KC Swami, Manoj Kumar, Ghanshyam Singh, and Kamendra Awasthi , "Effective Doping of Er³⁺ in ZnO Nanoparticles to Control Its Luminescent Properties" , Macromolecular Symposia (SCOPUS indexed Journal) Volume :376 / 1-6 / 2017

Yves Beghein, Rajendra Mitharwal, Kristof Cools, Francesco P. Andriulli , "On a low-frequency and refinement stable PMCHWT integral equation leveraging the quasi-Helmholtz projectors" , IEEE Transactions on Antennas and Propagation Volume :65 / 5365-5375 / 2017

National Short Term Course on VLSI Digital Circuit design at MNIT, JAIPUR, India from 03-06-2017 to 17-06-2017

National Workshop on " Two Week Faculty Development Program on Fundamentals of Analog and Digital Communication Systems" at Electronics and ICT Academy, MNIT Jaipur, Jaipur, India from 13-05-2017 to 22-05-2017

National Workshop on Technical Report writing and authoring of Research Manuscripts with Latex at MNIT Jaipur, Jaipur, India from 14-04-2017 to 16-04-2017

National Short Term Course on Application of Internet of Things(IOT) in Electrical and Electronics Engineering at MNIT, JAIPUR, India from 27-03-2017 to 01-02-2017

Seminars/Conferences/Symposia organized

International Conference on International Conference on Optical and Wireless Technologies (OWT-2017) at MNIT Jaipur, JAIPUR, India from 18-03-2017 to 19-03-2017

International Conference on Optical and Wireless Technologies (OWT-2017) at MNIT , Jaipur, India from 18-03-2017 to 19-03-2017

PLACEMENT DATA:

Highest package offered to UG students was 14.5 LPA

Highest package offered to PG students was 9.6LPA.

Average package for UG students was 7.03LPA.

Average package for PG students was 5.97 LPA

PHD Awarded:

2012REC9052

LINTU RAJAN

Topic: "Design, Fabrication and Characterization of Zinc Oxide Thin Film Based Schottky Diodes for Hydrogen Sensing Applications" Dr. Vineet Sahula and Dr.C.Periasamy

2012REC9015

SANDEEP VYAS

2012REC9530

NIKHIL DEEP GUPTA

2013REC9056

HEMANT SHARMA

Topic:"Investigations on ECG Signals for Deriving Respiratory Signal and Sleep Apnea Detection" Dr. K.K Sharma

2012REC9031

RUKHSAR ZAFAR

designed and edited by:

Lalit Agrawal

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2nd year