



## MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA



### Paper Publications

The faculties who have published papers in various International Journals during the academic year 2023-2024 are listed below:

| S. No.                       | Name of the Authors  | Title of the paper  | Name of Journals/ Book                        | Month/ Year | Vol. No./ Issue No./ Page No. | DOI/ISSN  | Publisher      | Indexing   |
|------------------------------|--|---|---|-------------|-------------------------------|---|----------------|------------|
| <b>July 2023 – June 2024</b> |  |   |   |             |                               |   |                |            |
| <b>Journals</b>              |  |   |   |             |                               |   |                |            |
| 1.                           | Ezhumalai Aravindraj, Ganesan Nagarajan, Palaniappan Ramanathan                                    | Koch Snowflake Fractal Embedded Octagonal Patch Antenna with Hexagonal Split Ring for Ultra-Wide Band and 5G Applications | Progress in Electromagnetics Research C       | Jul-23      | 135 (95-106)                  | <a href="http://dx.doi.org/10.2528/PIERC23050702">http://dx.doi.org/10.2528/PIERC23050702</a>     | EMW Publishing | Scopus     |
| 2.                           | Rakesh N. Tiwari; Deepti Sharma; Prabhakar Singh; Vikrant Kaim; Taimoor Khan; Binod Kumar Kanaujia | Design and Validation of Loop-Based Ultraminiature Low-Profile Ultrawideband Capsule Antenna Inside Wistar Rat            | IEEE Transactions on Antennas and Propagation | Aug-23      | 71(10) (8326 - 8331)          | <a href="https://doi.org/10.1109/TAP.2023.3301952">https://doi.org/10.1109/TAP.2023.3301952</a>   | IEEE           | SCIE & WoS |
| 3.                           | Deepti Sharma; Rakesh N. Tiwari; Binod Kumar Kanaujia; Sachin Kumar; Karumudi                      | Dual-Band MIMO Antenna Data Telemetry for Dual-Chamber Leadless Cardiac Pacing on Internet of Things                      | IEEE Internet of Things Journal               | Oct-23      | 11(5) (9072-9085)             | <a href="https://doi.org/10.1109/JIOT.2023.3321903">https://doi.org/10.1109/JIOT.2023.3321903</a> | IEEE           | SCIE & WoS |

| S. No. | Name of the Authors   | Title of the paper   | Name of Journals/ Book  | Month/ Year | Vol. No./ Issue No./ Page No. | DOI/ISSN  | Publisher                                 | Indexing      |
|--------|---|--|---|-------------|-------------------------------|---|---|---------------|
|        | Rambabu   | Environment  |   |             |                               |   |   |               |
| 4.     | Rakesh N. Tiwari ,<br>Ragannagari<br>Thirumalaiah ,<br>Vykuntam Rakesh<br>Naidu, Golla<br>Sreenivasulu,<br>Prabhakar Singh, S.<br>Rajasekaran | Compact dual band 4-<br>port MIMO antenna for<br>5G-sub<br>6 GHz/N38/N41/N90<br>and WLAN frequency<br>bands    | AEU -<br>International<br>Journal of<br>Electronics and<br>Communications | Nov-23      | 171<br>154919                 | <a href="https://doi.org/10.1016/j.aeue.2023.154919">https://doi.org/10.1016/j.aeue.2023.154919</a>   | Elsevier                                  | SCIE &<br>WoS |
| 5.     | Preeti Sharma,<br>Rakesh N Tiwari<br>and Prabhakar<br>Singh   | Circumferential slots<br>based decoupled<br>wideband MIMO<br>antenna for 5G and<br>sub-6 GHz applications      | IOP Science -<br>Physica Scripta  | May-24      | 99(6)<br>065012               | <a href="http://dx.doi.org/10.1088/1402-4896/ad43c9">http://dx.doi.org/10.1088/1402-4896/ad43c9</a>   | IOP<br>Science                            | SCIE &<br>WoS |
| 6.     | Rakesh Nath<br>Tiwari; Deepti<br>Sharma; Prabhakar<br>Singh; Pradeep<br>Kumar   | Design of Dual-Band<br>4-Port Flexible MIMO<br>Antenna for mm-Wave<br>Technologies and<br>Wearable Electronics | IEEE Access   | Jun-24      | 12<br>(96649-<br>96659)       | <a href="https://doi.org/10.1109/ACCESS.2024.3412712">https://doi.org/10.1109/ACCESS.2024.3412712</a> | IEEE                                      | SCIE &<br>WoS |
| 7.     | Rakesh N. Tiwari,<br>Deepti Sharma,<br>Prabhakar Singh &<br>Pradeep Kumar   | A flexible dual-band<br>4 × 4 MIMO antenna<br>for 5G mm-wave<br>28/38 GHz wearable<br>applications             | Scientific<br>Reports<br>(Springer)                                       | Jun-24      | 14<br>14324                   | <a href="https://doi.org/10.1038/s41598-024-65023-2">https://doi.org/10.1038/s41598-024-65023-2</a>   | Springer                                  | SCIE &<br>WoS |
| 8.     | Deepti Sharma,<br>Sachin Kumar,<br>Rakesh Nath<br>Tiwari, Hyun Chul<br>Choi & Kang Wook<br>Kim  | On body and off body<br>communication using a<br>compact wideband and<br>high gain wearable<br>textile antenna | Scientific<br>Reports<br>(Springer)                                       | Jun-24      | 14<br>14493                   | <a href="https://doi.org/10.1038/s41598-024-64932-6">https://doi.org/10.1038/s41598-024-64932-6</a>   | Springer                                  | SCIE &<br>WoS |
| 9.     | R. Kishore Kanna,<br>R. Ravindraiah, C.<br>Priya, R.<br>Gomalavalli, and N.<br>Muralikrishna  | Clinical Application of<br>Neural Network for<br>Cancer Detection<br>Application                               | EAI Endorsed<br>Transactions on<br>Pervasive Health<br>and Technology     | Mar-24      | 10                            | <a href="https://doi.org/10.4108/eetpht.10.5454">https://doi.org/10.4108/eetpht.10.5454</a>           | European<br>Alliance<br>for<br>Innovation | Scopus        |

| S. No. | Name of the Authors   | Title of the paper   | Name of Journals/ Book   | Month/ Year | Vol. No./ Issue No./ Page No. | DOI/ISSN  | Publisher                       | Indexing   |
|--------|---|--|--|-------------|-------------------------------|---|---------------------------------|------------|
| 10.    | Bindu, G. B. H. ., Ramani, K. ., Hemantha, G. R. ., Pushpalatha, N. ., Suneetha, I. ., Harish, P. ., & Manju, A | An Optimized Resource Allocation Model for Cloud Computing Using Ant Colony-based Auction Method   | International Journal of Intelligent Systems and Applications in Engineering | Jul-23      | 11(3) (818–824)               | <a href="https://ijisae.org/index.php/IJISAE/article/view/3288">https://ijisae.org/index.php/IJISAE/article/view/3288</a>             | Budapest Open Access Initiative | Scopus     |
| 11.    | Janmoni Borah, Smriti Baruah, Saranya Rayasam, Sarath Chandrika Rayapati, S. Pavan Kumar Reddy                  | Network coverage with KUD-based SC deployment for next-generation 5G cellular network  | Radioelectronics and Communications Systems                                  | Apr-24      | xx                            | <a href="https://radioelektronika.org/article/view/S0735272723100047">https://radioelektronika.org/article/view/S0735272723100047</a> | Allerton Press Inc              | Scopus     |
| 12.    | Janmoni Borah, Smriti Baruah, Ganjiguntla Bhargavi, Palagiri Durgaprasad & Boya Damodar                         | Transmit Antenna Selection for Achieving Energy Efficiency in Massive MIMO Based 5G Cellular Network   | Radioelectronics and Communications Systems                                  | Apr-24      | 66 (85–94)                    | <a href="https://doi.org/10.3103/S0735272723020048">https://doi.org/10.3103/S0735272723020048</a>                                     | Springer                        | Scopus     |
| 13.    | Rajalakshmi, K.a; Priyan, S. Vishnub, Inbakumar, J. Parivendhana, Kumar, C                                      | Enhancing efficiency in electrical distribution systems: A novel approach via modified genetic optimization algorithm for loss reduction in optimal network distribution | Journal of Intelligent & Fuzzy Systems                                       | Feb-24      | 46(2) (3577 – 3591)           | <a href="https://doi.org/10.3233/JIFS-233917">https://doi.org/10.3233/JIFS-233917</a>   | IOS Press Content Library       | SCIE & WoS |
| 14.    | Smriti Baruah, Janmoni Borah, Sagar Bhattacharai, Santanu Maity   | Optimization of all inorganic perovskite solar cell with dual active layers for beyond 29% efficiency  | Solar Energy (Science Direct)  | Oct-23      | 263 111939                    | <a href="https://doi.org/10.1016/j.solener.2023.111939">https://doi.org/10.1016/j.solener.2023.111939</a>                             | Elsevier                        | SCIE & WoS |
| 15.    | K. Monower Hossain, M. H. Kabir Rubel, M.   | Hydrothermal Synthesis, Phase Analysis, and  | ACS Omega  | Feb-24      | 9(8) (9147–9160)              | <a href="https://doi.org/10.1021/acsomega.3c08072">https://doi.org/10.1021/acsomega.3c08072</a>                                       | ACS Publications                | SCIE & WoS |

