

UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY (UIET)

DIRECTOR: Prof. C.C. Tripathi

PROFESSORS – Dr. C.C. Tripathi, Ph.D.

ASSISTANT PROFESSORS- (i) Ms. ReetaDahiya (ii) Dr. Monish Gupta (iii) Mr. Puneet Bansal (iv) Dr. Nikhil Marriwala (v) Ms. Priyanka Jangra,(vi) Dr. Deepak Sood (vii) Ms. DeeptiChoudhary (viii) Dr. RandhirBoria (ix) Dr. RandhirBoria (x) Mr. Nafeesh Ahmed (xi) Mr. Krishan Gopal (xii) Ms. ShefaliMunjhal(xiii) Ms. Shikha Bhardwaj (xiv) Mr. Rahul Gupta (xv) Dr. Pranay Jain (xvi) Dr. Anita Punia (xvii) Dr. Rajesh Kumar (xviii) Dr. Deepak Malik (xix) Dr. Amita Gupta (xx) Dr. SunitaKhattak (xxi) Dr. Sona Malhotra (xxii) Dr. Kulvinder Singh (xxiii) Dr. KarambirBidhan (xxiv) Dr. Sanjeev Dhawan (xxv) Dr. Naresh Kumar (xxvi) Ms. Poonam Dabas (xxvii) Dr. Ajay Jangra (xxviii) Dr. ChanderDiwakar (xxix) Dr.SanjayKajal (xxx) Mr. UpenderDhull (xxxii) Mr. Manjeet Singh Bohat (xxxiii) Mr. Vishal Ahlawat (xxxiiii) Mr. Sunil Nain (xxxiv) Dr. Sunil Dhingra (xxxv) Dr. AnuradhaParinam (xxxvi) Mr. LalitNagpal (xxxvii) Mr. Ram Avtar (xxxviii) Mr. Vijay Kumar Garg (xxxix) Dr. PawanDiwan(xxxx) Dr. Savita Gill (xxxxi) Dr. Rajesh Agnihotri (xxxxii) Dr. Urmila (xxxxiii) Dr. Sanjeev Ahuja

Students:

| Class | Boys | Girls | Total |
|---------|------|-------|-------|
| B.Tech. | 311 | 120 | 431 |
| M.Tech. | 26 | 15 | 41 |
| Ph.D | 05 | 10 | 15 |
| Total | | 145 | 487 |

Research Work

Ph.D. Awarded

| Name of scholar | Title of thesis | Name of guides | Month and year of award |
|-----------------|-----------------|----------------|-------------------------|
| Nil | Nil | Nil | Nil |

Research Contribution of Teaching Staff:

| Name of Teacher | Topic/Field of Research | Journal/Book |
|------------------------|--|--|
| C.C. Tripathi | Significance of nano-materials, designs consideration and fabrication techniques on performances of strain sensors - A review | Materials Science in Semiconductor Processing |
| C.C. Tripathi | Fabrication of serpentine and I structured graphene-CNT based highly sensitive and flexible strain sensors | Microelectronic Engineering |
| C.C. Tripathi | Mobile Radio Communications and 5G Networks: Proceedings of MRCN 2020 | Springer Nature |
| C.C. Tripathi | Fabrication of Serpentine and I structured Graphene-CNT based Highly Sensitive and Flexible Strain Sensors; | Microelectronic Engineering |
| C. C. Tripathi | Fabrication of reduced graphene oxide modified poly(3,4-ethylenedioxythiophene) polystyrene sulfonate based transparent conducting electrodes for flexible optoelectronic application; | SN Applied Sciences (2021) 3:26 https://doi.org/10.1007/s42452-020-04034-w , Published online 7th Januar 2021 |
| C.C. Tripathi | Metal Insulator Metal Diode: A Potential Candidate for Energy Harvesting Applications. | Journal of Nanoscience & Nanotechnology, American Scientific Publisher, 20 (June 2020),3780–3784, American Scientific Publisher, USA. ISSN: 1533-4880 (Print); EISSN: 1533-4899 (Online) |
| C C. Tripathi | High-performance ultra-low leakage current graphene-based screen-printed FET on paper substrate. | Pramana – J. Phys. (2020) 94:31 © Indian Academy of Sciences https://doi.org/10.1007/s12043-019-1906-0 (January 2020) ISSN:0304-4289 (print); 0973-7111 (online) |
| C C Tripathi | Optical and Electrical Investigations of Rubbing Assisted Few-Layer Graphene Thin Film for Feasibility of Flexible Electrode; | Optik International Journal for Light and Electron Optics (ISBN/ISSN No.: 0030-4026), February 2020, Vol. No.: 203,163989, ISSN: 0030-4026 |

