



Dr. Sushma Jaiswal, Assistant Professor
B.Sc. Computer Science (Hon 's), MCA, UGC-NET, GATE, Ph.D., FSIESRP,
P.Engr, Int. Educational Ambassador, Honorary Doctorate (Social Works)

Centre/School/Special Centre

Mathematical & Computational Sciences

Department

Computer Science & Informational Technology
(CSIT)

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Qualification Ph.D., Rajiv Gandhi Technological University, Bhopal (M.P.)

Area of Interest/Specialization Digital Image Processing, Machine Learning, Machine/Computer Vision,
Computer Graphics

Experience 18 Years

(Pt. Ravishankar Shukla University, Raipur Grant 2+1 years leave for joined Guru Ghasidas Central University in the year 2012)

Awards and Honors

- Honorary Doctorate (Social Works)
- Award of Excellence in Research
- Best Faculty Award
- Best Women Scientist Award
- Best Teacher Award –Excellence in Computer Science
- Dr. Sarvepalli Radhakrishnan Best Teacher award
- India Top 100 Women ICON Award
- Dr. Sarvepalli Radhakrishnan Best Faculty Award
- Top 10 Professor of the Year Award
- Best Teacher Award in Digital Image Processing
- Best Teacher Award by Institute of Scholar
- Best Teacher Award (DIP)
- Education Icon Award (Teaching & Research)
- Outstanding Contribution in Education Services
- Global Education Forum & Awards
- Teacher Innovation Award
- Short Biography published in BIOGRAPHY TODAY-INDIA
- Best Professor of the Year by Education Icon Awards
- International lifetime Achievement Award 2020-2021
- Distinguished Female Scientist Award - Frontier Science
- Distinguished Professor Award
- International Leadership Award
- Bharat Achiever Awards 2022
- Pride of India Awards
- National Teacher Award 2021
- Best Teacher Award excellence in Computer science

- The Real Super Women Awards 2021
- Women Scientist Award 2022
- Frances Allen Ingenious Researcher Award 2022 in machine Learning
- Indian Glory Awards
- Life Time Achievement Award (Education & Research) 2022
- Dr. APJ Abdul Kalam Azad Best Research Scientist Award 2022
- Dr. Ambedkar Fellowship 2022
- Best Academician Award 2023
- ISGRD Fellowship 2023

Research Projects

01 (ongoing)

International Collaboration/Consultancy

- 2022 International Conference on Machine Learning and Knowledge Engineering (MLKE2022) in Guilin, China on February 25-27, 2022 (Member of Technical Program Committees).
- 2022 International Conference on Cloud Computing, Internet of Things and Computer Applications (CICA2022) in Luoyang, China on March 22-24, 2022 (Member of Technical Program Committees).
- Editor of International Journal- (in 2021 journal was the 3rd most cited publisher)

List of Publications (All)

- (2020) A Review on Image Segmentation, PP. 233-240, Rising Threats in Expert Applications and Solutions. Advances in Intelligent Systems and Computing, vol 1187. Springer, Singapore. https://doi.org/10.1007/978-981-15-6014-9_27
- (2020) A Review on American Sign Language Character Recognition, PP. 275-280, Rising Threats in Expert Applications and Solutions. Advances in Intelligent Systems and Computing, vol 1187. Springer, Singapore. https://doi.org/10.1007/978-981-15-6014-9_27.
- (2021) Optimization of Time-Driven Scheduling Technique for Serverless Cloud Computing. Turkish Journal of Computer and Mathematics Education Vol.12 No.1012. 3521-3528. 10.17762/turcomat.v12i10.5035.
- (2021) An Analysis of COVID-19 Related Heart Attack and Brain Stroke Detection using Artificial Intelligence, Linguistica Antverpiensia, 2021 Issue-2, www.hivt.be, Volume 2021: Issue 2 ,ISSN: 0304-2294
- (2021) A deep neural network based shape unification to define a 3-Dimensional shape. Elsevier. 10.1016/j.matpr.2020.12.1130.
- (2021) Machine Learning-Based Classification Models for Diagnosis of Diabetes, Recent Advances in Computer Science and Communications, DOI : 10.2174/2666255814666210201103252
- (2021) A review on smart grid telecommunication system. Elsevier. 10.1016/j.matpr.2021.05.581. DOI:10.1016/j.matpr.2021.05.581
- (2021) Real time analysis of intelligent placing system for vehicles using IOT with Deep learning. Elsevier. DOI:10.1016/j.matpr.2021.05.443.
- (2021), Application of Machine Learning to Improve Consumer Devices and Services, International Journal of Aquatic Science (IJAS), ISSN: 2008-8019 Vol 12, Issue 02, 2021
- (2021) Secure Block chain Based Data Storage and Integrity Auditing in Cloud, Turkish Journal of Computer and Mathematics Education Vol.12 No.9 (2021), 159-165.
- (2021) The Aspect of Vast Data Management Problem In Healthcare Sector And Implementation Of Cloud Computing Technology, Elsevier DOI:10.1016/j.matpr.2021.07.388
- (2021) The Impact of Data Mining And Artificial Intelligence On Supply Chain Management And Environmental Performance, Springer
- (2021) An Influence of Machine Learning in Medicine on The Physician's Prospective Role, IJOAER, EISSN 2666-2795

- (2021) Impact Of Machine Learning On Economic Crisis For HR Managers During Covid-19, Turkish Online Journal of Qualitative Inquiry (TOJQI), Vol 12, Issue 6, July 2021, 4882-4890
- (2021) Critically Analyzing The Concept Of Deep Learning And How It Impacts Organizational Performance, IEEE
- (2021) Facial Emotional Recognition By Using Neural Network, Elsevier ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.07.297>
- (2021), Diagnosis Of Lung Cancer Tumor Based On A Deep Conventional Neural Networks, Elsevier ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.07.297>
- (2021) An IoT and fog computing enabled intelligent health care monitoring system to optimize the cloud storage, Turkish Journal of Computer and Mathematics Education Vol.12 No.10 (2021), 2085-2091
- (2021) Inclusion of IoT, ML, and Blockchain Technologies in Next Generation Industry 4.0 Environment, Elsevier, <https://doi.org/10.1016/j.matpr.2021.07.273>
- (2021) Intellectual Machine learning: an integrated automated framework for the healthcare disaster, Elsevier, <https://doi.org/10.1016/j.matpr.2021.07.273>
- (2021) Machine Learning Framework to understanding and overcoming the resource management for healthcare environments, EFFLATPUNIA, ISSN: 1110-8703, PP.882-891, Vol 5 issue 2.
- (2021) Comparison and performance evaluation of deep learning and its impact on medical engineering and healthcare management, Drug and cell Therapies in Hematology, ISSN:2281-4876, Vol 10 issue 1(2021) pp. 1393-1399
- (2021) Analyzing the impact of machine learning on employee performance improvement during Covid-19, VIIRJ, ISSN: 2319-4979
- (2021) A comparative study of artificial intelligence on economic crisis for HR manager during Covid-19, VIIRJ, PP 2303-2308, ISSN 2319-4979
- (2021) Comparative Study Of Machine Learning And Their Impact On Overall Health Through The History Of Humanity, Drug and cell Therapies in Hematology , ISSN:2281-4876, Vol 10 issue 1(2021) pp. 1393-1399
- (2020) Deep Learning Approaches for Object Detection”, Artificial Intelligence Evolution, Volume 1 Issue 2 (2020), 63-144, ISSN-2717-5952.DOI: <https://doi.org/10.37256/aie.122020564>
- (2020) Survey on Recommender System Using Deep Learning Networks, Artificial Intelligence Evolution, Volume 1 Issue 2 (2020), 63-144, ISSN-2717-5952. DOI: <https://doi.org/10.37256/aie.122020435>
- (2020) Review on Machine Learning Techniques for Stock-Market Forecasting, Artificial Intelligence Evolution, Volume 1 Issue 1 (2020), 1-62, Artificial Intelligence Evolution, Volume 1 Issue 2 (2020), 63-144, ISSN-2717-5952, DOI: <https://doi.org/10.37256/aie.112020317>
- (2020) Remarkable Skeleton Based Human Action Recognition, Artificial Intelligence Evolution, Volume 1 Issue 2 (2020), 63-144, ISSN-2717-5952, DOI: <https://doi.org/10.37256/aie.122020562>
- (2019) Deep Learning Based Pain Treatment, International Journal of Trend in Scientific Research and Development (IJTSRD) Volume: 3 | Issue: 4 | May-Jun 2019 Available Online: www.ijtsrd.com e-ISSN: 2456 – 647, <https://doi.org/10.31142/ijtsrd23639>
- (2019) Deep Learning in Medicine, International Journal of Trend in Scientific Research and Development (IJTSRD) Volume: 3 | Issue: 4 | May-Jun 2019 Available Online: www.ijtsrd.com e-ISSN: 2456 – 6470, DOI:10.31142/IJTSRD23641
- (2019) Soft Computing Techniques Based Image Classification using Support Vector Machine Performance, International Journal of Trend in Scientific Research and Development (IJTSRD) Volume: 3 | Issue: 3 | Mar-Apr 2019 Available Online: www.ijtsrd.com e-ISSN: 2456 – 6470
- (2019) By artificial intelligence algorithms and machine learning models to diagnosis cancer, Elsevier
- (2019) An Analysis of COVID-19 Related Heart Attack and Brain Stroke Detection using Artificial Intelligence, LINGUISTICA ANTVERPIENSIA, 19-31, Vol 1: Issue 2
- (2016) Facial Recognition of Cartoon Characters Using Fusion Method, Journal of Applied Sciences and Computations, Vol 3 Issue 1 Jan-June 2016 (UGC Approved)
- (2017) Wavelet Transform and PCA for Face Verification, Journal of Applied Sciences and Computations, June 2017 (UGC Approved)