| S. No. | Name of the Authors   | Title of the paper  | Name of Journals/ Book                         | Month/ Year | Vol. No./ Issue No./ Page No. | DOI/ISSN  | Publisher      | Indexing   |
|--------|---|---|--|-------------|-------------------------------|---|----------------|------------|
|        | Khalid Hossain, G. F. Ishraque Toki, Latha Marasamy, Rajesh Haldhar, Md Hasan Ali, Smriti Baruah, Asma A. Alothman and Saikh Mohammad | Magneto-Electronic Characterizations of Lead-Free Ferroelectric BM2+(Zn, Ca, Mg)T–BFO System  |  |             |                               |   |                |            |
| 16.    | Smriti Baruah, Janmoni Borah, Santanu Maity, Subramaniam Rajasekaran  | Analytical investigation of CdSe/CdS/ZnSe-based single-core double-shell nanotextured vertical nanopillar array antenna for broadband photodetection applications | International Journal of Communication Systems | Mar-24      | 37(8) e5752                   | <a href="https://doi.org/10.1002/dac.5752">https://doi.org/10.1002/dac.5752</a>                         | Wiley          | SCIE & WoS |
| 17.    | S. Nagaraju , Nagendra, Shanmugha, Balasundaram, R. Kiran Kumar   | Biometric key generation and multi round AES crypto system for improved security  | Measurement: Sensors (ScienceDirect)           | Dec-23      | 30 100931                     | <a href="https://doi.org/10.1016/j.measen.2023.100931">https://doi.org/10.1016/j.measen.2023.100931</a> | Elsevier       | Scopus     |
| 18.    | Mohit Kumar Singh; Manpuran Mahto; Pradip Kumar Jain  | Simulation investigations of an efficient L-band bi-frequency MILO with ridged-disk-loaded interaction structure  | Physics of Plasmas (AIP Publishing)            | May-24      | 31(5) 052119                  | <a href="https://doi.org/10.1063/5.0200379">https://doi.org/10.1063/5.0200379</a>                       | AIP Publishing | SCIE & WoS |
| 19.    | Ezhumalai Aravindraj, Ganesan Nagarajan, Palaniappan Ramanathan   | A Compact Sierpinski Gasket Fractal Antenna for S, C, X, and Ku Band Applications   | Progress In Electromagnetics Research C        | Feb-24      | 141 (33-40)                   | <a href="http://dx.doi.org/10.2528/PIERC23110704">http://dx.doi.org/10.2528/PIERC23110704</a>           | EMW Publishing | Scopus     |
| 20.    | Maruthi Prasad, V,  | Creation of A Music   | International                                  | Feb-24      | 12(14)                        | <a href="https://ijisae.org/index">https://ijisae.org/index</a>   | European       | Scopus     |

| S. No. | Name of the Authors  | Title of the paper   | Name of Journals/ Book  | Month/ Year | Vol. No./ Issue No./ Page No. | DOI/ISSN  | Publisher                        | Indexing     |
|--------|--|--|---|-------------|-------------------------------|---|----------------------------------|--------------|
|        | Swetha, G. N, & Riyaz Ali  | Recommendation System using Facial Expression Recognition with MATLAB  | Journal of Intelligent Systems and Applications in Engineering                  |             | (320–327)                     | <a href="http://php/IJISAE/article/view/4668">php/IJISAE/article/view/4668</a>  | Alliance for Innovation          |              |
| 21.    | Polanki Swetha, Chukka Thulasi Krishna, Kuruva Vinith Kumar, T. Manivannan         | Modified Dual Tree Complex Wavelet Transform Algorithm with SDV Method For Image Compression and Decompression                                       | International Journal of Scientific Research in Science and Technology(IJRSRST) | Apr-24      | 11 (11) (1-8)                 | <a href="https://ijsrst.com/home/issue/view/article.php?id=IJRSRST241111104">https://ijsrst.com/home/issue/view/article.php?id=IJRSRST241111104</a> | Technoscience Academy            | UGC          |
| 22.    | Nirmaladevi, K., Kalpana, Y. B., Manivannan, T., Selvakumar, S. & Manikandan, S.   | Underground Mine Terrain Obstacle Detection based on Multi-Robot System with Swarm Intelligence  | International Journal of Intelligent Systems and Applications in Engineering    | Feb-24      | 12(15) (115–125)              | <a href="https://ijisae.org/index.php/IJISAE/article/view/4723">https://ijisae.org/index.php/IJISAE/article/view/4723</a>                           | European Alliance for Innovation | Scopus       |
| 23.    | Parveen Akhther A, A Mary Psonia, Prasanth V S                                     | Dynamic Key Generation and Distribution Comparison Using Machine Learning Integrated Node Authentication Routing Protocol For Improving QoS In VANET | Malaysian Journal of Computer Science   | Dec-23      | Special issue (13–28)         | <a href="https://doi.org/10.22452/mjcs.sp2023no1.2">https://doi.org/10.22452/mjcs.sp2023no1.2</a>   | University of Malaya             | WoS & Scopus |
| 24.    | Y Pradeep Kumar; Kolla Prashanth; Thatiredy Praneeth Reddy; Gundluru Puneeth Vinay | A Comprehensive Review on Enhancing Autonomous Transport with Federated Learning and Artificial Intelligence Integration                             | International Journal of Intelligent Systems and Applications in Engineering    | Jun-24      | (1-6)                         | <a href="https://doi.org/10.1109/ICSSSES62373.2024.10561317">https://doi.org/10.1109/ICSSSES62373.2024.10561317</a>                                 | IEEE                             | Scopus       |
| 25.    | Raja. G, M. ., G, A. ., Gomathy, G. .,   | Online Fraudulence Detection Based on  | International Journal of  | Feb-24      | 12(15) (97–105)               | <a href="https://ijisae.org/index.php/IJISAE/article/view/4668">https://ijisae.org/index.php/IJISAE/article/view/4668</a>                           | European Alliance                | Scopus       |

| S. No. | Name of the Authors  | Title of the paper  | Name of Journals/ Book  | Month/ Year | Vol. No./ Issue No./ Page No. | DOI/ISSN  | Publisher                                  | Indexing |
|--------|--|---|---|-------------|-------------------------------|---|--|----------|
|        | Kowsalya, P. & Salini, R.  | Decision Support System in Digital Banking  | Intelligent Systems and Applications in Engineering                                 |             |                               | <a href="#">w/4720</a>  | for Innovation                             |          |
| 26.    | Shanthi, T., Sheela, M. S., Jayakanth, J. J., Karpagam, M., Srividhya, G., & Prasad, | A Novel approach Secure Routing in Wireless Sensor Networks for Safe Path Establishment of Private IoT Data Transmission          | International Journal of Intelligent Systems and Applications in Engineering        | Jul-23      | 11(9)<br>(455–460)            | <a href="https://ijisae.org/index.php/IJISAE/article/view/3135">https://ijisae.org/index.php/IJISAE/article/view/3135</a> | European Alliance for Innovation           | Scopus   |
| 27.    | Suman Yadav; Gourav Kumar Suman; Ram Krishna Mehta                                   | Enhanced Thermodynamic Modeling of Converter Transformer Influenced by DC Bias  | IEEE Journal on Multiscale and Multiphysics Computational Techniques                | Nov-23      | 9<br>(36 - 48)                | <a href="https://doi.org/10.1109/JMMCT.2023.3334563">https://doi.org/10.1109/JMMCT.2023.3334563</a>                       | IEEE                                       | Scopus   |
| 28.    | Gourav Kumar Suman, Suman Yadav & Josep M. Guerrero                                  | A novel LF-TLBO-based optimisation scheme for islanding detection in microgrids   | Electrical Engineering (Springer)   | Jun-24      | 2024                          | <a href="https://doi.org/10.1007/s00202-024-02512-7">https://doi.org/10.1007/s00202-024-02512-7</a>                       | Springer                                   | Scopus   |
| 29.    | Babu. G, Sathiyarayanan, E., Parasuraman, S. & Jaganathan, A                         | Revolutionizing Human-Robot Interaction (HRI): Multimodal Intelligent Robotic System for Responsive Collaboration                 | International Journal of Intelligent Systems and Applications in Engineering        | Feb-24      | 12(15)<br>(47–54)             | <a href="https://ijisae.org/index.php/IJISAE/article/view/4713">https://ijisae.org/index.php/IJISAE/article/view/4713</a> | European Alliance for Innovation           | Scopus   |
| 30.    | Dinesh G, M A Berlin, P Deepa, G. Uma Gowri, B. Subbarayudu                          | Secure and Efficient Wireless Sensor Network and Machine Learning -based Monitoring System for Student Physical and Mental Health | Secure and Efficient Wireless Sensor Network and Machine Learning -based Monitoring | Mar-24      | 20(3)<br>(1-8)                | <a href="https://doi.org/10.52783/jes.1256">https://doi.org/10.52783/jes.1256</a>   | Engineering and Scientific Research Groups | Scopus   |