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|-----------------|---|--|
| Pranay Jain | Endophytic fungi as a reservoir of Lignocellulolytic Enzymes- A Review | Research Journal of Biotechnology |
| Pranay Jain | Mucormycosis (The Black Fungus) associated with COVID-19 patients- Epidemiology, pathogenesis, diagnosis and treatment regimes. | International Journal of Pharmaceutical Sciences and Research |
| Deepak Malik | Prospecting application and classification of nanoparticle: | International journal of biology, pharmacy and Applied Sciences |
| Sanjay Kajal | Preference selection of brake friction composite using entropy-VIKOR technique | Materials Today: Proceedings |
| Sanjay Kajal | Performance analysis of different U-shaped heat exchangers in parabolic trough solar collector for air heating applications | Case Studies in Thermal Engineering |
| Sanjay Kajal | Performance Optimization of Plywood Manufacturing System Using Particle Swarm Optimization | IUP Journal of Mechanical Engineering |
| Sanjay Kajal | Assessment of Optimum Automotive Brake Friction Formula by Entropy-VIKOR Technique | Multi-Criteria Decision Modelling |
| Monish Gupta | Ship Detection from Highly Cluttered Images Using Convolutional Neural Network | Wireless Personal Communications |
| Monish Gupta | Significance of nano-materials, designs consideration and fabrication techniques on performances of strain sensors - A review | Materials Science in Semiconductor Processing |
| Kulvinder Singh | Plane wave in non-local semiconducting rotating media with Hall effect and three-phase lag fractional order heat transfer | International Journal of Mechanical and Materials Engineering 16 (1), 1-16 |
| Kulvinder Singh | Fractional order strain analysis in thick circular plate subjected to hyperbolic two temperature | Partial Differential Equations in Applied Mathematics 4, 100130 |

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| Kulvinder Singh | Correction to: Memory-dependent derivative approach on magneto-thermoelastic transversely isotropic medium with two temperatures | International Journal of Mechanical and Materials Engineering 16 (1), 1-1 |
| Kulvinder Singh | Effect of memory dependent derivative and variable thermal conductivity in cantilever nano-Beam with forced transverse vibrations | Forces in Mechanics 5, 100043 |
| Kulvinder Singh | Fiber-reinforced magneto-thermoelastic composite material with hyperbolic two-temperature, fractional-order three-phase lag and new modified couple stress theory | |
| Kulvinder Singh | Thermal stresses due to non-uniform internal heat generation in functionally graded hollow cylinder | International Journal of Applied Mechanics and Engineering 26 (2), 186-200 |
| Kulvinder Singh | Thermomechanical deformation in a transversely isotropic magneto-thermoelastic rotating solids under initial stress | Partial Differential Equations in Applied Mathematics 3, 100028 |
| Kulvinder Singh | Reflection of plane harmonic wave in rotating media with fractional order heat transfer and two temperatures | Partial Differential Equations in Applied Mathematics, 100049 |
| Kulvinder Singh | New analytical method for dynamic response of thermoelastic damping in simply supported generalized piezothermoelastic nanobeam | ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte |
| Kulvinder Singh | Thermoelastic damping in a thin circular transversely isotropic Kirchhoff–Love plate due to GN theory of type III | Archive of Applied Mechanics 91 (5), 2143-2157 |

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| Kulvinder Singh | Study of frequency shift and thermoelastic damping in transversely isotropic nano-beam with GN III theory and two temperatures | Archive of Applied Mechanics 91 (4), 1697-1711 |
| Kulvinder Singh | Transversely isotropic visco-thermo-elastic nanobeam with time harmonic laser pulse and new modified three phase lag Green-Nagdhi model | ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte |
| Kulvinder Singh | Transversely isotropic Euler Bernoulli thermoelastic nanobeam with laser pulse and with modified three phase lag Green Nagdhi heat transfer Parveen Lata, Iqbal Kaur, Kulvinder Singh | Steel and Composite Structures 40 (6), 829-838 |
| Kulvinder Singh | Improved performance of machine learning algorithms for prognosis of cervical cancer | Advances in Computational Design 6 (3), 191-205 |
| Kulvinder Singh | Cervix Image Classification for Prognosis of Cervical Cancer using Deep Neural Network with Transfer Learning | EAI Endorsed Transactions on Pervasive Health and Technology 7 (27), e5 |
| Kulvinder Singh | Effect of Laser Pulse in Modified TPL GN-Thermoelastic Transversely Isotropic Euler-Bernoulli Nanobeam | Soft Computing for Intelligent Systems, 59-81 |
| Kulvinder Singh | An Analysis and Comparison of Community Detection Algorithms in Online Social Networks | Intelligent Computing and Communication Systems, 363-370 |
| Kulvinder Singh | Analytical Breakthrough of Pennes' Bioheat Model in Malignant Tissues Exposed to Thermal Radiation: In Silico Investigation with Fractional-Order Three-Phase Lag | Soft Computing for Intelligent Systems, 275-290 |
| Kulvinder Singh | Novel Mechanism to Predict and Detect nCOVID-19 Using Deep Learning with | Soft Computing for Intelligent Systems, 375-384 |