- (2018) Performances of DCT, DWT, and PSO in Digital Watermarking, Journal of Applied Sciences and Computations, 2018 (UGC Approved)
- (2021) Crossed Inverted-V Antenna with a Common Reflector for Polarization Diversity in the IoT, LINGUISTICA ANTVERPIENSIA, 32-42, Vol 1: Issue 2
- (2021) Real World use of Deep Learning Models for Cyber Security in IoT Networks, Design Engineering, 7921-7931, Vol. 2021: Issue 06.
- (2021) Impact of artificial intelligence and data mining on performance management during covid-19 pandemic, VIIRJ (Special Issue) ISSN:2319-4979
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- (2021) Machine Learning based Methodology for Intrusion Detection in Mobile Adhoc Networks, Design Engineering, ISSN 0011-9342, Issue7, Pages .689-.696, 2021.
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- (2021) Comparative Study of Machine Learning and Their Impact on Overall Health throughout the History of Humanity, Drug and cell Therapies in Hematology, 1393 – 1399, Vol 10 No. 1(2021).
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- (2021) Implementation of energy efficient artificial intelligence-based health monitoring and emergency prediction system using internet of thing (IoT) : Mediating effect of entrepreneurial orientation, Springer, Smart Innovation, Systems and Technologies, ISSN 2190-3018, E-ISSN: 2190-3026
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- (2021) The Integrated Framework of environmental internet of things based recruitment process and the impact created by IoT in inventory management, Springer, Smart Innovation, systems and Technologies (SIST) , ICMET, ISSN 2190-3018, E-ISSN- 2190-3026
- (2021) Machine Learning for the Manufacturing and Image Classification systems, International Journal of Biology, Pharmacy and allied Sciences (IJBPAS), ISSN 2277-4998
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- (2021) An IoT and Machine Learning based Framework to detect Block spots on Highways to prevent Road Accident, Design Engineering, ISSN 0011-9342
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- (2021) An empirical analysis of internet of things (IoT) in Emerging Data Security for Better System Integrity – A Critical Analysis on the Security Attacks and Relevant Counter measure through Multiple Regression Analysis Approach (MRAA), IEEE Explore
- (2021) Role of Internet of Thing in industry 4.0 Applications and Challenges, Design Engineering, ISSN No. 0011-9342
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- (2021) MLP-DTP: Performance Evaluation of Diabetes Class Prediction, IEMECON 2021 (10th International Conference on Internet of Everything, Microwave Engineering, Communication and Networks)
- (2021) Design of Machine Learning Based Evolutionary Model for Medical Image Segmentation, Design Engineering, ISSN No. 0011-9342
- (2021) Enhancing Privacy in Online Social Networks Using Data Analysis: Legal Aspects
- (2021) Deep Learning Application of Image Recognition based on Self-driving, Springer , Communication in Computer and Information Science, ISSN 1865-0929, E-ISSN-1865-0937
- (2021) Smart and Secured Data Communication using Modified AODV Protocol Over Wireless Communication Network, Second International Conference on Emerging Trends in Materials, Computing and Communication Technologies 'ICETMCCT 2021' organized by ANNAI Vailankannai College of Engineering
- (2021) Investigation the role of IoT in Development of Smart Application for Security Enhancement, EAI/Springer Innovation in Communication and Computing, ISSN 2522-8609, E ISSN 2522-8595
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- (2021) Critically analyzing the concept of Deep Learning and how it impacts organizational performance, ICACITE(2nd international conference on Advance computing and Innovative Technologies in Engineering), IEEE Explore
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- (2021) An empirical investigation in measuring the role of machine learning (ML) in enhancing innovation in the health care industry for sustainable business perspective, (Bulletin of Environment, Pharmacology and Life Sciences ISSN 2277-1808
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- (2021) An empirical analysis of 3D image processing by using machine learning based input processing for man-machine interaction, IEEE
- (2021) Machine learning experience in to modeling and simulation to improve the efficiency of construction engineering process management, IEEE
- (2021) Evaluation of Cluster approach for detecting black hole attacks in wireless adhoc networks using deep learning, 2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE) IEEE explore, DOI: 10.1109/ICACITE53722.2022.9823760
- (2022) Ensemble Approach: XGBoost, CATBoost, and LightGBM for Diabetes Mellitus Risk Prediction, 2022 Second International Conference on Computer Science, Engineering and Applications (ICCSEA)
- (2021) A Comparative Study of NLP based Semantic Web Standard model using SPARQL database, IEEE 2021 International Conference on Computing Sciences (ICCS).
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- (2022) An Empirical Analysis of 3D Image Processing by using Machine Learning-Based Input Processing for Man-Machine Interaction, International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), DOI:10.1109/ICACITE53722.2022.9823699
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- (2023) Linear discriminate analysis based robust watermarking in DWT and LWT domain with PCA based statistical feature reduction (Accepted)
- (2023) A Comparative Study of various digital image watermarking techniques: specific to hybrid watermarking (Accepted)
- (2023) Readmission Prediction among diabetic patients based on expert system (Accepted)

International Copyright

- IOT BASED AUTOMATED GREEN ENERGY MANAGEMENT OF PUBLIC GARDENS, Number:1189360
- IMPACT ON INDUSTRY 4.0, CHALLENGES, SOLUTIONS AND OPPORTUNITY FOR INDUSTRIES, NUMBER:1188350