| S. No.               | Name of the Authors  | Title of the paper   | Name of Journals/ Book   | Month/ Year | Vol. No./ Issue No./ Page No. | DOI/ISSN  | Publisher                  | Indexing |
|----------------------|--|--|--|-------------|-------------------------------|---|----------------------------|----------|
|                      |  |  | System for Student Physical and Mental Health  |             |                               |   |                            |          |
| <b>Book Chapters</b> |  |  |  |             |                               |   |                            |          |
| 1.                   | Nagarjuna Telagam, D. Ajitha, Nehru Kandasamy, Ben Othman Soufiene                 | Face Mask Detection and Temperature Scanning for the COVID-19 Surveillance System Based on Deep Learning Models          | Taylor & Francis eBooks  | Oct-23      | 9.781E+12                     | <a href="http://dx.doi.org/10.1201/9781003366249-12">http://dx.doi.org/10.1201/9781003366249-12</a>   | Taylor & Francis           | Scopus   |
| 2.                   | Nagarjuna Telagam, Nehru Kandasamy, Kumar Raja, Tharuni Gelli, D. Ajitha           | Multiple Lung Disease Prediction Using X-Ray Images Based on Deep Convolutional Neural Networks                          | Taylor & Francis eBooks  | Oct-23      | 9.781E+12                     | <a href="http://dx.doi.org/10.1201/9781003366249-2">http://dx.doi.org/10.1201/9781003366249-2</a>   | Taylor & Francis           | Scopus   |
| 3.                   | Rakesh N. Tiwari, Prabhakar Singh & Partha Bir Barman                              | Triple-Band Gap Coupled 4 × 4 MIMO Antenna in mm-Wave for High Data Rate and IoT Applications                            | Lecture Notes in Electrical Engineering (Springer)                                   | Feb-24      | 1116 (499–509)                | <a href="https://doi.org/10.1007/978-981-99-8646-0_39">https://doi.org/10.1007/978-981-99-8646-0_39</a>   | Springer                   | Scopus   |
| 4.                   | K. Suneetha, Jabeen Sultana, Reddy Madhavi K., Gudavalli Madhavi, and Naga Jyothi. | A Simple and Effective Approach for Identification of Collaborative Concerns and Risks Under Distributed Version Control | Innovations in Computational Intelligence, Big Data Analytics and Internet of Things | Mar-24      | xx                            | <a href="https://www.infoagepub.com/products/Innovations-in-Computational-Intelligence-Big-Data-Analytics-and-Internet-of-Things">https://www.infoagepub.com/products/Innovations-in-Computational-Intelligence-Big-Data-Analytics-and-Internet-of-Things</a> | Information Age Publishing | Scopus   |
| <b>Conferences</b>   |  |  |  |             |                               |   |                            |          |
| 1.                   | J. Ashwani; K. Deepa; K. Charan Kumar; B. Karthick; Nehru Kandasamy                | Performance Analysis of Different SRAM Cells and Proposed 9T SRAM Cell   | IEEE 8th International Conference on Communication and Electronics                   | Aug-23      | (304-308)                     | <a href="https://doi.org/10.1109/ICCES57224.2023.10192668">https://doi.org/10.1109/ICCES57224.2023.10192668</a>   | IEEE                       | Scopus   |



| S. No. | Name of the Authors   | Title of the paper   | Name of Journals/ Book   | Month/ Year | Vol. No./ Issue No./ Page No. | DOI/ISSN  | Publisher | Indexing |
|--------|---|--|--|-------------|-------------------------------|---|-----------|----------|
|        |   |  | Systems  |             |                               |   |           |          |
| 2.     | K. Sathesh; P Kowsalya; E. Aravindraj; Sreesailam Phani Tej; Shaik Mahammed; Nandyala Manikanteswar Reddy | Integrated Smart Trolley System: Arduino Nano-Based RFID Billing and Weight Sensor Augmentation      | IEEE 10th International Conference on Communication and Signal Processing                                | Jun-24      | (958-963)                     | <a href="https://doi.org/10.1109/ICCSP60870.2024.10544371">https://doi.org/10.1109/ICCSP60870.2024.10544371</a>   | IEEE      | Scopus   |
| 3.     | K. Sathesh; P Kowsalya; E. Aravindraj; S.Guru Naveen Reddy; K. Anvith Sai Varma; P. Ganesh                | Clearer HeartBeats: Enhancement of cardiac sounds using Adaptive Filtering and Wavelet Decomposition | IEEE 10th International Conference on Communication and Signal Processing (ICCSP)                        | Jun-24      | (947-952)                     | <a href="https://doi.org/10.1109/ICCSP60870.2024.10543921">https://doi.org/10.1109/ICCSP60870.2024.10543921</a>   | IEEE      | Scopus   |
| 4.     | Preeti Sharma; Prabhakar Singh; Rakesh N. Tiwari; Pradeep Kumar   | High Isolation Dual Port MIMO Antenna for Vehicle-to-Vehicle Communication                           | IEEE 4th International Conference on Communications , Information, Electronic and Energy Systems (CIEES) | Jan-24      | (1-4)                         | <a href="https://doi.org/10.1109/CIEES58940.2023.10378779">https://doi.org/10.1109/CIEES58940.2023.10378779</a>   | IEEE      | Scopus   |
| 5.     | Rani Yadav; Piyush Moghe; Mukesh Patidar; Vivek Jain; Mayur Tembhorney; Praveen Kumar Patidar             | Performance Analysis of Side Lobe Reduction for Smart Antenna Systems Using Genetic Algorithms (GA)  | IEEE 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)       | Nov-23      | (1-5)                         | <a href="https://doi.org/10.1109/ICCCNT56998.2023.10306796">https://doi.org/10.1109/ICCCNT56998.2023.10306796</a> | IEEE      | Scopus   |
| 6.     | S. Nagaraju; G. Reddy Hemantha; Shanmu  | Switch Controlled State Skipping Based Memory Efficient Test   | IEEE Second International Conference on  | Feb-24      | (1-4)                         | <a href="https://doi.org/10.1109/ICACIC59454.2023.10435300">https://doi.org/10.1109/ICACIC59454.2023.10435300</a> | IEEE      | Scopus   |



| S. No. | Name of the Authors  | Title of the paper   | Name of Journals/ Book   | Month/ Year | Vol. No./ Issue No./ Page No. | DOI/ISSN  | Publisher | Indexing |
|--------|--|--|--|-------------|-------------------------------|---|-----------|----------|
|        | gham Balasundaram  | Pattern Generator for BIST Application                               | Advances in Computational Intelligence and Communication (ICACIC)                                |             |                               |   |           |          |
| 7.     | D. Shekar Goud; C Kumar; S. Devipriya; S. Dhanalakshmi; P.S. Latha Mageshwari; Anitha Mary M | Low Power Design Techniques for IoT Devices                          | IEEE Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM) | Jun-24      | (1-5)                         | <a href="https://doi.org/10.1109/ICONSTEM60960.2024.10568684">https://doi.org/10.1109/ICONSTEM60960.2024.10568684</a> | IEEE      | Scopus   |
| 8.     | Devashish, R. S. Kumar and S. Shameevulla  | Novel Fuzzy PID Control Tuning for a Chemical Process Control System | IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS) | Apr-24      | (1-5)                         | <a href="https://doi.org/10.1109/SCEECS61402.2024.10482346">https://doi.org/10.1109/SCEECS61402.2024.10482346</a>     | IEEE      | Scopus   |
| 9.     | Ajit Kumar; Nishant Sharan; Swapan Ghorai  | Experimental Demonstration of Hybrid PLC-VLC System                  | International Conference on Contemporary Computing and Communications (InC4)                     | Sep-23      | (1-5)                         | <a href="https://doi.org/10.1109/InC457730.2023.10263041">https://doi.org/10.1109/InC457730.2023.10263041</a>         | IEEE      | Scopus   |
| 10.    | Ajit Kumar; Nishant Sharan; Saswata Bose   | A Hybrid Combination of OMA and NOMA for Integrated VLC-RF System    | IEEE International Conference on Network, Multimedia and Information Technology                  | Oct-23      | (1-7)                         | <a href="https://doi.org/10.1109/NMITCON58196.2023.10276120">https://doi.org/10.1109/NMITCON58196.2023.10276120</a>   | IEEE      | Scopus   |

