

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Dr. Ajj Dildar Sayyad

Qualifications: M. E. (Instrumentation Engineering), Ph. D (IIT Bombay)

Department: Department of Electronics and Computer Engineering

Research Area: Robotics, Instrumentation and Automation, Image Processing

Address: Professor and Dean (Academics), Department of Electronics & Computer

Engineering, Maharashtra Institute of Technology, Chhatrapati Sambhajnagar*

Cell Phone No & Email ID: 9175902905 Email : sayyad_ajj@yahoo.com

Experience: 21 years

Profile in detail: <https://mit.asia/wp-content/uploads/2025/05/CV-Sayyad-Ajj-April-2025-MIT-Profile.pdf>

Publications: https://scholar.google.co.in/citations?user=g_JAcvAAAAAJ&hl=en

* After merging of **Marathwada Institute of Technology** in **Maharashtra Institute of Technology, Chhatrapati Sambhajnagar (an Autonomous Institute)** affiliated to Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajnagar.

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr.Yuvraj Krishnrao Kanse

Date of Birth: 15/07/1968

Qualifications: Ph.D. (Electronics Engineering)

Domain and Department: Power Electronics, E&TC Engineering

Research Area: Communication Engineering

Organization/Institute: Karmaveer Bhaurao Patil College of Engineering, Satara

Address: Sadar Bazar, Near RTO Office, Satara-451001

Cell Phone No & Email ID:9850502006, yuvraj.kanase@kbpcoes.edu.in

No of M. Tech & PhD Students Completed & Ongoing:15(M.Tech),07 (Ph.D.)

Publications in Scopus/SCI Journals only (Attach as hyperlink):

<https://scholar.google.com/citations?user=2fv1DBEAAAAJ&hl=en>

Summary of Research Domain:

Communication Engineering focuses on the **design, analysis, and optimization of systems** for transmitting information efficiently and reliably across various media (wireless, optical, satellite, etc.). Research areas include:

- **Wireless & Mobile Communications** (e.g., 5G/6G, MIMO, spectrum efficiency)
- **Signal Processing** (modulation, coding, channel estimation)
- **Networking** (IoT, SDN, routing, QoS)
- **Optical & Satellite Communications**
- **Information Theory & Coding**
- **Emerging Fields** like AI-driven networks, quantum communication, and THz technologies

Applications range from **cellular networks and satellite systems** to **IoT, autonomous vehicles, and smart cities**.




Name & Sign
Dr. Kanse Y.K.



Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Deepak Bhimrao Kadam. PVPIT Budhgaon

Date of Birth: 11/11/1969

Qualifications: PhD (Electronics Communication Engineering)

Domain and Department: Domain: Electronics and Telecommunication Engineering and Allied

Department: Department of Electronics and Telecommunication Engg

Research Area: Image and Signal Processing, Communication, Computer Applications Satellite & Mobile Communication

Organization/Institute: PVPIT, Budhgaon

Address: Rddhi Apts Flat no 2 Near Trikoni Bag, Sangli, District: Sangli, Maharashtra, Pin-416416.

Cell Phone No & Email ID: 9422042447, dskadam.etc@pvpitsangli.edu.in

No of M. Tech & PhD Students Completed & Ongoing: 25 students completed, 2 ongoing

Publications in Scopus/SCI Journals only (Attach as hyperlink):

<https://scholar.google.co.in/citations?user=wdpMcp4AAAAJ&hl=en>

Summary of Research Domain

I am Dr Deepak B Kadam completed PhD in Electronics Communication Engineering. I have completed my research in Biomedical engineering. I am having expertise in image and signal processing, Biomedical Imaging Satellite and Mobile Communication domain. I have guided many projects of UG and PG in Electronics and Telecommunication engineering. Those projects were dealing with image processing, signal processing, and computer applications such as data science applications. Even I have guided projects in communication and control system engineering domain. I have published my work in reputed journals. All above mentioned research activities are ongoing

Signature

Dr. D. B. Kadam,
9422042447.

Dr.Pravin Sahebrao Patil

Professor and Head (E&TC) S.S.V.P.S.B.S.D.College of Engineering,Dhule

Dr. Pravin Sahebrao Patil, who is a **Professor and Head of the Electronics & Telecommunication (E&TC) Department** at **S.S.V.P.S.B.S.D. College of Engineering, Dhule**. He holds a **Ph.D. in Electronics (2008)** and has been recognized as a **Ph.D. guide at KBCNMU University, Jalgaon** since **2017**. His research interests include **Image Processing, Biometrics, and Communication Engineering**.