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| | Convolutional Neural Networks: An Holistic Approach | |
| Kulvinder Singh | Mobile Radio Communications and 5G Networks | Lecture Notes in Networks and Systems |
| Kulvinder Singh | Deep Learning in Health Care: Automatic Cervix Image Classification Using Convolutional Neural Network | Mobile Radio Communications and 5G Networks, 145-151 |
| Kulvinder Singh | Community discovery and behavior prediction in online social networks employing node centrality | Mobile Radio Communications and 5G Networks, 73-85 |
| Kulvinder Singh | Analysis on Detection of Shilling Attack in Recommendation System | Mobile Radio Communications and 5G Networks, 117-128 |
| Kulvinder Singh | Deformation in Generalized Transversely Isotropic Magneto-Thermoelastic Rotating Solid Due to Inclined Load and Thermal Laser Pulse | Mobile Radio Communications and 5G Networks, 553-573 |
| Kulvinder Singh | Reflection of Plane Harmonic Wave in Transversely Isotropic Magneto-thermoelastic with Two Temperature, Rotation and Multi-dual-Phase Lag Heat Transfer | Mobile Radio Communications and 5G Networks, 521-551 |
| Kulvinder Singh | Study of transversely isotropic nonlocal thermoelastic thin nano-beam resonators with multi-dual-phase-lag theory | Archive of Applied Mechanics 91 (1), 317-341 |
| Kulvinder Singh | Reflection and refraction of plane wave in piezo-thermoelastic diffusive half spaces with three phase lag memory dependent derivative and two-temperature | Waves in Random and Complex Media, 1-34 |

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| Kulvinder Singh | Memory-dependent derivative approach on magneto-thermoelastic transversely isotropic medium with two temperatures | International Journal of Mechanical and Materials Engineering 15 (1), 1-13 |
| Kulvinder Singh | Effect of memory dependent derivative on forced transverse vibrations in transversely isotropic thermoelastic cantilever nano-Beam with two temperatures | Applied Mathematical Modelling 88, 83-105 |
| Kulvinder Singh | Cryptocurrency and Blockchain | Information Security and Optimization, 143-158 |
| Kulvinder Singh | Thermomechanical interactions due to time harmonic sources in a transversely isotropic magneto thermoelastic rotating solids in lord Shulman model. | Materials Physics & Mechanics 46 (1) |
| Kulvinder Singh | Forced Flexural Vibrations in a Thin Nonlocal Rectangular Plate with Kirchhoff's Thin Plate Theory | International Journal of Structural Stability and Dynamics 20 (09), 2050107 |
| Kulvinder Singh | Defining and Evaluating Network Communities Based on Ground-Truth in Online Social Networks | The International Conference on Recent Innovations in Computing, 151-163 |
| Kulvinder Singh | Effect of Hall current in transversely isotropic magneto-thermoelastic rotating medium with fractional-order generalized heat transfer due to ramp-type heat | Indian Journal of Physics |
| Kulvinder Singh | Mobile Radio Communications and 5G Networks: Proceedings of MRCN 2020 | Springer Nature |
| Kulvinder Singh | Effects of Memory Dependent Derivative of Bio-heat Model in Skin Tissue exposed to Laser Radiation | EAI Endorsed Transactions on Pervasive Health and Technology 6 (22) |