| S. No. | Name of the Authors  | Title of the paper   | Name of Journals/ Book  | Month/ Year | Vol. No./ Issue No./ Page No. | DOI/ISSN  | Publisher | Indexing |
|--------|--|--|---|-------------|-------------------------------|---|-----------|----------|
|        |  |  | (NMITCON)   |             |                               |   |           |          |
| 11.    | Manisha Bhumireddy; Manasa Surapu; Niveditha Cherukuri; K. Sathesh; P Kowsalya; E. Aravindraaj | Design and Implementation of Multi-Band Honeycomb Fractal Antenna for 5G Applications                        | IEEE 10th International Conference on Communication and Signal Processing (ICCSP) | Jun-24      | (1439-1444)                   | <a href="https://doi.org/10.1109/ICCSP60870.2024.10543430">https://doi.org/10.1109/ICCSP60870.2024.10543430</a> | IEEE      | Scopus   |
| 12.    | Thanuja Bai B; Tharun Kumar B; Tharun Raj Y; Mahammed Rafi G                                   | Image Forgery Detection using Block Matching and K-Means Clustering Techniques                               | IEEE 8th International Conference on Communication and Electronics Systems (ICES) | Aug-23      | (1750-1754)                   | <a href="https://doi.org/10.1109/ICES57224.2023.10192805">https://doi.org/10.1109/ICES57224.2023.10192805</a>   | IEEE      | Scopus   |
| 13.    | Bhanuprasad Eppe; K Muralikrishna; Joseph Sanam; P. Sudhakar; Subbarao Genikala                | A Power-Aware Algorithm for Mobile Devices Focused on Batteries  | 10th International Conference on Communication and Signal Processing (ICCSP)      | Jun-24      | (183-187)                     | <a href="https://doi.org/10.1109/ICCSP60870.2024.10544227">https://doi.org/10.1109/ICCSP60870.2024.10544227</a> | IEEE      | Scopus   |
| 14.    | V.S Prasanth; P. Likhitha; K. Rahul Chowdary; P. Manohar; A Parveen Akhther                    | A Novel Approach to Cloud Load Balancing Using Advanced Migration Operator                                   | IEEE 10th International Conference on Communication and Signal Processing (ICCSP) | Jun-24      | (1432-1438)                   | <a href="https://doi.org/10.1109/ICCSP60870.2024.10543229">https://doi.org/10.1109/ICCSP60870.2024.10543229</a> | IEEE      | Scopus   |
| 15.    | V. S. Prasanth, M. Munikumar, M. Ganesh, G. R. Kumar and A. Parveen Akhther                    | Chaotic Technique for High Information Security based on Dual-Hiding Asynchronous-Logic AES Accelerator with | IEEE 10th International Conference on Communication and Signal Processing         | Jun-24      | (1684-1689)                   | <a href="https://doi.org/10.1109/ICCSP60870.2024.10543679">https://doi.org/10.1109/ICCSP60870.2024.10543679</a> | IEEE      | Scopus   |

| S. No. | Name of the Authors   | Title of the paper  | Name of Journals/ Book   | Month/ Year | Vol. No./ Issue No./ Page No. | DOI/ISSN  | Publisher                        | Indexing |
|--------|---|---|--|-------------|-------------------------------|---|----------------------------------|----------|
|        |   | High Resistance to Prevent Side-Channel Attacks   | (ICCS)   |             |                               |   |                                  |          |
| 16.    | Y. Pradeep Kumar, V. Mustafa, G. Sudhakar, Kavin Francis Xavier, Rajeshwari V., Krishnaraj M. | Safeguarding Journeys: Raspberry pi's Intelligent Driver Monitoring   | IEEE International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES) | Mar-24      | 12(3)<br>(1315–1322)          | <a href="https://ijisae.org/index.php/IJISAE/article/view/5522">https://ijisae.org/index.php/IJISAE/article/view/5522</a> | European Alliance for Innovation | Scopus   |
| 17.    | P. Prakash; K. Bhagavan; P. Apsiya; C. Chandana   | A Comprehensive Liver Tumor Detection and Stages Classification Using Deep Learning and Image Processing Techniques | IEEE International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES) | Jun-24      | (1-7)                         | <a href="https://doi.org/10.1109/ICSSSES62373.2024.10561272">https://doi.org/10.1109/ICSSSES62373.2024.10561272</a>       | IEEE                             | Scopus   |
| 18.    | M. Sahaya Sheela; T. Shanthi; T. Arun Kumar; M. Muthuraja                                     | Raspberry Pi Pico Based Real Time Patient Health Monitoring System  | Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)                  | Mar-24      | (1-5)                         | <a href="https://doi.org/10.1109/ICCEBS58601.2023.10448915">https://doi.org/10.1109/ICCEBS58601.2023.10448915</a>         | IEEE                             | Scopus   |

## List of Faculties who have successfully completed Mooc's Courses (FDPs)

The faculties who have successfully completed Swayam NPTEL courses as faculty development programme during the academic year 2023-2024 are listed below:

### Academic Year: 2023-24 Faculty NPTEL Course Certified List (July - December 2023)

| S.No. | Faculty Name                 | Name of the NPTELCourse                   | No. of Weeks | % of Marks | Certificate Type            |
|-------|------------------------------|---|--------------|------------|-----------------------------|
| 1     | Dr. P Ramanathan             | Introduction to Machine Learning - IITKGP | 8            | 93         | Elite + Gold<br>1% Topper   |
| 2     | Dr. P Ramanathan             | Natural Language Processing               | 12           | 64         | Elite                       |
| 3     | Dr. Gourav Kumar Suman       | The Joy of Computing Using Python         | 12           | 79         | Elite+Silver                |
| 4     | Mr. Karthick B               | Computer Architecture                     | 12           | 72         | Elite + 5% Topper           |
| 5     | Mr. Mahammed Rafi Gangupalli | Computer Architecture                     | 12           | 77         | Elite + 5% Topper           |
| 6     | Mr. E Sathiyarayanan         | Computer Architecture                     | 12           | 77         | Elite + Silver<br>5% Topper |
| 7     | Mr. V Vamsi Krishna Muvvala  | Computer Architecture                     | 12           | 62         | Elite                       |
| 8     | Mrs. Anbarasi K              | Introduction to Internet of Things        | 12           | 82         | Elite+Silver                |
| 9     | Mr. Kamesh M                 | Introduction to Internet of Things        | 12           | 73         | Elite                       |
| 10    | Ms. Kavi Priya Saravanan     | Introduction to Internet of Things        | 12           | 85         | Elite+Silver                |

|           |                          |   |    |    |                           |
|-----------|--------------------------|---|----|----|---------------------------|
| <b>11</b> | Dr Kumar C               | Introduction to Internet of Things              | 12 | 90 | Elite + Gold<br>5% Topper |
| <b>12</b> | Mrs. Naga Swetha G       | Introduction to Internet of Things              | 12 | 79 | Elite+Silver              |
| <b>13</b> | Ms. Shaik Ayesha Tanveer | Introduction to Machine Learning -<br>IITKGP    | 8  | 80 | Elite+Silver              |
| <b>14</b> | Dr. Janmoni Borah        | Introduction to Machine Learning -<br>IITKGP    | 8  | 75 | Elite+Silver              |
| <b>15</b> | Dr. Mohit Kumar Singh    | Introduction to Machine Learning -<br>IITKGP    | 8  | 77 | Elite+Silver              |
| <b>16</b> | Dr.Smriti Baruah         | Introduction to Machine Learning -<br>IITKGP    | 8  | 80 | Elite+Silver              |
| <b>17</b> | Dr.Rakesh Nath Tiwari    | Introduction to Machine Learning -<br>IITKGP    | 8  | 75 | Elite+Silver              |
| <b>18</b> | Dr. Suman Saurav         | Introduction to Machine Learning -<br>IITKGP    | 8  | 72 | Elite                     |
| <b>19</b> | Dr. Devashish            | Introduction to Machine Learning -<br>IITKGP    | 8  | 68 | Elite                     |
| <b>20</b> | Dr. Rakesh Nath Tiwari   | Nanophotonics, Plasmonics, and<br>Metamaterials | 12 | 55 | Successfully completed    |
| <b>21</b> | Mrs. Anbarasi K          | Python for Data Science                         | 4  | 61 | Elite                     |
| <b>22</b> | Dr. Gourav Kumar Suman   | Python for Data Science                         | 4  | 76 | Elite+Silver              |
| <b>23</b> | Mrs. Naga Swetha G       | Python for Data Science                         | 4  | 55 | Successfully Completed    |
| <b>24</b> | Mr. Karthick B           | Advanced Linear Continuous<br>Control Systems   | 8  | 51 | Elite                     |