Under his guidance, Eight Ph.D. scholars have registered and worked on diverse research topics:

- 1) **Deepali Ravindra Bhamare**, registered in 2020, studied *"Person Identification Using Periocular Biometrics."*

This Ph.D. thesis presents two novel approaches for person identification using periocular biometrics. The first method uses a **Hybrid Optimal Dense Capsule Network (DenseCapsNet 121)** during the COVID-19 pandemic, while the second integrates **Swin Transformer-assisted MobileNet with Graph Neural Network and Superglue Matching**. Both approaches utilize diverse and well-structured datasets, including CASIA-Iris, UBIPr, and various face and periocular image datasets. The models are benchmarked against existing architectures like AlexNet, VGG-16, and FaceNet, achieving high accuracy

- 2) **Pallavi Bhanudas Salunkhe**, registered in 2020, worked on *"Microscopic Image Based Disease Classification System."*

The research introduces optimized models for Breast Cancer and Malaria classification using histological images, employing triple-attention mechanisms, Vision Transformers, and capsule networks. Optimization techniques like Aquila Optimization Algorithm (AOA) and Optimal Fire Hawks (OFH) algorithm were used to enhance performance and hyperparameter tuning. The models achieved high accuracy and stage-wise classification, supporting precise clinical decisions.

- 3) **Machchhindra Jibhau Garde**, registered in 2020, conducted research on *"Multilevel Thresholding Segmentation Based on Horse Optimization Algorithm Using Machine Learning."*

This Ph.D. thesis proposes two advanced methodologies for multilevel thresholding in image segmentation. The first method integrates **Levy Horse-based SVM (LHSVM)** with **Renyi entropy** to achieve accurate and efficient segmentation of complex images. The second method uses an improved **Masi entropy-based approach** combined with **Reinforcement Learning-assisted Firefly-Oriented Multiverse Optimizer (RL-FF-MVO)**, starting with image enhancement via **Quantized Haar Wavelet Assisted Histogram Equalization (QuaWHe)**. Implemented using **MATLAB (R2021a)**, both

approaches significantly improve segmentation accuracy while reducing computational complexity.

- 4) **Rajendra Pandit Desale**, registered in 2020, focused on *"Skin Cancer Prediction Using Machine Learning."*

This Ph.D. thesis proposes two novel methodologies for skin cancer prediction using deep learning. The first method applies a hybrid A-DCCN-WAE model for early detection of skin tumors, enhanced by the A-WAE technique. The second method uses an improved Vision Transformer combined with a Hybrid Walsh Hadamard Karhunen Loeve expansion for accurate classification of eight skin disorder types. Both implementations, developed using Python, achieved significant improvements in accuracy and performance metrics.

- 5) **Sarang D. Patil**, registered in 2018, pursued the topic *"Intelligent Double Cluster Based Algorithm for Optimal Performance in Wireless Sensor Networks."*

the thesis, highlighting its novel approach that combines **DEEC (Distributed Energy-Efficient Clustering)** with **Particle Swarm Optimization (PSO)** and **Gravitational Search Algorithm (GSA)** to improve cluster head selection in wireless sensor networks. This integration effectively reduces energy consumption and extends network lifespan. The use of **fuzzy logic for data aggregation** further enhances decision-making, accuracy, and efficiency.

- 6) **Kiran H. Sonawane**, also registered in 2018, focused on *"Design and Development of Filtering Antenna for Bandwidth Enhancement."*

This Ph.D. thesis presents two innovative methodologies for bandwidth enhancement in antenna design. The first implementation involves designing a six-band microstrip rectangular slot antenna using a **Defective Ground Structure (DGS)** along with various shaped stubs (E-shaped, inverted E-shaped, and inverted T-shaped) to enhance return loss and impedance bandwidth. The second implementation introduces a **circularly polarized multilayer microstrip antenna** using **RT Duroid 5880** as the substrate to achieve broader bandwidth and compact size while maintaining high radiation efficiency. Both methodologies were implemented through **IE3D simulation software**, followed by **prototype fabrication and testing**, which demonstrated significant improvements in bandwidth and other performance metrics.