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| Kulvinder Singh | Reflection of plane harmonic wave in rotating media with fractional order heat transfer | Advances in materials Research 9 (4), 289-309 |
| Kulvinder Singh | Data Driven Prognosis of Cervical Cancer Using Class Balancing and Machine Learning Techniques | EAI Endorsed Transactions on Energy Web 7 (30), e2 |
| Kulvinder Singh | Effect of thermal laser pulse in transversely isotropic Magneto-thermoelastic solid due to Time-Harmonic sources | Coupled systems mechanics 9 (4), 343-358 |
| Kulvinder Singh | Deformation in transversely isotropic thermoelastic thin circular plate due to multi-dual-phase-lag heat transfer and time-harmonic sources | Arab Journal of Basic and Applied Sciences 27 (1), 259-269 |
| Kulvinder Singh | Transversely isotropic thin circular plate with multi-dual-phase lag heat transfer | Steel and Composite Structures 35 (3), 343-351 |
| Kulvinder Singh | Propagation of plane wave in transversely isotropic magneto-thermoelastic material with multi-dual-phase lag and two temperatures | Coupled systems mechanics 9 (5), 411-432 |
| ChanderDiwaker | Effectiveness of Big Data in Early Prediction and Measure for COVID-19 Using Data Science | NA |
| ChanderDiwaker | Artificial Intelligence in Higher Education and Learning | NA |
| Monish Gupta | Fabrication of serpentine and I structured graphene-CNT based highly sensitive and flexible strain sensors | Microelectronic Engineering |
| Vijay Kumar Garg | Optimum Sizing and Economic Assessment of Hybrid Microgrid for Domestic Load Under Various Scenario | International Journal of Renewable Energy Research (IJRER) |
| Vijay Kumar Garg | Short term load forecasting through heat | Sustainable Energy Technologies |

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| | index biasing approach for smart grid sustainability | and Assessments |
| Puneet Bansal | Reflection and transmission at the interface of an elastic and two-temperature generalized thermoelastic half-space with fractional order derivative | Materials Physics & Mechanics |
| Poonam Rani | Linear Scalable Routing Protocol for Wireless Sensor Network | IOP Publishing , 2021 |
| Poonam Rani | Energy Efficient Scalable Data Routing Protocol for Hetrogeneous Clustered WSN | |
| ParinamAnuradha | Preference selection of brake friction composite using entropy-VIKOR technique | Materials Today: Proceedings |
| ParinamAnuradha | Assessment of Optimum Automotive Brake Friction Formula by Entropy-VIKOR Technique | Multi-Criteria Decision Modelling |
| ParinamAnuradha | Evaporatively Cooled Window Air Conditioner in a Hot and Dry Climate—An Experimental Analysis | Latest Trends in Renewable Energy Technologies |
| ParinamAnuradha | Performance analysis of different U-shaped heat exchangers in parabolic trough solar collector for air heating applications | Case Studies in Thermal Engineering |
| ParinamAnuradha | Experimental investigation on performance and emission characteristics of diesel engine using dual biodiesel blends (mango + rapeseed oil) | Vidyabharati International Interdisciplinary Research Journal |
| Vishal Ahlawat | Performance analysis of different U-shaped heat exchangers in parabolic trough solar collector for air heating applications | Case Studies in Thermal Engineering |
| Vishal Ahlawat | Potential of White Ark Shell Powder in Automotive Brake Friction Composites | |
| Sunil Nain | Performance analysis of different U-shaped | Case Studies in Thermal Engineering |

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| | heat exchangers in parabolic trough solar collector for air heating applications | |
| Sunil Nain | Experimental study and analysis of solar based winter air conditioning system using desiccant coated heat exchanger | Materials Today: Proceedings |
| Sunil Nain | Evolution and Advancements in Solar Drying Technologies: A Review | Latest Trends in Renewable Energy Technologies |
| Sunil Nain | Assessment of Optimum Automotive Brake Friction Formula by Entropy-VIKOR Technique | Multi-Criteria Decision Modelling |
| Rahul Gupta | Modified Local Binary Pattern Algorithm for Feature Dimensionality Reduction | Recent Advances in Computer Science and Communications |
| Shikha Bhardwaj | An efficient comparison of two indexing-based deep learning models for the formation of a web-application based IoT-cloud network | Journal of Ambient Intelligence and Humanized Computing |
| Nikhil Marriwala | “Reliable and Energy-Efficient Data Transfer Routing in Wireless Body Area Networks”, published in Mobile Radio Communications and 5G Networks, | Lecture Notes in Networks and systems, Editors: N. Marriwala et al. (Eds.), Series Volume-140, eBook ISBN 978-981-15-7130-5, DOI 10.1007/978-981-15-7130-5, Softcover ISBN-978-981-15-7129-9, Series ISSN-2367-3370, Edition Number-1, Publisher Springer Singapore, pp- 757-769, July-2020. |
| Nikhil Marriwala | Ayodeji Olalekan Salau, Nikhil Marriwala, Muzhgan Athae, “Data Security in Wireless Sensor Networks: Attacks and Countermeasures”, | published in Mobile Radio Communications and 5G Networks, Lecture Notes in Networks and systems, Editors: N. Marriwala et al. (Eds.), Series Volume-140, eBook ISBN 978-981-15-7130-5, DOI 10.1007/978-981-15-7130-5, Softcover ISBN-978-981-15-7129-9, |