|    |                            |   |    |    |                             |
|----|----------------------------|---|----|----|-----------------------------|
| 25 | Ms. T Shanthi              | Introduction to Photonics                                   | 12 | 44 | Successfully Completed      |
| 26 | Dr. Nehru Kandasamy        | System Design Through Verilog                               | 8  | 91 | Elite + Gold<br>2% Topper   |
| 27 | Mr. H Shree Kumar          | System Design Through Verilog                               | 8  | 67 | Elite                       |
| 28 | Mr. T Manivannan           | System Design Through Verilog                               | 8  | 61 | Elite                       |
| 29 | Dr. G Nagajyothi           | System Design Through Verilog                               | 8  | 81 | Elite+Silver                |
| 30 | Mr. Prakash                | System Design Through Verilog                               | 8  | 72 | Elite                       |
| 31 | Mr.Torati Veerababu        | System Design Through Verilog                               | 8  | 55 | Successfully Completed      |
| 32 | Dr. Vivek Jain             | System Design Through Verilog                               | 8  | 90 | Elite + Gold<br>2% Topper   |
| 33 | Mr. Bodicherla Subbarayudu | Introduction to Research New title:<br>Research Methodology | 8  | 76 | Elite+Silver                |
| 34 | Dr. Mohit Kumar Singh      | Fundamentals of Artificial Intelligence                     | 12 | 79 | Elite + Silver<br>5% Topper |
| 35 | Dr K Sathesh               | Teaching and Learning In General<br>Programs: TALG          | 4  | 61 | Elite                       |
| 36 | Mrs. Kowsalya P            | Management Information System                               | 12 | 79 | Elite+Silver                |
| 37 | Mr. Prasanth VS            | Management Information System                               | 12 | 75 | Elite+Silver                |
| 38 | Dr R Kiran Kumar           | Management Information System                               | 12 | 56 | Successfully completed      |

|           |                               |  |    |    |                             |
|-----------|-------------------------------|--|----|----|-----------------------------|
| <b>39</b> | Dr. Reddy Hemantha            | Computer Architecture                            | 12 | 75 | Elite + Silver<br>5% Topper |
| <b>40</b> | Dr. Nishant Sharan            | Introduction to Machine Learning -<br>IITKGP     | 8  | 78 | Elite+Silver                |
| <b>41</b> | Dr. Nishant Sharan            | Fundamentals of Artificial Intelligence          | 12 | 79 | Elite + Silver<br>5% Topper |
| <b>42</b> | Mr. Veeraiah Maddu            | Digital Circuits                                 | 12 | 55 | Successfully completed      |
| <b>43</b> | Mr. Aravindraj E              | Analysis and Design Principles of<br>Microwave   | 8  | 56 | Successfully completed      |
| <b>44</b> | Mr. Rishikesh Kumar Thakur    | Computer Architecture                            | 8  | 62 | Elite                       |
| <b>45</b> | Mr. Rishikesh Kumar Thakur    | Fundamentals of Electronic Device<br>Fabrication | 4  | 67 | Elite                       |
| <b>46</b> | Mr. Rishikesh Kumar Thakur    | Introduction to Machine Learning -<br>IITKGP     | 8  | 54 | Successfully completed      |
| <b>47</b> | Mr. Rishikesh Kumar Thakur    | Introduction to Semiconductor<br>Devices         | 12 | 57 | Successfully completed      |
| <b>48</b> | Mr. Kashiraj Vithal Kalshetti | System Design Through Verilog                    | 8  | 79 | Elite+Silver                |
| <b>49</b> | Mr. Vaadapalli Mustafa        | Microelectronics: Devices to Circuits            | 12 | 58 | Successfully completed      |
| <b>50</b> | Mr. Chandramouli Joshi        | System Design Through Verilog                    | 8  | 77 | Elite                       |



**Academic Year: 2023-24 Faculty NPTEL Course Certified List (January – April 2024)**

| <b>S.No.</b> | <b>Faculty Name</b>    | <b>Name of the NPTELCourse</b>                                | <b>No. of Weeks</b> | <b>% of Marks</b> | <b>Certificate Type</b> |
|--------------|------------------------|---|---------------------|-------------------|-------------------------|
| 1            | Dr. P. Ramanathan      | Data Science for Engineers                                    | 8                   | 90                | Elite+gold+Topper       |
|              |                        | Business Intelligence & Analytics                             | 12                  | 92                | Elite+gold+Topper       |
| 2            | Dr. Nehru Kandasamy    | CMOS Digital VLSI Design                                      | 8                   | 77                | Elite+Silver            |
| 3            | Dr. K. Sathesh         | Outcome Based Pedagogic Principles For Effective Teaching     | 4                   | 58                | Successfully completed  |
| 4            | Dr. Grande Naga Jyothi | Fuzzy Logic and Neural Networks                               | 8                   | 77                | Elite+Silver            |
| 5            | Dr. R. Ravindraiah     | NBA Accreditation and Teaching-Learning in Engineering (NATE) | 12                  | 65                | Elite                   |
| 6            | Dr. G. Reddy Hemantha  | Introduction to Internet of Things                            | 12                  | 86                | Elite+Silver            |
| 7            | Dr. Dhruba Jyoti Bora  | Fuzzy Logic and Neural Networks                               | 8                   | 68                | Elite                   |
| 8            | Dr. Janmoni Borah      | Evolution of Air Interface Towards 5G                         | 8                   | 80                | Elite+Silver            |
| 9            | Dr. Suman Saurav       | The Joy of Computing using Python                             | 12                  | 69                | Elite                   |
| 10           | Dr. Sourav Ghosh       | Effective Engineering Teaching in Practice                    | 8                   | 91                | Elite+gold+ Topper      |
| 11           | Dr. C. Kumar           | Computer Networks and Internet Protocol                       | 12                  | 79                | Elite+Silver            |
| 12           | Dr. Smriti Baruah      | Evolution of Air Interface Towards 5G                         | 8                   | 88                | Elite+Silver+ TOPPER    |
| 13           | Dr. Arifa Ahmed        | Introduction to Internet Of Things                            | 12                  | 81                | Elite+Silver            |

|    |                        |  |    |    |                        |
|----|------------------------|--|----|----|------------------------|
| 14 | Dr. Devashish          | Fuzzy Logic and Neural Networks  | 8  | 64 | Elite                  |
| 15 | Dr. Nishant Sharan     | Design, Technology and Innovation                                      | 8  | 67 | Elite                  |
| 16 | Dr. R. Kiran Kumar     | Computer Networks and Internet Protocol                                | 12 | 54 | Successfully completed |
| 17 | Dr. Gourav Kumar Suman | Data Science for Engineers   | 8  | 65 | Elite                  |
| 18 | Mr. Mohit Kumar Singh  | The Joy of Computing using Python                                      | 12 | 53 | Successfully completed |
| 19 | Ms. K. Anbarasi        | Computer Networks and Internet Protocol                                | 12 | 86 | Elite+Silver+ Topper   |
| 20 | Mr. G. Mahammed Rafi   | Fuzzy Logic and Neural Networks  | 8  | 72 | Elite                  |
| 21 | Mr. B. Karthick        | Deep Learning  | 12 | 78 | Elite+Silver           |
| 22 | Mr. G. Subbarao        | EMI /EMC and Signal Integrity: Principles, Techniques and Applications | 12 | 47 | Successfully completed |
| 23 | Mr. E.Aravindraaj      | Computer Networks and Internet Protocol                                | 12 | 71 | Elite                  |
| 24 | Mr. Veeraiah Maddu     | Microprocessors and Microcontrollers                                   | 12 | 55 | Successfully completed |
|    |                        | Microprocessors and Interfacing  | 12 | 61 | Elite                  |
| 25 | Mr. Arjun Chakravarthy | Design Thinking - A Primer   | 8  | 78 | Elite+Silver           |
| 26 | Mr. E. Sathiyarayanan  | Fuzzy Logic and Neural Networks  | 8  | 92 | Elite+gold+Topper      |
|    |                        | Introduction to Soft Computing   | 8  | 55 | Successfully completed |
| 27 | Mr. V. S. Prashanth    | Introduction to Internet of Things                                     | 12 | 90 | Elite+gold+Topper      |
| 28 | Mr. G. Charan Kumar    | Computer Networks and Internet Protocol                                | 12 | 55 | Successfully completed |

|    |                       |   |    |    |                        |
|----|-----------------------|---|----|----|------------------------|
| 29 | Ms. P. Kowsalya       | NBA Accreditation and Teaching and learning in Engineering (NATE) | 12 | 83 | Elite+Silver           |
|    |                       | Ethics in Engineering Practice                                    | 8  | 78 | Elite+Silver           |
| 30 | Mr. Palacharu Prakash | Introduction to Internet of Things                                | 12 | 90 | Elite+gold+Topper      |
| 31 | Mr. M. Vamsi Krishna  | Fuzzy Logic and Neural Networks                                   | 8  | 53 | Successfully completed |
| 32 | T. Shanthi            | Microprocessors and Interfacing                                   | 12 | 72 | Elite                  |
| 33 | Mr. B. Subbarayudu    | The Joy of Computing using Python                                 | 12 | 55 | Successfully completed |
| 34 | Mr. M. Kamesh         | Computer Networks and Internet Protocol                           | 12 | 69 | Elite                  |
| 35 | Ms. S. Kavipriya      | Computer Networks and Internet Protocol                           | 12 | 68 | Elite                  |
| 36 | Mr. R. Arivarasu      | Computer Networks and Internet Protocol                           | 12 | 73 | Elite                  |
| 37 | Ms. Sai Anusha        | Communication Networks  | 12 | 77 | Elite+Silver           |