- A NOVEL METHOD- CROP HEALTH MONITORING SYSTEM USING IOT AND MACHINE LEARNING, Number:1189458
- A SYSTEM FOR DETECTING POINT CORRESPONDENCES IN SETS OF POINTS FOR FINGERPRINT VERIFICATION, Number:1185600;
- DETECTION OF SPOOFING VULNERABILITY IN REVOLUTIONARY IOT NETWORKS TO AUGMENT SECURITY MECHANISM, Number:1195393
- IOT AND MACHINE LEARNING BASED ENERGY-EFFECTIVE AND SECURE WIRELESS DATA TRANSFER SCHEME FOR MOBILE NODES IN SMART CITY APPLICATIONS, Number:1187598
- A SYSTEM AND METHOD BASED ON NEURAL NETWORK AND HIDDEN MARKOV MODELLING FOR PREDICTING DRUG PROPERTY, L-106223/2021,OC Number L-106223/2021
- A VEHICLE SIMULATION TOOL BY PROVIDING WSN INSIDE THE VEHICLE WITH AI & ML BASED INTERFACES, L-105167/2021, OC Number L-105167/2021
- A SYSTEM AND METHOD FOR PREDICTING SEISMIC EVENT USING ML AND AI INTERFACES, L-106364/2021, OC Number L-106364/2021
- A SYSTEM AND METHOD FOR ANALYZING BIOLOGICAL EFFECTS OF MOLECULES USING MONTO CARLO METHOD, L-106496/2021, OC Number L-106496/2021,
- A SYSTEM FOR SHARING IMAGES AND MULTIMEDIA MESSAGE IN A CLOUD NETWORK, L-106676/2021, OC Number
- A SYSTEM AND METHOD FOR E-MAIL FEEDBACK IN A TRUSTED NETWORK USING NON-DETERMINISTIC METHODS & TOOLS, L-106789/2021
- A DATA MINING TOOL FOR MONITORING AND REPORTING FOR A CHANGE IN A REAL-TIME DATA, L-106657/2021
- A SYSTEM FOR FILTRATION OF MESSAGES IN A NETWORK USING STATISTICAL PROCESSES AND METHOD THEREOF, L-106939/2021
- A SYSTEM FOR CENTRALLY MANAGED CLOUD SERVICE BROKER AND THEIR PERFORMANCE ANALYSES, L-107312/2021
- IMAGE ANALYSIS DEVICE USING DEEP LEARNING DATA MODELING AND METHOD THEREOF, 20461/2021-CO/I, No. 29533
- AN ISOTROPIC ANTENNA BASED ON AI & ML INTERFACE HAVING MULTIFUNCTIONAL GUIDEWIRE ASSEMBLIES, L-107642/2021
- A HIGH FREQUENCY OSCILLATOR INVERTER WITH AN ADJUSTABLE REACTANCE, L-107372/2021
- A SYSTEM AND METHODS OF IMAGE-BASED ASSAY USING AI & ML INTERFACES, L-107578/2021
- A SYSTEM HAVING SYNCHRONOUS SIGNALING FOR INTERFACING VLSI CIRCUITS
- A SYSTEM FOR SERVER DRIVEN DATA SYNCHRONIZATION IN IOT CONNECTIVITY AND METHOD THEREOF, L-108563/2021
- AN APPARATUS FOR AUTOMATED DATA COLLECTION, MANAGEMENT, AND REPORTING BASED ON DEEP LEARNING AND ARTIFICIAL INTELLIGENCE AND METHOD THEREOF, L-108517/2021
- MULTIFUNCTION HEAT TRANSMISSION SIMULATOR WITH AI AND MACHINE LEARNING, L-108280/2021
- IMAGE ANALYSIS DEVICE USING DEEP LEARNING DATA MODELLING AND METHOD THEREOF, L-107967/2021
- THE CASE STUDY ON EMERGING TECHNOLOGY AND BUSINESS MODEL INNOVATION BY ARTIFICIAL INTELLIGENCE, L-108792/2021
- AN IMAGE PROCESSING SYSTEM FOR TOUCH DISPLAY PRODUCT, STORAGE, 26457/2021
- A CLOUD COMPUTING TECHNOLOGY BASED FILE MANAGEMENT AND UPLOADING METHOD & APPARATUS, 24946/2021
- AI AND IOT DRIVEN INTELLIGENT SENSOR BASED PRECISION AGRICULTURE SYSTEM FOR ILLITERATE FARMERS, 24415/2021

- A CONNECTOR MODULE FOR VLSI CIRCUIT WITH BATTERY PACK, 23463/2021

International Patent Grant

- SYSTEM ZUR VORBEREITUNG UND ÜBERTRAGUNG VON MEDIKAMENTENDOSEN MIT KÜNSTLICHER INTELLIGENZ; 20 2022 100 927.9
- INTELLIGENTES SYSTEM ZUR STEUERUNG VON STRASSENTTRANSPORTEN ZUR ABFERTIGUNG VON KRANKENWAGEN AUF DER BASIS VON IOT UND KÜNSTLICHER INTELLIGENZ; 20 2022 101 961.4
- AUF KÜNSTLICHER INTELLIGENZ BASIERENDES DIGITALE KREDITSYSTEM UND PERSONALISIERTE UNTERSTÜTZUNG, 20 2022 104 243.8
- MOBILE USER TRAJECTORY PREDICTION SYSTEM WITH EXTREME MACHINE LEARNING ALGORITHM, Application Number 2021105525
- FAILURE NODES DETECTION AND RECOVERY SYSTEM IN CLOUD COMPUTING TO IMPROVE RESOURCES RELIABILITY, Application Number 2021104045
- ENERGY EFFICIENT WIRELESS SENSOR NETWORK WITH OPTIMIZED CLUSTERING AND COMPRESSIVE SAMPLING, Application Number 2021103446
- A NOVEL MULTI-LEVEL OPTIMIZATION FOR TASK SCHEDULING AND LOAD BALANCING IN CLOUD, Application Number 2021103249
- AN AUTOMATIC TUMOR DETECTION SYSTEM BASED ON LOCAL LINEAR WAVELET ARTIFICIAL NEURAL NETWORK WITH HYBRID OPTIMIZATION, Application Number 2021103132
- AN IoT BASED SYSTEM FOR TRACING AND RECOGNIZING AN OBJECT, Application Number 2021102961
- AN AUTOMATIC OPTIMIZED FEATURES SELECTION SYSTEM IN RETINOPATHY DETECTION USING ACTIVE EXTREME LEARNING MACHINE, Application Number 2021102935
- A NOVEL VLSI BASED ARCHITECTURE FOR STROKE DETECTION USING OPTIMIZED RESOURCE ALLOCATION, Application Number 2021102581
- AN EFFICIENT IRIS RECOGNITION SYSTEM WITH COMPLETE LOCAL TERNARY PATTERN FEATURE EXTRACTION AND CLASSIFICATION METHOD, Application Number 2021102309
- ARTIFICIAL NEURAL NETWORK BASED EARLY DIAGNOSIS OF DIABETES MELLITUS, Application Number 2021101904
- THE WASTE SEGREGATION METHOD USING MACHINE LEARNING TECHNIQUE, Application Number 2021101744
- A REAL-TIME SMART HOME AUTOMATION SYSTEM BASED ON LABVIEW PLATFORM, Application Number 2021101660
- SOLAR PV POWER INTEGRATED SMART GRID BASED ENERGY MANAGEMENT SYSTEM, Application Number 2021101174
- DESIGN AND IMPLEMENTATION OF CONVOLUTION NEURAL NETWORK ON EDGE COMPUTING SMART PHONE FOR HUMAN ACTIVITY RECOGNITION, Application Number 2021101172
- IOT BASED OPTIMAL MANAGEMENT OF SMART FARMS USING WIND POWER SYSTEM, Application Number 2021100809
- ADDITIVE MANUFACTURING THROUGH BINDER JETTING TECHNIQUE FOR BIOMEDICAL EQUIPMENT, No. 2022/08579
- DESIGN METHOD FOR ANTENNA DISC OF WIFI ANTENNA FOR RURAL AND FOREST AREAS, No..2022/09656
- SOLVING THE PROBLEM OF WATER LOGGING, MODERN METHOD OF IRRIGATION IN AGRICULTURE WITH THE HELP OF DRONES, No. 2022/08977
- AN EDGE CLOUD-BASED SYSTEM WITH HYBRIDIZED RANDOM FOREST DEEP LEARNING CLASSIFICATION MODEL FOR PNEUMONIA IDENTIFICATION