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| | | Series ISSN-2367-3370, Edition Number-1, Publisher Springer Singapore, pp- 173-186, July-2020. |
| Nikhil Marriwala | Book on Mobile Radio Communications and 5G Networks, | Lecture Notes in Networks and systems Editors: N. Marriwala et al. (Eds.), Series Volume-140, eBook ISBN 978-981-15-7130-5, DOI 10.1007/978-981-15-7130-5, Softcover ISBN-978-981-15-7129-9, Series ISSN-2367-3370, Edition Number-1, Publisher Springer Singapore, July-2020. |
| Ajay jangra | A. Jangra and H. Dubran, "Assessment of Load Balancing Techniques in Cloud Computing | ," 2021 6th International Conference on Signal Processing, Computing and Control (ISPCC), 2021, pp. 795-798, doi: 10.1109/ISPCC53510.2021.9609377. |
| Ajay Jangra | "Classification of Various Scheduling Approaches for Resource Management System in Cloud Computing" | EAI/Sprin EAI/Springer Innovations in Communication and Computing , 2021, pp. 149–157.ger |
| Ajay Jangra | A. "Assessment of microgrid communication network performance for medium-scale ieee bus systems using multi-agent system" | Lecture Notes in Networks and Systems, 2021, 140, pp. 377–387re |
| Ajay Jangra | N. "Cloud load balancing using optimization techniques" | springer Lecture Notes in Networks and Systems, 2021, 140, pp. 735–744 |
| Shikha Bhardwaj | A Framework of a Filtering and Classification Techniques for Enhancing the Accuracy of a Hybrid CBIR System" in Proc. of Lect. Notes in Networks, Syst., Vol. 339, 2021. | Mobile Radio Communications and 5G Networks |
| N Marriwala | Mobile Radio Communications and 5G | Springer Nature |

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| | Networks: Proceedings of MRCN 2020 | |
| N Marriwala | Mobile Radio Communications and 5G Networks | Lecture Notes in Networks and Systems |
| S Dhawan | Community discovery and behavior prediction in online social networks employing node centrality | Mobile Radio Communications and 5G Networks, 73-85 |
| S Dhawan | Defining and Evaluating Network Communities Based on Ground-Truth in Online Social Networks | The International Conference on Recent Innovations in Computing, 151-163 |
| S Dhawan | Data Driven Prognosis of Cervical Cancer Using Class Balancing and Machine Learning Techniques | EAI Endorsed Transactions on Energy Web 7 (30), e2 |
| S Dhawan | Analysis on Detection of Shilling Attack in Recommendation System | Mobile Radio Communications and 5G Networks, 117-128 |

Lectures/seminars/conferences/congresses etc. arranged in department (except refresher/orientation course)

Workshop cum Lecture series on “Logical series” organized on 18-23rd, Feb 2021. National level workshop of 50 hours (online) Future skill training program on “Emerging Technology IOT (internet of things) as per NPIU, MHRD on 20th Feb – 15th March, 2021. Lecture Series on “Quantitative aptitude” on 24th Feb- 10th March,2021. Faculty Development Program on “Opportunities and challenges in different sectors of Biotechnology post pandemic” from 8th to 12th March, 2021. Lecture Series on “Reading Comprehension, Interview training and English grammar & Vocabulary” from 11th to 14th March, 2021. Springer International Conference on “Emergent Converging Technologies and Biomedical Systems, (ETBS-2021)” organized on 28th-29th April, 2021. Springer 3rd International Conference on “Mobile Radio Communications & 5G Networks, (MRCN-2021)” organized on 23rd-24th June, 2021. Seminar on “How to make a Product Fit for Market” on 28th July, 2021.