### **List of Faculties who are among top 1%/2%/5% in Swayam NPTEL courses (FDPs)**

The faculties who are among top 1%/2%/5% in Swayam NPTEL courses (Faculty Development Programme) during the academic year 2023-2024 are listed below:

#### **Academic Year: 2023-24 Faculty NPTEL Course Toppers List (July – December 2023)**

| <b>S.No.</b> | <b>Academic Year</b> | <b>Name of the FacultyMember</b> | <b>Name of the NPTEL Course</b>         | <b>Topper (1 % / 2% / 5 %)</b> |
|--------------|----------------------|----------------------------------|---|--------------------------------|
| 1            | July – Dec 2023      | Dr. P Ramanathan                 | Introduction to Machine Learning        | Topper of 1% in this course    |
| 2            | July – Dec 2023      | Mr. E Sathiyarayanan             | Computer Architecture                   | Topper of 5% in this course    |
| 3            | July – Dec 2023      | Mr. Karthick B                   | Computer Architecture                   | Topper of 5% in this course    |
| 4            | July – Dec 2023      | Mr. Mahammed Rafi Gangupalli     | Computer Architecture                   | Topper of 5% in this course    |
| 5            | July – Dec 2023      | Dr. Reddy Hemantha               | Computer Architecture                   | Topper of 5% in this course    |
| 6            | July – Dec 2023      | Dr Kumar C                       | Introduction To Internet Of Things      | Topper of 5% in this course    |
| 7            | July – Dec 2023      | Dr. Nehru Kandasamy              | System Design Through Verilog           | Topper of 2% in this course    |
| 8            | July – Dec 2023      | Dr. Vivek Jain                   | System Design Through Verilog           | Topper of 2% in this course    |
| 9            | July – Dec 2023      | Dr. Mohit Kumar Singh            | Fundamentals Of Artificial Intelligence | Topper of 5% in this course    |
| 10           | July – Dec 2023      | Dr. Nishant Sharan               | Fundamentals Of Artificial Intelligence | Topper of 5% in this course    |

**Academic Year: 2023-24 Faculty NPTEL Course Toppers List (January – April 2024)**

| <b>S.No.</b> | <b>Academic Year</b> | <b>Name of the FacultyMember</b> | <b>Name of the NPTEL Course</b>                                   | <b>Topper (1 % / 2% / 5 %)</b> |
|--------------|----------------------|----------------------------------|---|--------------------------------|
| 1            | Jan - April 2024     | Smriti Baruah                    | Evolution of Air Interface Towards 5G                             | Topper of 5% in this course    |
| 2            | Jan - April 2024     | Sourav Ghosh                     | Effective Engineering Teaching in Practice                        | Topper of 1% in this course    |
| 3            | Jan - April 2024     | Dr. P Ramanathan                 | Data Science for Engineers  | Topper of 1% in this course    |
| 4            | Jan - April 2024     | E Sathiyarayanan                 | Fuzzy Logic and Neural Networks                                   | Topper of 1% in this course    |
| 5            | Jan - April 2024     | Dr. P. Ramanathan                | Business Intelligence & Analytics                                 | Topper of 1% in this course    |
| 6            | Jan - April 2024     | Mrs. Anbarasi K                  | Computer Networks and Internet Protocol                           | Topper of 2% in this course    |
| 7            | Jan - April 2024     | Mr. Prakash                      | Introduction to Internet of Things                                | Topper of 5% in this course    |
| 8            | Jan - April 2024     | Mr. Prasanth VS                  | Introduction to Internet of Things                                | Topper of 5% in this course    |
| 9            | Jan - April 2024     | Mrs. Kowsalya P                  | NBA Accreditation and Teaching and learning in Engineering (NATE) | Topper of 5% in this course    |
| 10           | Jan - April 2024     | Mrs. V Sai Anusha                | Communication Networks  | Topper of 5% in this course    |

## List of Workshops organized

The list of workshops conducted in the academic year 2023-2024 along with the event details is mentioned in the table below:

| S. No | Name of event   | Event date | Convener/ coordinator    | Speaker details  |
|-------|---|------------|--------------------------|--|
| 1.    | Workshop - Latex: Essentials and Practices  | 26-02-2024 | Dr G Naga Jyoti          | <ol style="list-style-type: none"><li>1. Dr S Sridevi<br/>Professor, VIT University, Vellore</li><li>2. Dr Thirumalesu Kudithi<br/>Asst. Prof., The Apollo University, Chittoor</li><li>3. Dr S Kishore<br/>Sr. Design Engineer, ARM- Bangalore</li></ol>  |
| 2.    | Digital ASIC Design Using Open-Source Tools   | 19-04-2024 | Mr G Charan and Dr Nehru | <ol style="list-style-type: none"><li>1. Dr Noor Mahammad S K,<br/>Associate Professor, Indian Institute of Information Technology Design and Manufacturing</li><li>2. Dr Dhayalakumar M,<br/>Director and Founder of Meister Gen Technologies Pvt Ltd and Dhisai Technologies Pvt Ltd</li></ol> |
| 3.    | Three Days International Workshop on Advances in Electron Device Technology for IoT and Communication | 22-04-2024 | Mr. Maninvannan          | <ol style="list-style-type: none"><li>1. Dr. Narasimhulu Thoti, Post doctoral Researcher, University of Oulu, Finland (Physical)</li><li>2. Dr. Muthuraman Elangovan, Senior Data Plane Engineer, Atayalan, Taiwan (Online)</li></ol>  |

## List of Guest Lectures and Seminars

The list of Guest lectures and seminars conducted in the academic year 2023-2024 along with the event details is mentioned in the table below:

| Sl. No. | Name of event  | Event date | Convener/ coordinator               | Speaker details  |
|---------|--|------------|-------------------------------------|--|
| 1.      | Role of Artificial Intelligence in Medical Image Processing                                | 04-07-2023 | Dr Nehru Kandasamy                  | Dr R Murugan<br>Assistant Professor<br>ECE, NIT Silchar, Assam   |
| 2.      | One day Speech Program (Alumni)-Opportunities in Taiwan - Special Focus on Asia University | 09-08-2023 | Dr Rajasekharan                     | Arjun Chakravarthi Pogaku<br>WiCom Lab<br>Asia University, Taiwan  |
| 3.      | Linearization of Beyond Millimeter-Wave Transmitters                                       | 30-08-2023 | Dr. Arifa Ahmed and Dr Dhruva Jyoti | Dr. Ganesh Prasad<br>Assistant Professor<br>ECE, NIT Silchar, Assam  |
| 4.      | VLSI Design: Processes, Devices and Circuits   | 09-09-2023 | Dr Nehru Kandasamy                  | Dr. Sreelal Sreedharan Pillai, Sci/Engineer-G, Division Head<br>VSSC, ISRO, Trivandrum, Kerala   |
| 5.      | Sustainable energy storage systems: From materials to Devices                              | 28-11-2023 | Dr Sourav Ghosh                     | Prof. Deepak Dubal<br>School of Chemistry & Physics<br>Queensland University of Technology, Australia  |
| 6.      | Basic of Research, Paper Writing, Patent filing, Project Proposal submission (Online)      | 30-11-2023 | Dr Nehru Kandasamy                  | Dr Ch. Hima Bindu<br>M.Tech,Ph.D.,MIEEE,MISTE,MACM<br>Professor & HOD,<br>Department of ECE<br>QIS COLLEGE OF ENGINEERING<br>(Autonomous), ONGOLE-523272 |
| 7.      | Challenges and Innovation of Physical Design in VLSI Technology                            | 01-03-2024 | Dr G Reddy Hemantha                 | Dr B Chandrababu Naik,<br>NIT- Tiruchirappalli   |
| 8.      | Idea Generation and Funding Possibilities for Transforming Innovations into Enterprises    | 16-03-2024 | Dr Nishant Sharan                   | Dr. K.S. Balamurugan,<br>Professor & Head,<br>Karpaga Vinayaga College of Engineering and Technology, CEO of Rageba healthcare                           |



|     |   |            |   |   |
|-----|---|------------|---|---|
|     |   |            |   | Pvt. Ltd.- Founder of Rural Care Innovators LLP.  |
| 9   | Sand to System on Chip: VLSI Design, Fabrication & Testing flow                           | 08-04-2024 | Mr Rishikesh Kumar                        | Dr. Balwinder Singh, Joint Director, C-DAC, Mohali-160071, Punjab   |
| 10. | Fundamentals of Meta surface Design and its Applications in Energy Harvesting and Sensing | 15-04-2024 | Dr Mohit Kumar Singh                      | Dr. Rajan Agrahari, Assistant Professor, NIT, PATNA   |
| 11. | Cognitive neuroscience and its application  | 08-05-2024 | Dr. Dhruva Jyoti Bora and Dr. Arifa Ahmed | Dr. Jupitara Hazarika<br>Assistant Professor, Department of EIE,<br>NIT Silchar, Assam  |
| 12. | Reliability of electronic component   | 25-06-2024 | Dr Suman Saurav                           | Dr. Dapran Krishnakumar Shukla<br>Assistant professor<br>St. Andrews Institute of Technology and<br>Management, Gurugram, Haryana |