- A METHOD FOR DETECTING CANCEROUS CELLS IN ASYMPTOMATIC PATIENTS USING MONOCLONAL ANTIBODY DRUGS
- A NEW TECHNOLOGY OF WIFI ANTENNA FOR RURAL AND FOREST AREAS
- A SAMRT COMPUTER SOFTWARE TO IDENTIFY TELEVISION PANELS TECHNOLOGY, ZA000202210667B
- A SYSTEM FOR DATA ENCRYPTION BASED ON CLOUD CRYPTOGRAPHY AND METHOD THEREOF
- DESIGN SMART SYSTEM TO SUPPORT FARMER FOR PRECISION AGRICULTURE BY IOT AND AI
- AN IOT BASED CLINICAL DIAGNOSTIC KIT FOR THE DETECTION OF LIFE-THREATENING DISEASE, ZA00202211494B

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- DRAGONFLY BRAIN-INSPIRED INTELLIGENT ROBOTIC DRONE TO REMOVE WEEDS IN AGRICULTURAL FARM PLANTS, Number 202141040214
- MULTIFUNCTION HEAT TRANSMISSION SIMULATOR WITH AI AND MACHINE LEARNING, Number 202131039493
- AN IMAGE ANALYSIS DEVICE USING DEEP LEARNING DATA MODELLING AND METHOD THEREOF, Number 202141038588
- A SYSTEM FOR CLOUD MONITORING AND REPAIR METHOD IN AN IOT NETWORK, Number 202111038153
- THE SYSTEM AND APPARATUS FOR PRECISELY SMART FARMING, Number 202141038129
- IMAGE RECONSTRUCTION METHOD VIA ITERATIVE LINEAR INTERPOLATION USING VERGE POINTS, Number 202141038028
- INTELLIGENT PREDICTION AND IMAGE GENERATION MODEL USING MACHINE LEARNING TO TRAIN SELF-DRIVING CARS, Number 202141037739
- A SYSTEM FOR PROVIDING IOT BASED SECURITY MODULE FOR GUEST SECURITY IN IOT NETWORK AND METHOD THEREOF, Number 202141037545
- A NOVEL BLOCK BASED FEATURE LEVEL IMAGE FUSION SYSTEM USING LWT AND NEURAL NETWORKS, Number 202141037164
- ISOTROPIC ANTENNA BASED ON AI & ML INTERFACE HAVING MULTIFUNCTIONAL GUIDE-WIRE ASSEMBLIES, Number 202141036940
- SENSOR BASED INTELLIGENT BRAIN COMPUTER INTERFACE SYSTEM FOR ASSISTING HAND PARALYZED PATIENTS TO PERFORM TYPING BY BRAIN, Number 202141036605A
- SYSTEM HAVING SYNCHRONOUS SIGNALING FOR INTERFACING VLSI CIRCUITS, Number 202111036217
- A SYSTEM FOR SERVER-DRIVEN DATA SYNCHRONIZATION IN IOT CONNECTIVITY AND METHOD THEREOF, Number 202141034610
- SKIN CANCER (MELANOMA) DETECTION AND RECOMMENDER SYSTEM USING DEEP LEARNING, Application Number 202141034599
- A NOVEL ROBUST METHOD FOR PATTERN RECOGNITION SYSTEM WITH ENHANCED MICRO STRUCTURE DESCRIPTORS BASED CLASSIFICATION, Number 202141033370
- SENSOR BASED INTELLIGENT HAND GLOVES FOR HEALTHCARE PROFESSIONALS FOR USE DURING COVID-19 PANDEMIC, Number 202141033338
- A SYSTEM FOR FILTRATION OF MESSAGES IN A NETWORK USING STATISTICAL PROCESSES AND METHOD THEREOF, Number 202141033101
- A DATA MINING TOOL FOR MONITORING AND REPORTING FOR A CHANGE IN A REAL-TIME DATA, Number 202141032482
- INTELLIGENT WEARABLE SWEAT SENSOR BASED DEVICE FOR MONITORING AND RECOMMENDING PERSONAL PHYSICAL FITNESS, Number 202111032293

- A SYSTEM AND METHOD FOR MINING TRAFFIC PATTERNS OF IoT DEVICES IN EDGE NETWORKS, Number 202141031766
- A SYSTEM AND METHOD FOR E-MAIL FEEDBACK IN A TRUSTED NETWORK USING NON-DETERMINISTIC METHODS & TOOLS, Number 202141031755
- A SYSTEM FOR SHARING IMAGES AND MULTIMEDIA MESSAGE IN ACLOUD NETWORK, Number 202141031402
- A SYSTEM AND METHOD FOR ANALYSING BIOLOGICAL EFFECTS OF MOLECULES USING MONTE CARLO METHOD, Number 202141031063
- A SYSTEM AND METHOD BASED ON NEURAL NETWORK AND HIDDEN MARKOV MODELLING FOR PREDICTING DRUG PROPERTY, Number 202141030994
- MACHINE LEARNING AND IOT BASED SMART WEARABLE SYSTEM FOR AUTONOMOUS MANAGEMENT OF DIABETES MELLITUS, Number 202141030571
- A SYSTEM AND METHOD FOR PREDICTING SEISMIC EVENT USING ML & AI INTERFACES, Number 202141030433
- A SYSTEM AND METHOD FOR DATA ENCRYPTION BETWEEN IOT DEVICES AND A NETWORK GATEWAY, Number 202141030003
- ARTIFICIAL INTELLIGENCE BASED SMART SOLAR TRACKING TECHNIQUE FOR UNINTERRUPTED POWERING SYSTEM, Number 202141029699
- A SYSTEM FOR PROVIDING HARDWARE ACCESS USING A VIRTUAL MACHINE ENVIRONMENT WITH A USER AUTHENTICATION, Number 202141028836
- IMAGE CONTRAST ENHANCEMENT SYSTEM WITH FUZZY BASED THRESHOLD HISTOGRAM EQUALIZATION, Number 202111028832
- A SYSTEM AND METHOD FOR PROCESSING RANDOM ACCESS PROCEDURES IN RELAY USING STATE-ACTION-REWARD-STATE-ACTION (SARSA), Number 202141028054
- DESIGNING AN ELECTRIC CIRCUIT BY USING A NEURAL NETWORK WITH BAYESIAN INFERENCE TO SELECT SUB-ROUTES FOR CONNECTING ELEMENTS, Number 202141027526
- A SYSTEM AND METHOD FOR SECURE CONNECTION WITH NEWLY CONNECTED DEVICE IN CLOUD NETWORK, Number 202111025113
- A VEHICLE TIRE CONTROL SYSTEM AT CURVED ROADS USING INTELLIGENT INTERFACES AND SUPPORT VECTOR MACHINES, Number 202141025111
- A VEHICLE SIMULATION TOOL BY PROVIDING WSN INSIDE THE VEHICLE WITH AI & ML BASED INTERFACES, Number 202141024465
- A WEARABLE ARTICLE WITH SENSORS AND ML & AI MODULES FOR ANALYSING BEHAVIOUR OF USER, Number 202141024071
- SMARTMON: MONITORING THE STATUS OF SMART DEVICES VIA NETWORK TRAFFIC, Number 202121023839
- A NOVEL SYSTEM BASED ON RANDOM SAMPLE CONSENSUS (RANSAC) FOR IRIS RECOGNITION IN NON-IDEAL IMAGING CONDITIONS, Number 202141023786
- A SYSTEM BASED ON MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE MODULES FOR PROVIDING IOT NETWORK CONFIGURATION THROUGH USER VOICE AND GESTURE AND METHOD THEREOF, Number 202141023485A
- NOVEL SYSTEM FOR INTERFACING THE ARTIFICIAL INTELLIGENCE WITH DISTRIBUTED SMART GRIDS, Number 202111020987
- A SYSTEM FOR RESOURCE AGGREGATION TO THE CLOUD WITH OPTIMAL PATH DETECTION, Number 202141020723
- AN ARTIFICIAL INTELLIGENCE BASED VOICE COMMANDING GLUCOSE MONITORING AND DETERMINING SYSTEM, Number 202121019989
- A NEUROMORPHIC SYSTEM FOR INTEGRATING A MODULAR PIECES OF AN ASSEMBLY, Number 202121019690