Lectures/seminars/conferences/congresses/workshops/symposia etc. by the faculty of the department/ teachers outside the department

| Name of the teacher | Name of conference /seminar | Place and date of the conference/ seminar | Topic of the lecture |
|----------------------------|--|---|---|
| Dr. ParinamAnuradha | Webinar | Vikrant Group of Institutions, Gwalior, 14th May, 2021 | Scientific Research & Publication |
| Sanjay Kajal | Importance of Entrepreneurial Ecosystem for Aatam-nirbhar Bharat | Government College of Engineering and Technology Jammu and 13 August 2021 (Online) | Workshop on Prototype/Process Design and Development- Prototyping |
| LalitNagpal | Nil | Nil | Nil |
| Sanjay Kajal | Two-week Induction Program | Government College of Engineering and Technology Jammu and December 17, 2021 (Online) | Promotion of Start Up Activities in Institutes |
| ChanderDiwaker | 6th International Conference on Signal Processing, Computing and Control (ISPCC) | Jaypee University of Information Technology, Waknaghat 7-9 October 2021 | Future aspects on MEC (Mobile Edge Computing): Offloading Mechanism |
| ChanderDiwaker | 6th International Conference on Signal Processing, Computing and Control (ISPCC) | Jaypee University of Information Technology, Waknaghat 7-9 October 2021 | An Image Processing Techniques For Pattern Detection In Covid-19 |
| Dr. Nikhil Marriwala | Delivered expert talk on "Cloud Based Real- Time Internet of Things Design using LabVIEW", in AICTE Sponsored Short Term Training Programme on "Deep Learning for Computer Vision Medical Applications" on 26th March 2021 | Department of Computer Science and Engineering, Narasaraopeta Engineering College (AUTONOMOUS), Narasaraopet, Guntur Dist, A.P. | "Cloud Based Real-Time Internet of Things Design using LabVIEW", |

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| | (Session-3) organized by Department of Computer Science and Engineering, Narasaraopeta Engineering College (AUTONOMOUS), Narasaraopet, Guntur Dist, A.P. from 22-03-2021 to 27-03-2021. | | |
| Nikhil Marriwala | Delivered expert talk on “Fuzzy System Designer using AI and Machine Learning”, in AICTE ATAL sponsored STTP on “Recent Advancements in Artificial Intelligence & Machine Learning”, dated 24th March 2021, from 12:00 PM – 1:30 PM, Organized by Department of Computer Engineering & Department of Computer Applications, J. C. Bose University of Science & Technology, YMCA, Faridabad from 22nd -27th March 2021. | J. C. Bose University of Science & Technology, YMCA, Faridabad | Fuzzy System Designer using AI and Machine Learning |
| Nikhil Marriwala | Delivered expert talk on “Fuzzy System Designer and Machine Learning using Labview”, in AICTE ATAL sponsored STTP on “Design of Soft computing Based Machine Learning Models” Phase-I, dated 30th April 2021, from 02:00 PM – 04:00 | Panipat Institute of Engineering and Technology, Samalkha, Panipat, Haryana | Fuzzy System Designer and Machine Learning using Labview |

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| | PM, Organized by Panipat Institute of Engineering and Technology, Samalkha, Panipat, Haryana from 26th April, 2021 - 01st May 2021. | | |
| Nikhil Marriwala | Delivered expert talk on "Problem Based Learning", in one week online Faculty Development program on the topic "Advanced Teaching Tools & Methodology for Outcome Based Education" dated 20th May 2021, from 03:00 PM – 04:00 PM, organized by Gulzar Group of Institutions (GGI), Khanna, Ludhiana, Punjab in collaboration with ISTE & IEI on the topic from 18th May 2021 to 22nd May, 2021. | Problem Based Learning | Gulzar Group of Institutions (GGI) in collaboration with ISTE & IEI |
| Nikhil Marriwala | Delivered expert talk on "EMERGING TRENDS IN INTERNET OF THINGS", dated 07/06/2021 in AICTE ATAL sponsored Faculty Development program on IOT for Emerging Technical Applications from 07 June 2021 to 11 June 2021 at Acropolis Institute of Technology and Research, Indore, Madhya Pradesh, with No: ATAL/2021/1628233143. | Acropolis Institute of Technology and Research, Indore, Madhya Pradesh | Emerging trends in internet of things |

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| Nikhil Marriwala | Delivered an expert lecture on Modeling of various AR/VR applications using UNITY 3D in the AICTE-ATAL sponsored 5 days Online Faculty Development Programme on “Role of Augmented reality (AR) & Virtual Reality (VR) in Real Time Applications, held from 07 June 2021 to 11 June 2021 at Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore on 10 June 2021, No: ATAL/2021/1628499075. | Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore | Modeling of various AR/VR applications using UNITY 3D |
| Nikhil Marriwala | Delivered an expert lecture on “IoT based Fuzzy system Designer using LabVIEW”, in AICTE Training and Learning (ATAL) Online FDP on “Engineering Optimization Techniques and its Applications (ENOTAA-2021)” from 14 June, 2021 to 18 June, 2021, at Govt. College of Engineering Aurangabad, dated 17-6-2021. | Govt. College of Engineering Aurangabad, dated 17-6-2021. | IoT based Fuzzy system Designer using LabVIEW |
| Nikhil Marriwala | Delivered an expert lecture on “Ways to Increase | Department of Computer Science and Engineering, | Ways to Increase Visibility of Your |