## List of FDP Attended

The list of FDP attended in the academic year 2023-2024 along with the event details is mentioned in the table below:

| S.No. | Faculty Name          | Date       |            | Topic   | FDP/Workshop/STC                | Organizer Name and Address             |
|-------|-----------------------|------------|------------|---|---------------------------------|--|
|       |                       | From       | To         |   | Seminar/Summer or Winter School |  |
| 1     | Mr.B.Karthick         | 09.05.24   | 15.05.24   | Emerging Trends on Control and Automation at Present Scenario | STTP                            | Dream Institute of Technology, Kolkata |
| 2     | Mr. T. Manivannan     | 09.05.24   | 15.05.24   | Emerging Trends on Control and Automation at Present Scenario | STTP                            | Dream Institute of Technology, Kolkata |
| 3     | Anbarasi K            | 11.03.2024 | 15.03.2024 | Free Simulators for ECE lab Practices                         | STC                             | NITTTR, Chandigarh                     |
| 4     | Kamesh M              | 11.03.2024 | 15.03.2024 | Free Simulators for ECE lab Practices                         | STC                             | NITTTR, Chandigarh                     |
| 5     | Dr. C. Kumar          | 11.03.2024 | 15.03.2024 | Free Simulators for ECE lab Practices                         | STC                             | NITTTR, Chandigarh                     |
| 6     | M.Veeraiah            | 11.03.2024 | 15.03.2024 | Free Simulators for ECE lab Practices                         | STC                             | NITTTR, Chandigarh                     |
| 7     | M.Vamsi krishna       | 11.03.2024 | 15.03.2024 | Free Simulators for ECE lab Practices                         | STC                             | NITTTR, Chandigarh                     |
| 8     | Mr.B.Karthick         | 11.03.2024 | 15.03.2024 | Free Simulators for ECE lab Practices                         | STC                             | NITTTR, Chandigarh                     |
| 9     | Dr. G. Reddy Hemantha | 11.03.2024 | 15.03.2024 | Free Simulators for ECE lab Practices                         | STC                             | NITTTR, Chandigarh                     |
| 10    | T. Manivannan         | 11.03.2024 | 15.03.2024 | Free Simulators for ECE lab Practices                         | STC                             | NITTTR, Chandigarh                     |
| 11    | E. Aravindraaj        | 11.03.2024 | 15.03.2024 | Free Simulators for ECE lab Practices                         | STC                             | NITTTR, Chandigarh                     |
| 12    | Prasanth.V.S          | 11.03.2024 | 15.03.2024 | Free Simulators for ECE lab Practices                         | STC                             | NITTTR, Chandigarh                     |
| 13    | T.Shanthi             | 03.06.2024 | 07.06.2024 | Blockchain Technologies                                       | FDP                             | NITTTR, Chennai                        |
| 14    | E.Sathiyarayanan      | Jan        | March      | Introduction to Soft Computing                                | FDP                             | NPTEL - IITM                           |

|    |                   |            |            |  |                                  |  |
|----|-------------------|------------|------------|--|----------------------------------|--|
| 15 | Dr. Nagajyothi    | 12.06.2024 | 14.06.2024 | Empowering the future GaN Semiconductor for a sustainable society: From qubits to front-end electronics and MOSFET physics | FDP                              | SERB sponsored, Department of ECE, CMRIT, Bengaluru                      |
| 16 | Dr. Suman Saurav  | 3.6.2024   | 7.6.2024   | Blockchain Technologies  | FDP                              | NITTTTR, Chennai   |
| 17 | G.Nagaswetha      | 6.05.24    | 10.05.24   | Advancing Research Methodology   | FDP                              | Inspire solutions, AICTE   |
| 18 | Dr. Sourav Ghosh  | 4.1.2024   | 01.02.2024 | Effective Engineering Teaching In Practice   | FDP                              | NPTEL  |
| 19 | P.Kowsalya        | 01.02.24   | 01.04.24   | Ethics in Engineering Practice   | FDP (8 Weeks)                    | NPTEL- AICTE FDP   |
| 20 | P.Kowsalya        | 24.01.24   | 24.04.24   | NBA Accreditation and Teaching Learning in Engineering (NATE)  | FDP (12 weeks)                   |  |
| 21 | K. Anbarasi       | 8.1.24     | 12.1.24    | Computer Networks and Internet Protocol  | FDP                              | NPTEL- AICTE FDP   |
| 22 | Ms.P.Kowsalya     | 14.03.24   | 18.03.24   | Advanced Technologies and Applications in Next Generation Communication and Sensing  | 5 Days FDP                       | SENSE, VIT , Chennai   |
| 23 | T Manivannan      | 14.03.24   | 18.03.24   | Advanced Technologies and Applications in Next Generation Communication and Sensing  | 5 Days FDP                       | SENSE, VIT , Chennai   |
| 24 | T.Shanthi         | 29.01.2024 | 3.2.2024   | Role of Bigdata and Cloud in the Era of Transformation   | FDP                              | GATES Institute of Technology, Autonomous, Gooty                         |
| 25 | Dr. R.Ravindraiah | 19.02.2024 | 24.02.2024 | Emerging Tools & Techniques in Cloud Computing & Data Science  | FDP                              | Narasimha Reddy Engineering College, Secundrabad, Telangana              |
| 26 | T. Manivannan     | 19.02.2024 | 23.02.2024 | "Unveiling Emerging Trends in Artificial Intelligence and Data Renaissance"  | 5 Days FDP                       | MITS, MADANAPALLE  |
| 27 | Ms. P.Kowsalya    | 12.2.2024  | 16.02.2024 | NBA Accreditation  | Professional Development Program | National Institute of Technical Teacher's Training and Research, Chennai |
| 28 | Mr. P.Prakash     | 12.2.2024  | 16.02.2024 | NBA Accreditation  | Professional Development Program | National Institute of Technical Teacher's Training and Research, Chennai |

|    |                     |            |            |  |                                  |  |
|----|---------------------|------------|------------|--|----------------------------------|--|
| 29 | Devashish           | 12.2.2024  | 16.2.24    | NBA Accreditation  | Professional Development Program | National Institute of Technical Teacher's Training and Research, Chennai |
| 30 | Dr. R.Ravindraiah   | 17.01.2024 | 22.01.2024 | Design & Innovation on Wireless Communication with Advanced Technology   | FDP                              | Dept. of ECE, GATES Institute of Technology, Gooty.                      |
| 31 | Dr. Nehru Kandasamy | 4.12.2023  | 9.12.2023  | ATAL FDP on Empowering Tomorrow's Mobility: AI-Driven Innovations for Electric Vehicles  | ATAL FDP                         | CMR INSTITUTE OF TECHNOLOGY, BANGALORE.                                  |
| 32 | Mr. T. Manivannan   | 4.12.2023  | 9.12.2023  | ATAL FDP on Empowering Tomorrow's Mobility: AI-Driven Innovations for Electric Vehicles  | ATAL FDP                         | CMR INSTITUTE OF TECHNOLOGY, BANGALORE.                                  |
| 33 | Dr.Janmoni Borah    | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP                              | Madanapalle Institute of Technology & Science                            |
| 34 | Dr.Smriti Baruah    | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP                              | Madanapalle Institute of Technology & Science                            |
| 35 | Dr. Janmoni Borah   | 20.11.2023 | 24.11.2023 | One Week FDP on "Communication, Signal Processing and Advance Technologies For Next Generation Applications"   | FDP                              | NIT Silchar & IEEE SB  |
| 36 | Dr. Smriti Baruah   | 20.11.2023 | 24.11.2023 | One Week FDP on "Communication, Signal Processing and Advance Technologies For Next Generation Applications"   | FDP                              | NIT Silchar & IEEE SB  |