- A SYSTEM BASED ON NEURAL NETWORK TO REFINE THE HEURISTIC DATA WITH IMAGE PROCESSING TECHNIQUES, Number 202141019150
- DESIGN AND IMPLEMENTATION OF SMART AIR QUALITY DETECTION SYSTEM BASED ON IOT, Number 202121018506
- A NOVEL METHOD OF OBJECT DETECTION USING FEEDFORWARD DEEP CONVOLUTIONAL ARTIFICIAL NEURAL NETWORK IN WSN, Number 202141018109
- A NOVEL REAL TIME SENTIMENT DATA CLASSIFICATION SYSTEM WITH ENHANCED LONG SHORT TERM MEMORY, Number 202141017859
- ARTIFICIAL NEURAL NETWORK BASED DETECTION OF COVID-19 FROM CHEST X-RAY, Number 202121012313
- IOT BASED AUTONOMOUS FLOOR DISINFECTING SMART UV ROBOTIC SYSTEM, Number 202141001081
- VLSI BASED EEG SIGNAL PROCESSING FOR SMART PATIENT MONITORING SYSTEM, Number 202041044774
- A SYSTEM FOR PREAMBLE DATA GENERATION AND ENCODING NESTED QR CODE AND METHOD THEREOF, Number 202141040841
- SENSOR-BASED INTELLIGENT DIGITAL NOSE FOR ANALYSING THE BREATHING PATTERNS OF LUNG CANCER PATIENTS USING MACHINE LEARNING, Number 202141041757
- BLOCKCHAIN BASED INTERNET OF THINGS SYSTEM WITH DATA PROCESSING AND CLEANING METHOD TO THE SENSOR DATA, Number 202111041771
- SENSOR BASED INTELLIGENT SMART WATCH FOR EARLY DETECTION OF HEART ATTACKS IN PATIENTS SUFFERING FROM CARDIOVASCULAR DISEASES, Number 202141045592
- A VIRTUALIZATION SYSTEM FOR INTERNET OF THINGS (IOT) DEVICES AND THEIR CONNECTED STORAGE MEDIUM AND METHOD THEREOF, Number 202141045802
- A CRYPTOGRAPHIC SYSTEM BASED ON CONVOLUTION NEURAL NETWORK AND NESTED SECURITY LEVELS AND METHOD THEREOF, Number 202141046111
- HYBRID STATISTICAL MODEL TO DISTRIBUTED SERVER ON CLOUD COMPUTING ENVIRONMENT, Number 202131042186
- A CLOUD COMPUTING TECHNOLOGY-BASED FILE MANAGEMENT AND UPLOADING METHOD & APPARATUS , Number 202111046812
- A NOVEL MULTIMODAL MEDICAL IMAGE FUSION SYSTEM WITH PIXEL LEVEL FUSION, Number 202141043000
- AI AND WIRELESS BASED SMART DRUG PRESCRIPTION MANAGEMENT FOR AUTONOMOUS DRUG DELIVERY SYSTEM, Number 202141046324
- AN EFFICIENT PREDICTION AND ASSESSMENT OF VEHICLES IN REAL TIME TRAFFIC, No.202141043325
- A CONNECTOR MODULE FOR A VLSI CIRCUIT WITH A BATTERY PACK, Application Number 202141043814
- SENSOR BASED INTELLIGENT WEARABLE HELMET FOR EARLY DETECTION OF STROKE IN PATIENTS, Number.202141044803
- INTELLIGENT AGRICULTURE – SMART IOT SYSTEM TO ASSIST FARMERS IN EFFECTIVE DECISION MAKING USING DATA SCIENCE, Number 202141046585
- MACHINE LEARNING BASED INTELLIGENT SENSOR FRAMEWORK TO ASSIST FARMERS IN WEATHER FORECASTING FOR APPROPRIATE CROP CULTIVATION, Number 202141047024
- AN IMAGE PROCESSING SYSTEM WITH CONVOLUTIONAL NEURAL NETWORK MODULES AND METHOD THEREOF, Number 202141047288
- AN ARTIFICIAL INTELLIGENCE BASED WIRELESS COMMUNICATION SYSTEM, CONTROL DEVICE AND METHOD THEREOF, Number 202141048454
- FALLING CAT INSPIRED INTELLIGENT QUADRUPEDAL ROBOT TO ASSIST PEOPLE DURING RISKY MOUNTAIN TREKKING, Number 202141048690

- A SYSTEM FOR ENCODING AND DECODING DATA USING CLOUD COMPUTING AND METHOD THEREOF, Number 202141049308
- AN IMAGE PROCESSING SYSTEM FOR TOUCH DISPLAY PRODUCT, STORAGE MEDIUM & ELECTRONIC DEVICE, Number 202131049863
- AN IOT BASED SYSTEM FOR ALARM CLOCK HAVING TEMPERATURE MEASUREMENT FUNCTION AND METHOD THEREOF, Number 2021410500202
- A WEARABLE SWEAT SENSOR BASED INTELLIGENT DEVICE TO DETECT THE STRESS LEVELS OF A PATIENT BY MONITORING CORTISOL AND BLOOD GLUCOSE LEVELS, Number 202141053048
- IOT BASED EVENT DRIVEN AIR QUALITY SENSOR NETWORK TO DETECT FOREST FIRES USING DRONE BASED INTELLIGENT MICRO ELECTRICAL SYSTEMS (MEMS) TECHNOLOGY, Number 202141053855
- BRAIN INSPIRED ARTIFICIAL INTELLIGENT IMPLANT TO DETECT HEART DISEASE USING RESERVOIR COMPUTING, Number 202141052156
- A DATA PROCESSING SYSTEM AND METHOD FOR VEHICLE-END DEVICE WITH A CLOUD COMPUTING, Number 202131053753
- A SYSTEM FOR DETERMINING INDOOR LOCATION USING DIGITAL VISUAL SYSTEM BASED ON INTERNET OF THINGS (IOT), Number 202131052161
- A SYSTEM FOR TAGGING IoT DEVICE BASED ON CONVOLUTION NEURAL NETWORK (CNN) AND METHOD THEREOF, Number 202141051612
- AN AI & ML BASED SYSTEM FOR FABRICATING POWER VLSI DIODE DEVICES AND METHOD THEREOF, Number 202141051706
- MEDICAL IMAGE PROCESSING SYSTEM, IMAGE PROCESSING METHOD, AND MEDICAL IMAGE PROCESSING DEVICE, Number 202141050901
- Title of the invention : A SYSTEM BASED ON DEEP LEARNING THREE-DIMENSIONAL PIPELINE RECONSTRUCTION AND METHOD THEREOF, Number 202131050687
- 81. SENSOR BASED INTELLIGENT ROBOTIC COOKING KITCHEN USING HAPTIC TECHNOLOGY, Number 202141056091
- AN IoT GARBAGE SEGREGATOR & BIN LEVEL INDICATOR DEVICE, Number 353840-001
- HYBRID HUMAN-MACHINE LEARNING METHOD TO PROVIDE REAL-TIME PERSONALIZED HOSPITALITY SELF-SERVICE CHECK-IN SYSTEM FOR HOTEL GUESTS, Number 202141054994
- AN APPARATUS FOR AUTOMATED DATA COLLECTION, MANAGEMENT, AND REPORTING BASED ON DEEP LEARNING AND ARTIFICIAL INTELLIGENCE AND METHOD THEREOF, No.202131041447
- A SYSTEM BASED ON THERMAL IMAGE PROCESSING FOR SUBCUTANEOUS DETECTION OF VEINS, BONES AND METHOD THEREOF, No.202131041447
- SENSOR BASED INTELLIGENT WEARABLE DEVICE TO MONITOR BLOOD GLUCOSE LEVELS OF A DIABETES PATIENT AND GENERATE INSULIN USING ARTIFICIAL PANCREAS, No.202141056911
- A SYSTEM BASED ON DEEP LEARNING THREE -DIMENSIONAL PIPELINE RECONSTRUCTION AND METHOD THEREOF, No.202131050687
- A SYSTEM FOR FINGERPRINT IMAGE PROCESSING FOR AN ELECTRONIC DEVICE AND METHOD THEREOF, No.202141055545