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| | <p>Visibility of Your Research”, Jhulelal Institute of Research in One Week Online Faculty Technology, Nagpur, Development Program from 15th June 2021 to 20th June 2021 On Intellectual Property Rights and Research Paper Writing organized by Department of Computer Science and Engineering, Jhulelal Institute of Technology, Nagpur, in association with ISTE and Institution Innovation council.</p> | |
| Nikhil Marriwala | <p>Deliver a guest webinar on the topic “Hyperledger Fabric Blockchains”, dated 1st June 2021 organized by School of Computer Engineering & Technology, MIT World Peace University Pune, Maharashtra</p> | <p>School of Computer Engineering & Technology, MIT World Peace University Pune, Maharashtra</p> <p>Hyperledger Fabric Blockchains</p> |
| Nikhil Marriwala | <p>Delivered an expert lecture on “Hands-on approach in designing an Artificially Intelligent Fuzzy controller for Greenhouse”, in the AICTE-ATAL sponsored 5 days Online Faculty Development Programme on “Artificial Intelligence (AI) Applications of AI in Research and Development”, held from 05th July 2021 to 09 July 2021 organized by</p> | <p>Advanced Materials & Processes Research Institute (AMPRI), Council of Scientific and Industrial Research (CSIR), Ministry of Science and Technology, Govt. of India Bhopal-462026, Madhya - Pradesh, dated 05th July 2021.</p> <p>Hands-on approach in designing an Artificially Intelligent Fuzzy controller for Greenhouse</p> |

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| | Advanced Materials & Processes Research Institute(AMPRI), Council of Scientific and Industrial Research (CSIR), Ministry of Science and Technology, Govt. of India Bhopal-462026, Madhya - Pradesh, dated 05th July 2021. | | |
| Nikhil Marriwala | Delivered an Expert Lecture on “Hands on Practice Temperature and Humidity sensors for Greenhouse”, dated 9th July 2021 in AICTE-ATAL sponsored 5 days Online Faculty Development Programme on Electret Applications in Sensors, Microelectronics and Actuators organized by Department of Applied Physics & Optoelectronics Shri G. S. Institute of Technology and Science, Indore (MP) from 05th July - 9th July 2021. | Department of Applied Physics & Optoelectronics Shri G. S. Institute of Technology and Science, Indore (MP) | Hands on Practice Temperature and Humidity sensors for Greenhouse |
| Nikhil Marriwala | Delivered an Expert Lecture on “Digital and Data Forensics, Protocols and Data Monitoring”, dated 16th July 2021 in AICTE-ATAL sponsored 5 days Online Faculty Development Programme on CYBER | Department of Computer Sciences, University of Kashmir | Digital and Data Forensics, Protocols and Data Monitoring |

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| | SECURITY, ETHICAL HACKING & CYBER CRIME, organized by Department of Computer Sciences, University of Kashmir from 12th July – 16th July 2021. | | |
| Nikhil Marriwala | Delivered an Expert Lecture on “Locational Analytics, Spatial Decision-Making and Big Data: Research and Teaching”, dated 29 July 2021 at one-week AICTE sponsored online STTP on Emerging Research Areas in Big Data Computing” organized by Department of Computer Engineering, J C Bose University of Science and Technology, YMCA, Faridabad from 26th July 31st July, 2021. | Department of Computer Engineering, J C Bose University of Science and Technology, YMCA, Faridabad | Locational Analytics, Spatial Decision-Making and Big Data: Research and Teaching |
| Dr. Deepak Sood | ATAL Sponsored FDP on Modern Antenna Technologies for Futuristic Wireless Communication Systems | 20/08/2021 to 24/08/2021 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana-125001. | Performance Enhancement of MIMO Antennas using Frequency Selective Surfaces |
| Dr. Deepak Sood | ATAL Sponsored online FDP on "Sensors Technology" | K.S.R College of Engineering, Tiruchengode, Namakkal (Dt.), Tamilnadu. (4th Oct., 2021) | Design, Fabrication & Characterization of RFID SENSORS for Surveillance Applications |