|    |                      |            |            |  |     |   |
|----|----------------------|------------|------------|--|-----|---|
| 37 | Kavi Priya Saravanan | 20.11.2023 | 24.11.2023 | One Week FDP on "Communication, Signal Processing and Advance Technologies For Next Generation Applications"   | FDP | NIT Silchar & IEEE SB                         |
| 38 | Kavi Priya Saravanan | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP | Madanapalle Institute of Technology & Science |
| 39 | Kavi Priya Saravanan | 01.07.2023 | 01.10.2023 | Introduction to Internet of Things   | FDP | NPTEL-AICTE FDP                               |
| 40 | Dr. R. Kiran Kumar   | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP | Madanapalle Institute of Technology & Science |
| 41 | Mr.Aravindraaj       | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP | Madanapalle Institute of Technology & Science |
| 42 | Mr. Mahammed Rafi    | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP | Madanapalle Institute of Technology & Science |

|    |                           |            |            |  |     |   |
|----|---------------------------|------------|------------|--|-----|---|
| 43 | Mr.M.Veeraiah             | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP | Madanapalle Institute of Technology & Science |
| 44 | Mr. V. Nagaraja           | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP | Madanapalle Institute of Technology & Science |
| 45 | Gutti Naga Swetha         | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP | Madanapalle Institute of Technology & Science |
| 46 | Arjun Chakravarthi Pogaku | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP | Madanapalle Institute of Technology & Science |
| 47 | Mr. Karthick B            | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP | Madanapalle Institute of Technology & Science |

|    |                       |            |            |  |                     |  |
|----|-----------------------|------------|------------|--|---------------------|--|
| 48 | Mr. Prasanth V S      | 20.11.2023 | 24.11.2023 | Five Days IEEE Com Society Sponsored FDP on "Engineering Research Application of Artificial Intelligence (AI) Machine Learning (ML) and Internet of Things (IoT) using MATLAB" | FDP                 | Madanapalle Institute of Technology & Science                |
| 49 | Mr. T. Manivannan     | 20.11.2023 | 24.11.2023 | One Week FDP on Communication, Signal Processing and Advance Technologies For Next Generation Applications   | FDP                 | NIT Silchar & IEEE SB  |
| 50 | Dr. Dhruva Jyoti Bora | 10.7.2023  | 14.07.2023 | FDP on Recent Trends and Research Opportunities in Engineering and Technology  | FDP                 | Techno College of Engineering, Agartala                      |
| 51 | Dr. Dhruva Jyoti Bora | 4.7.2023   | 8.7.2023   | FDP on Application of AI and Optimization Algorithms in Engineering Field  | FDP                 | VIT-Chennai  |
| 52 | Dr. Dhruva Jyoti Bora | 21.08.2023 | 25.08.2023 | FDP on Cloud Infrastructure (AWS)  | FDP                 | GNI Hyderabad, Brainovision Solution, AICTE                  |
| 53 | Prasanth V S          | 21.08.2023 | 25.08.2023 | FDP on Cloud Infrastructure (AWS)  | FDP                 | brainovision Solutions India, AICTE                          |
| 54 | P. Prakash            | 21.08.2023 | 25.08.2023 | FDP on Cloud Infrastructure (AWS)  | FDP                 | AICTE and Brainovision                                       |
| 55 | Ms.S.Kavi Priya       | 21.08.2023 | 25.08.2023 | FDP on Cloud Infrastructure (AWS)  | FDP -one week       | AICTE and Brainovision                                       |
| 56 | Ms.S.Kavi Priya       | 21.08.2023 | 26.08.2023 | Recent Advances in Electronics and Communication Engineering – An approach through AI & ML”  | FDP -one week       | VIGNAN’S NIRULA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR WOME |
| 57 | Ms.P.Kowsalya         | 21.08.2023 | 25.08.2023 | One Week National Level Faculty Development Program on Cloud Infrastructure (AWS)  | FDP                 | AICTE and Brainovision                                       |
| 58 | Prasanth.v.s          | 07.08.2023 | 19.08.2023 | TECH TALES-IOT   | Two weeks FDP       | IIT Madras   |
| 59 | Dr Gourav Kumar Suman | 24.07.2023 | 24.08.2023 | Python for Data Science  | NPTEL FDP (4 Weeks) | GNI Hyderabad, Brainovision Solution, AICTE                  |



|    |                       |            |            |   |                      |   |
|----|-----------------------|------------|------------|---|----------------------|---|
| 60 | Karthick B            | 31.07.2023 | 04.08.2023 | Realization of community Microgrid using OPAL-RT  | One Week FDP         | VIT,Chennai   |
| 61 | T. Manivannan         | 21.08.2023 | 25.08.2023 | FDP on Cloud Infrastructure (AWS)   | FDP                  | AICTE and Brainovision                                  |
| 62 | Dr. Sourav Ghosh      | 21.08.2023 | 25.08.2023 | FDP on Cloud Infrastructure (AWS)   | FDP                  | SWAYAM NPTEL  |
| 63 | Karthick B            | 01.7.2023  | 01.09.2023 | Advanced Linear Continuous Control Systems: Applications with Matlab Programming and Simulink | NPTEL FDP (8 Weeks)  | SWAYAM NPTEL  |
| 64 | Mr. T. Manivannan     | 01.07.2023 | 01.09.2023 | System Design Through Verilog   | NPTEL FDP (8 Weeks)  | NPTEL SWAYAM  |
| 65 | Veerababu Torati      | 01.07.2023 | 01.09.2023 | System Design Through Verilog   | NPTEL FDP (8 Weeks)  | NPTEL SWAYAM  |
| 66 | Ms.P.Kowsalya         | 01.07.2023 | 01.10.2023 | Management Information System   | NPTEL FDP (12 Weeks) | IIT Madras  |
| 67 | Prasanth.V.S          | 03.10.2023 | 13.10.2023 | Cutting Edge trends in Deep Learning  | FDP                  | Sathyabama Institute of Science and Technology, chennai |
| 68 | Dr Gourav Kumar Suman | 01.07.2023 | 01.10.2023 | The Joy of Computing using python   | NPTEL FDP            | NPTEL - IIT, Kharagpur                                  |
| 69 | Gutti Nagaswetha      | 27.09.2023 | 05.10.2023 | Industry grade java: Integrating testing frameworks, sonarQube with a mini project            | 7 Days FDP           | Sathyabama University                                   |

## Award/Recognitions

The list of Award/ Recognitions received by the faculties in the academic year 2023-2024 along with the event details is mentioned in the table below:

| S.No. | Faculty Name           | Date                      | Type of Assignment                                 | Organization Name and Address   |
|-------|------------------------|---------------------------|--|---|
| 1     | G. Naga Jyothi         | 15-02-2024                | Resource person for the Guest lecture program      | VLSI Design -Its history and future, Srinivasa Institute of Technology and Science  |
| 2     | Dr. Sourav Ghosh       | 08-02-2024                | Distinguished Guest Speaker                        | Six days International Webinar on Disruption of Artificial Intelligence and Machine Learning, SRM   |
| 3     | Ms. P. Kowsalya        | January '24               | Certificate of Participation- VIKSHIT BHARAT @2047 | VIKSIT BHARAT @2047 -Contributing ideas towards realizing the Vision  |
| 4     | Dr. G. Naga Jyothi     | January '24               | Resource person for the Guest lecture program      | Resource Person- 'Documentation Preparation using Latex', CHADLAWALA RAMANNA ENGG.COLLEGE   |
| 5     | Dr. Sourav Ghosh       | 08-07-2023                | Guest Speaker                                      | Electrochemical Energy Storage Technologies:Current Research and Translational Trends<br>Indian Institute of Technology Madras, Chennai, Tamil Nadu                       |
| 6     | Dr. Rakesh Nath Tiwari | 18-10-2023                | Guest Speaker                                      | MIMO Antennas for Flexible and Wearable Electronics: Design, Analysis and Applications, IMS Engineering College, Ghaziabad, NH-09, Adhyatmik Nagar, Distt: Ghaziabad. UP. |
| 7     | Dr. Dhruva Jyoti Bora  | 31-08-2023                | Resource Person                                    | Recent Trends in Signal and Image Processing<br>Mother Teresa Institute of Engineering and Technology, Palamaner, AP  |
| 8     | Dr. P. Ramanathan      | 06.10.2023                | Ph.D thesis External Examiner                      | Karunya Institute of Technology and Sciences,<br>Karunya University, Coimbatore   |
| 9     | Dr. P. Ramanathan      | 09.12.2023-<br>10.12.2023 | Reviewer   | 3 <sup>rd</sup> International Conference on Smart Technologies,<br>Communication & Robotics (STCR)-2023, IEEE Madras<br>Section   |