Recent Books/Book Chapters/Monographs etc.

- (2011), Automatic 3D face Recognition & Modeling from 2D Images, ISBN No. - 978-3-8443-8740-7.
- (2017), Operating Systems, ISBN No. - 978-93-85882-27-2.
- (2017), Computer Fundamentals, ISBN No. - 978-93-85882-11-1.
- (2016), Concepts of C, ISBN No. - 978-93-85882-91-3.
- (2017), Research Methodology, ISBN No. - 978-93-85882-28-9.
- (2016), Data Structures, ISBN No. - 978-93-85882-13-5.
- (2016), Introduction to System Analysis and Design, ISBN No.- 978-93-85882-92-0

- (2018), Principles of Computer Graphics, ISBN No. - 978-620-2-09384-2.
- (2018), Fundamentals of Software Engineering, ISBN No. - 978-620-2-19925-4.
- (2019), Software Testing, ISBN No. - 978-613-974356-4.
- (2019), Fundamentals of Computer Networks, ISBN No.- 978-613-9-47356-4.
- (2019), Machine Learning Based Subtitles Detection with NLP, ISBN No. - 978-620-0-23798-9.
- (2021), Vb. Net, ISBN No. - 978-620-0-23798-9.
- (2021), Data Science, ISBN No. - 978-9391987565.
- (2021), Object Oriented Programming, ISBN No. - 978-620-0-23798-9.
- (2022), Business Finance, ISBN No. -978-620-0-237
- (2022), Cloud Computing, ISBN No. -978-9391987855
- (2022), Ethical Hacking, ISBN No. -978-9391987923
- (2022), Introduction to Deep Learning, ISBN No. -978-620-0-23798
- (2022), Artificial Intelligence and intelligent system for beginners, ISBN No. -
- (2022) Python in Data analytics, ISBN No.- 9789394304420
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- (2022) Cyber Security, G.C. Publishers, ISBN No.- 9789394304185
- (2022) Artificial Neural Network, ISBN No.- 9789394304031
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- (2022), Artificial Neural Network, ISBN No.- 9789391987527
- (2022), Human Computer Interaction, ISBN No.- 9789391987268
- (2022) Advanced Internet of Things,
- (2022), Artificial Intelligence and Intelligent System For Beginners, ISBN No.- 978-9355151827.
- (2022), Medical Image Processing, ISBN-978-93-95191-16-6
- (2022), Fundamental of Neural Network and Deep Learning, ISBN-9789355155146
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- (2022), Machine Learning, ISBN-
- (2022), Machine Learning, Approaches for Better Management in Competitive Environment, ISBN-
- (2022), Blockchain Technologies, ISBN- 9789395191210
- (2022), Medical Image Processing, ISBN- 9789395191166.

Research Supervision 03 M.Phil (Awarded), 03 Ph.D. Pursuing

Administrative Responsibilities

- Assistant Superintendent Semester Examination 2010, in School of Studies in Computer Sciences, Pt. Ravishankar Shukla University, Raipur-492 010.
- Assistant Superintendent Semester Examination 2011, in School of Studies in Computer Sciences, Pt. Ravishankar Shukla University, Raipur-492 010.
- Assistant Superintendent Semester Examination 2017, in Guru Ghasidas Central University, Bilaspur.
- Assistant Superintendent Semester Examination 2019, in Guru Ghasidas Central University, Bilaspur.
- Member of Antiraging Committee 2010, Pt. Ravishankar Shukla University, Raipur.
- Member of M.Phil. Committee 2010, Pt. Ravishankar Shukla University, Raipur.
- Member of Antiraging Committee 2018-till date, Guru Ghasidas Central University, Bilaspur.

- Member of Auditorium Committee 2018-till date, Guru Ghasidas Central University, Bilaspur.
- Member of Form Scrutiny Recruitment 2019, 2022, Guru Ghasidas Central University, Bilaspur.
- Member of Rajyotsava Committee, Pt. Ravishankar Shukla University, 2009.
- Member of Rajyotsava Committee, Pt. Ravishankar Shukla University, 2010.
- Member of Kul Utsav, Guru Ghasidas Central University, 2018.
- Teacher Coordinator for Science Fest (Espectro 2018), Guru Ghasidas Central University.
- DRC Member Ph.D., Guru Ghasidas Central University, 2017.
- DRC Member Ph.D., Guru Ghasidas Central University, 2019, 2021.
- TEQIP Project Assistant- Assist TEQIP (Technical Education Quality Improvement Program) Project of *World Bank* 2007-2008, in University Institute of Technology, to Rajiv Gandhi Technical University, Bhopal (Madhya Pradesh).

Additional Information

- Exceptional Primary Evaluator for the Toycathon-2021
- Judge and Evaluator for the Toycathon-2021 Grand Finale-2021
(Organized by Ministry of Education's Innovation Cell and AICTE)
- Exceptional Primary Evaluator for the Smart India Hackathon and Judges Panel-2022
(Organized by MoE, Government of India, AICTE)
- Selected for Translation Work by AICTE -English transcripts for translation in "Hindi" language, 2021 with IIT respective Professors.
- NCC Certificate in School Level
- Rangoli Sate level winner School Level
- Slogan Writing and Painting Winner School Level
- Programme Officer NSS, 2022-2023 Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.)
- Invitation VIP Guest at Franchise India 2022 on Pragati Maidan, Delhi
- Invitation 'Commonwealth Education Conference 2023, UK
- Participated and Member of Ek Bharat Shrestha Bharat Programme (EBSB)-Guru Ghasidas Central University, Bilaspur-Visit Gujrat with team of Students, GGV in the year 2017, 2020
- Unit Test Examination In-charge 2015, Time Table In-charge 2016, Lab In-charge 2012, 2013: GGV
- M.Sc. (CS) course Cordinator 2020, 2021
- Cordinator, Student Attendance Management, CSIT 2023
- Member of technical fest 2013, 2014 GGV
- Co-Editor- International Peer-Reviewed Edited Book on Multidisplinary Approach in Research (Aug 22.
- National /International/ Webinar Attended in No.'s 300+
- Two Week/One Week FDP attended/Three week in No.'s 091+
- Attended Orientation Course UGC Approved 001
- Attended Refresher/ Short Term Course UGC Approved 003
- Reviewers and Members of Various Scientific Committees 2006-Continue
- Delivered Expert lectures in FDP and workshops
- Professional Certification 50+