Noteworthy achievements

1. Kurukshetra Community Incubation Centre is an incubation centre at UIET, KUK has been established with a financial aid of Rs. 30 Lac from DITECH, Haryana.
2. Established Robotics and 3D printing lab purchasing a 5 axis Robotic arm and 3D printer.
3. Department has 2 number of patents to its credit, one published and other filed status.
4. Signed MoU with Siemens Centre of Excellence, NIT Kurukshetra, CDAC Noida.
5. Signed MoU with CYPE Software Spanish Company, ESCI Hyderabad.
6. Signed MoU with Microsoft Ltd. under the category of Tools and Training.
7. Signed MoU with HPU, Himachal for Joint R & D and training of students.
8. Signed MoU with IBM, Gurugram for training and placement of students.
9. Arranged a study tour of ATAL Tunnel under the AICTE Youth Undertaking Visit for Acquiring Knowledge (Yuval) Scheme completely sponsored by AICTE.
10. Prof. C.C. Tripathi Chaired Session in Indian Conference on Antennas and Propagation, 13-16 December 2021 organized by Malaviya National Institute of Technology, Jaipur
11. Dr. Parinam Anuradha Delivered an expert talk on Scientific Research & Publication in Vikrant Group of Institutions, Gwalior.
12. Patent Detail: A complete low-cost disinfectant economical laundry system, Application No. 202011034396, India, Yogesh Paul, Vineet Kumar, Bhupender, Vijay Kumar Garg, Archit Sharma. Filing Date: 11/08/2020, Publication Date: 11/09/2020.
13. Patent Detail: Optical Light assisted micro gridline bed for manual screen-printing system to achieve better register, Application no. TEMP/E-1/19762/2020-DEL, India, Dr. C.C. Tripathi.
14. Patent Detail: Grinding media separation system for ink and other formulations processed through bead milling, Application no. TEMP/E-1/19419/2020-DEL, India Dr. C.C. Tripathi.
15. Patent Detail: Compression with annealing system for printed film conductivity enhancement, Application no.-TEMP/E-1/19421/2020-DEL India, Dr. C.C. Tripathi.
16. Patent Detail: System and Method for Automated Detection of Digital Modulation Technique Application No. 202011020506, India Dr. Nikhil Marriwala Publication Date: 14/08/2020.
17. Patent Detail: Multi-Screen Portable device for display, Application No. 201911014514, India, Puneet Bansal. (Journal No. 42/2020), Filing Date: 16/10/2020.
18. Patent Detail: Systems and Methods for medical cloud classification for IOT aware smart healthcare, Application No. 202011050522 A (Journal No. 49/2020), India, Priyanka Jangra, Filing Date: 20/11/2020, Publication Date: 4/12/2020.
19. Patent Detail: Octa-Senso Medical Cloud Data Classification Model for IoT Aware Smart Healthcare Application No. 202011054565 A, India, Priyanka Jangra, (Journal No. 01/2021), Filing Date: 15/12/2020, Publication Date: 01/01/2021

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- 21.** Patent Detail: System and Method for Fuzzy-Based Control and Measurement of Temperature and Humidity for Greenhouse, Patent Number 2021100311, IP Australia Batch Reference SPBI-0002456363, Australia, Dr. Nikhil Marriwala, Filling Date: 19/01/2021, Publication Date: 31/03/2021.
- 22.** Patent Detail: Adaptive clustering Based Energy Efficient System for Intelligent Routing in Wireless Sensor Networks Patent Number 2021101073, IP Australia Batch Reference SPBI-0002492381, Australia, Dr. Nikhil Marriwala, Filling Date: 27/02/2021, Publication Date: 14/04/2021
- 23.** Patent Detail: A System for Data Transfer Routing in Wireless Body Area Network and a Method Thereof Patent Number 2021101447, IP Australia Batch Reference SPBI-0002511766, Australia, Dr. Nikhil Marriwala, Filling Date: 21/03/2021, Publication Date: 28/04/2021.
- 24.** Patent Detail: Method and System for real-time decision-based carrier tracking for software defined radios, Patent Number 2021102150, IP Australia Batch Reference SPBI-0002539839, Australia, Dr. Nikhil Marriwala, Filling Date: 22/04/2021, Publication Date: 26/05/2021.
- 25.** Patent Detail: Solar System for Controlling the Moisture in Fruits, Vegetables, Seeds Patent Number 202111010011, India, Dr. Sunil Nain, Filling Date: 10/03/2021, Publication Date: 19/04/2021.