Orientation Course attended

- Attend "Orientation Program" by academic Staff College, Pt. Ravishankar Shukla University, Raipur during 28.01.2009 to 24.02.2010

Attended Refresher/ Short Term Course UGC Approved/Workshop/ FDP (1/2/3 Week)

- Attended the AICTE sponsored Staff Development Programme on “Pattern Recognition using Neural Network” from 16 to 28 January 2006.
- Participate in “UGC-sponsored workshop on “science citation index, social science index impact factor, citation index and hindex of research publication” date 10.09.2010, organized by Academic Staff College , Pt. Ravishankar Shukla University, Raipur(C.G.)
- Participated in “UGC-Sponsored Workshop on “How to Write Research Project” Workshop 12/01/2012 to 19/01/2012.
- Faculty Development Programme on “ Trends in Cloud Computing and It’s Applications in Industry” 2-Week FDP June 01-11, 2011
- Faculty Development Programme on “Intelligent Computation Techniques” Sponsored AICTE two Week FDP, July 4-15, 2011
- Faculty Development Programme on “Recent Trends in Big Data & Analysis with Practical based Approach, May 19-30, 2016.
- Participated in the Refresher Course in the subject Summer School Research Methodology” (Interdisciplinary) form 16/06/2018 to 06/07/2018.
- Participated in the Refresher Course in the subject Summer School Advances in Engineering & Technology” Under Summer Programme as an Additional Course form 05/06/2017 to 24/06/2017.
- Faculty Development Programme on “Educational Management and Leadership for Sustainable Environment”, December 10-30, 2020.
- Two Weeks FDP, Emerging Research Trends in Computer Science & IT, 08th -19th June 2020
- E & ICT Academy , Indian Institute of Technology Kanpur, Date of Issue:12-02-2021
- Faculty Development Programme on “Responsibility of Higher Education Institutions under AICTE in Implementing Sustainable Development Goals”, 11.02.2021 to 24.02.2021.
- Faculty Development Programme on “System Design Methodologies for Embedded, IoT, AI, & HPC using Intel FPGA”, 19 - 30 April, 2021
- Faculty Development Programme on “ICT Tools for Teaching, Learning Process”, 10th -21st August, 2020
- Faculty Development Programme on “Next-Generation Semiconductor Devices for high-end applications”, 22nd– 28th June, 2020
- online Training Programme on Digital tools for Writing, Authoring & Reviewing Manuscripts jointly organized during 21st September and 2nd October 2020
- Faculty Development Programme on “Python Programming” September 07- September 18, 2020
- Faculty Development Programme on “Cyber Security”, 05th - 11th October, 2020
- Faculty Development Programme on “Demystifying 5G RF ASICs”, 24 August to 04 September, 2020
- Five-day online FDP on DEEKSHARAMBH (Student Induction Program), 10-14 August 2020
- Three weeks international FDP on “Research Perspectives on AI, ML, Data Science & IoT”, 17th May to 5th June 2021.
- AICTE Sponsored Two Weeks Faculty Development Programme on “Machine Learning Techniques for imaging and healthcare with Python”,28-01.2021 to 10.02.2021
- Faculty Development Programme on Computer Vision and Image Processing: Research Issues, Innovation and Application, 20.01.2021 to 04.02.2021
- वेद-वेदान्तअध्ययन शोध संस्थानम संस्कृत भारती विदवातपरिषद , नवदेहली “पंचदशदीवासतिमीका अंतजारलीय राष्ट्रियसंघोषठी दिनांक 01.05.2021 तः15.05.2021 पर्यन्त “श्रीमद्भगवतव्याख्यानपरम्परा”
- Five Day Online workshop on ‘The Development of the Energy Internet of Things (eIoT) in Green Energy Infrastructure”, September 01-05, 2020
- Six days Online short Term Training Programme on Artificial Intelligence & Machine Learning From 15th to 20th February 2021
- “Recent Trends in Machine Learning” organized by the department of Computer Science and Engineering, held from December 10th to 12th , 2020
- Five day Faculty Development Program on “Contemporary Trends in science & Technology”, 5th April to 9th April 2021.
- “Recent Advances in Applied Sciences” held on 12-16 December 2020
- AICTE Sponsored Six Days Short Term Training Program Series - III on “Digital Farming Exploration with AI”, 30.11.2020 to 05 .12.2020

- Six Days Short Term Training Programme on “High Intense Course on Machine Learning with MATLAB”, sponsored by AICTE, 07th December to 12th December 2020
- 6-days AICTE sponsored Short Term Training Program on “Cybersecurity and Blockchain Technology”, 11th Jan. 2021 to 16th Jan. 2021
- Online Teachers Training Program (TTP-2021) on Machine Learning using Python”, 26th May -31st May 2021
- One Week STTP on “Blockchain Technologies and use cases Thread III”, 28th December 2020 to 2nd January 2021
- 6-days AICTE sponsored Short Term Training Program on “Cybersecurity and Blockchain Technology”, 11th Jan. 2021 to 16th Jan. 2021
- Six Days Online STTP on “Big Social Media Text Data Analytics”, 28th December, 2020 To 2nd January, 2021
- 5-days Faculty Development Program on “Cyber Security Awareness”, from 24th to 28th May, 2021.
- AICTE sponsored six days online Short Term Training Program (STTP) on “IoT based WSN using COOJA Network Simulator”, 07th December to 12th December 2020
- Workshop on “The Growing Role of IOT in Latest Technological Trends”, 22nd to 26th June 2020
- FDP on "Digital Circuit Implementation Using Zynq FPGA IC" from 2020-9-16 to 2020-9-20
- AICTE Sponsored One Week Online Short Term Training Program Phase - III on “Machine Learning and It’s Applications in Data Analytics”, 21st December to 26th December 2020.
- AICTE Sponsored One Week Online Short Term Training Program on “Design of Experiments (DOE) & Optimization Techniques”, 8th February 2021 to 13th February 2021
- One Week Faculty Development Programme on “ Evolution of IoT and It’s Real Time Applications”, 13.07.2020 to 17.07.2020
- International Faculty Development Programme on Trends in “Automative Technology”, 17.05.2021 - 22.05.2021 (6 days)
- FDP on "Internet of Things (IoT)", 2020-12-7 to 2020-12-11
- AICTE-ISTE approved Orientation/Refresher Programme on “Advanced VLSI Design Using Microwind”, 06.05.2021 to 12.05.2021
- AICTE - ISTE sponsored Online Induction / Refresher Program on “Machine Learning and Pattern Recognition (Phase-II)”, 07th to 12th November, 2020
- One Week Short Term Training Program in online mode on “Outcome Based Education: Critical Issues and Solution (A Case Study Approach): Implementation of Outcome Based Education (OBE) for Holistic Development”, 4th Jan 2021 to 9th Jan 2021
- AICTE Sponsored Online STTP on “Green Internet of Things (Phase II)”, 23rd to 28th November, 2020
- Participate in the webinar on “The next generation: 5G”, January 2, 2020.
- Participated in the webinar on “Next Generation of Wireless Antenna Technologies”, 31/05/2021.
- AICTE Sponsored One Week Online Short Term Training Program on “Python Based Machine Learning, Fundamentals to Application [Phase-II]”, 18th to 23rd JANUARY 2021.
- AICTE sponsored One week Online Short-Term Training Programme on “Research Avenues in Machine Learning Approaches for Pattern Recognition”, 24th to 29th August 2020.
- Attended Two Week Online Faculty Development Programme on “Insights into Intelligent Automation, Machine Learning and Data Science: Artificial Intelligence and Machine Learning”, 17th Nov 2020 to 29th Nov 2020
- Attended Two Week Online Faculty Development Programme on “Insights into Intelligent Automation, Machine Learning and Data Science: Data Science and Its Applications”, 7th Dec 2020 to 19th Dec 2020
- attending AICTE and ISTE sponsored one week online Induction/Refresher program from 15th to 21st April, 2021 on Mathematical Modelling
- AICTE sponsored Six Days online Short Term Training Program on “Internet of Things(IoT) with Blockchain-Applications and Challenges” (Series III) from 01.02.2021 to 06.02.2021
- 05 Days online Faculty Development Programme on “Innovative Research Prospects in Communication, Power system and Machine Learning Techniques”, 17.05.2021 to 21.05.2021
- five day faculty development program on “Online Tools for Teaching and Research”, 27-07-2020 to 31-07-2020

- One week online faculty Development Programme on “Recent Advances in Embedded Systems”, 07th to 11th August 2020.
- 03 Days TEQIP III Sponsored Faculty Development Programme on “Power Electronic Converter : Application and their Control”, 10th -12th August 2020
- Six Days STTP on Innovative Tools for mathematics, 3rd May 2021 to 8th May 2021.
- Six Days AICTE sponsored Short term training program on “AI Powered Solutions for Healthcare Innovations-Research Perspective”, 27th January 2021 to 1st February 2021.
- International FDP on “Multidisciplinary Research Innovation in Engineering , Science and Technology for Sustainable Development”, October 26- November 7, 2020.
- Seven Days Faculty Development Program on “Challenges in Cybercrime & Enforcement of Cyber Security”, 6th July to 12th July 2020.
- Participated in the online training programme on E-Training Programme on "Addressing Pandemic Risks at Gram Panchayat Level through Community Based Disaster Management Approach", 31st May 2021 to 04th June 2021.
- AICTE Sponsored six days Short Term Training Program on Python and its use in IoT, 8th -13th March 2021
- AICTE Sponsored six days Short Term Training Program on Python and its Application, 11-16 January, 2021
- Five days faculty Development program on “mathematical Tools”, 21 June 2021 to 25 June 2021
- participated in the Workshop on “AQUACULTURE AND FISHERIES: DEVELOPMENT AND SUSTAINABILITY”, 13th to 19th August, 2020 (Seven Days)
- Seven Days Faculty Development Programme On RESOURCE MOBILIZATION-LOCAL TO GLOBAL (Monday, 08.02.2021 to Sunday 14.02.2021)
- Six days short Term Training Program (STTP) on “Machine Learning and Its Application to Big Data”, 23-28 November 2020
- AICTE sponsored Six-days online short term training program on “Internet of Things(IoT) with Blockchain-Applications and Challenges” (Series 2), 04.01.2021 to 09.01.2021
- Six days short Term Training Program (STTP) on “Machine Learning and Its Application to Big Data”, 19-24 October 2020
- Participated & Completed Successfully AICTE Sponsored Online STTP Program on “ Recent Trends in CSE Phase - III ”, 22-03-2021 to 27-03-2021
- Attended an AICTE sponsored one week online Short Term Training Programme on "Applied Computing", November 09 - 13, 2020.
- AICTE Sponsored One week online STTP on “Cyber Security”, 14-19 Dec 2020.
- participated in one week online STTP under AICTE Quality Improvement Scheme (AQIS) on Recent Advances and Trends in Machine Learning: Theory and Application (Phase-2), JANUARY 11-16, 2021
- AICTE Sponsored six days online short term training program on “IoT and Machine Learning” , March 1st - 6th , 2021
- One week National Level online FDP organized by department of Computer Science and Engineering, 10 to 14 August 2020.
- Participated in Special online Talk on “Awareness on crime against women and children”, 10th August 2020.
- Participation in the One Day National Level Webinar on “EMOTIONAL INTELLIGENCE”, 18th August 2020.
- Participation in the One Day National Level Webinar on “Intersectionality: Reflections on Gender and Race”, 17th August 2020.
- Participation in the Two Day National Level e-FDP on “Recent trends in Mathematics”, 09th & 10th September 2020.
- Participation in the Two - Day National Level E-Workshop on “Understanding OBS Studio & Stream yard for E-Content Creation and Live Streaming”, 10th July & 11th July 2020.
- Participated in the webinar on “How to do a Systematic Research”, 25th July 2020.
- Participation in the International Webinar on Thermal Management for Electronics, 13th August 2020.
- Participated in the webinar on “Cyber Security Multidisciplinary Approach Present and Post COVID19”, 15.08.2020.
- One week Faculty Development Program on “Essentials for blended learning”, 13.07.2020 to 20.07.2020.
- Participated in the webinar on “Block chain Technology”, 29.08.2020.
- Participated in the Webinar on “AI-Exploring the Next Generation Convergence”, 08th August 2020.

- FDP on "Control Systems & Sensors Technology", 2020-9-16 to 2020-9-20
- AICTE Sponsored One Week STTP on Opportunities and Challenges in Smart City Implementation in IoT Era, 21st to 26th September 2020.
- Three Days webinar on "Recent Trends in Machine Learning and Deep Learning", August 19, 2020 to August 21, 2020
- Attended the TEQIP III Sponsored FDP on "Product Manufacturing and Analysis: Inculcation of Newer Methodologies", 9th -13th September 2020.
- Participation in one week Hands-on FDP on Artificial Intelligence Using Python, 14/9/2020 to 19/09/2020.
- 3 days FDP cum Training workshop on Post Disaster Need for Psycho Social Care, 27-29 January 2020.
- Participation in five day national level E-FDP on Challenges in Chemistry and Its Application Towards Energy Resources, 03rd August to 07th August 2020.
- Participated in two week FDP on- Deep Learning & Applications (Parallel Architectures), Aug 23- Sept 3, 2021
- Participated in two week FDP on- Data Science, 22 March- April 01, 2022
- Participated in two week FDP on- Electric Vehicle, 14 March- March 26, 2022
- Participated in two week FDP on- Natural Language Processing, 07 February- February 18, 2022

Call for invited talk, Speaker

- 3D Face Recognition from frontal and side profile View, *Fifth international conferences of Dynamic systems and Applications* May 30th –June 2nd June 2007, Morehouse College, Atlanta, Georgia, USA.
- 3D Face Modeling System, In the *Fifth World Congress of Nonlinear Analysts 2008* to be held during July 2 to July 9, 2008, on behalf of Global organizing Committee (GOC) and the International Federation of Nonlinear Analysts (IFNA) invites for 45 minute talk (face modeling and recognition), Florida, Melbourne.
- Smart Cities through Network Revolution in India: Impact and Challenges, *6th Annual World Congress of Info Tech-2019* May 10-11, 2019, BIT Congress Inc. Dalian Hi-Tech Industrial Zone, Najing, China.
- Brief Description of image based 3D face recognition methods, *World Education Day-2017* (Wed-2017) with the theme of "inheritance, innovation, cooperation and Development" September 27-29, 2017, Dalian China.
- 3D face recognition from 2D Images through projection, Asian Council of Science Editors (ACSE) 20-22 March 2018, Dubai UAE