- 7) **Bhushan Vamanrao Patil**, registered in 2020, researched *"Metaheuristic Assisted Hybrid Deep Learning Model for Cotton Disease Prediction: An Internet of Things Based Application."*

This research presents an IoT-based cotton disease prediction model that combines deep learning and meta-heuristic techniques. High-resolution images of cotton leaves are processed using a Probabilistic Hybrid Wiener Filter and segmented with a Modified Dilated U-Net. Key features are extracted and optimized using BGW-DTO. A stacking ensemble of five deep learning models,

fine-tuned with Harris Whale Optimization, classifies diseases like Army Worms and Bacterial Blight with 99.66% accuracy. The system enables early and accurate detection of cotton leaf diseases, aiding farmers in timely decision-making.

- 8) **Rajesh N. Patil**, registered in 2018, worked on the topic "*A Robust Framework for Person Identification Using Multimodal Biometrics.*"

Research guidance has led to the publication of **patents**, reflecting the originality and practical relevance of the work. His scholars have published **research papers** in reputed, peer-reviewed journals, demonstrating strong research impact. Research contributions have also been featured in a **book chapter**, highlighting the depth and interdisciplinary value of the work. In addition, the scholars have actively participated in **international conferences**, presenting their work on global platforms and gaining recognition in the international research community.

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Devendra Laxman Bhuyar

Qualifications: 1. Ph.D. (Electronics Engineering), Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajnagar
2. M.E. (Digital Electronics), Sant Gadge Baba Amravati University, Amravati



Department: Electronics & Telecommunication Engg.

Research Area: Wireless Communications, Signal & Image Processing, Embedded Systems.

Address: B501, Department of Electronics and Computer Engineering, CSMSS Chh. Shahu College of Engineering, Chhatrapati Sambhajnagar - 431011

Cell Phone No & Email ID: 9158899351, hodetc@csmsseengg.org, devbhuyar@gmail.com

Experience: 21 years

Publications: International Journals: 12

International Conferences: 9

Research Publications (2024-25):

1. P. P. Kale, U. B. Shinde, **D. L. Bhuyar**, K. T. V. Reddy and H. B. Mahajan, "Human Body Bone Fracture Identification using Improved Deep Learning Model," *IEEE 2024 2nd DMIHER International Conference on Artificial Intelligence in Healthcare, Education and Industry (IDICAIEI)*, Wardha, India, Nov. 2024, pp. 1-5, doi: 10.1109/IDICAIEI61867.2024.10842715.
2. P. P. Kale, U. B. Shinde, S. S. Ali, **D. L. Bhuyar** and H. B. Mahajan, "Diabetic Retinopathy Diseases Classification from Fundus Images Using Deep Learning," *IEEE 2024 2nd International Conference on Emerging Trends in Engineering and Medical Sciences (ICETEMS)*, Nagpur, India, 2024, pp. 326-331, doi: 10.1109/ICETEMS64039.2024.10965079.
3. Rajesh Bhanudas Shinde, N. T. Markad, and **D. L. Bhuyar**, "Machine Learning Approaches for Soil Analysis: Enhancing Agricultural Productivity and Sustainability", *Springer - International Conference on Information Technology and Artificial Intelligence (ITAI 2025)*, Gurgoan, India, January 2025.
4. P. R. Wankhede, **D. L. Bhuyar**, Shrinivas R. Zanwar, Rohit Pawar, Mahendra R. Jadhav, Nisarg Gandhewar, Madhusudan B. Kulkarni, Manish Bhaiyya, "Artificial Intelligence in Non-invasive Human Health Diagnosis: A Comprehensive Review", *ACS Sensor*, Under Review

Patent Publications (2024-25):

1. AI Powered Intelligent Shirodhara Process To Promote Relaxation And Mental Clarity For Stress Management, Application Number: 202421057892, Published on 23/08/2024
2. PHYSIQUEAI: AI Powered Smart Physique Classifier System, Application Number: 202421055471, Published on 09/08/2024

AI based speech processing for psychiatric/ councillors for analysing patients

The application of Artificial Intelligence (AI) in healthcare has opened new possibilities for improving patient care, particularly in the domain of mental health and psychiatry. Among these advancements, AI-based speech processing has emerged as a valuable tool for assisting psychiatric professionals in the analysis and monitoring of their patients. Since human speech conveys not only linguistic content but also emotional, cognitive, and psychological cues through acoustic features such as pitch, tone, pace, and pauses, AI can harness these parameters to provide objective insights into a patient's mental state.

This paper proposes the integration of AI speech processing techniques for the early detection, diagnosis, and continuous monitoring of psychiatric disorders such as depression, anxiety, schizophrenia, bipolar disorder, and cognitive impairments. By employing speech-to-text conversion, Natural Language Processing (NLP), and acoustic feature extraction, AI systems can analyze both what patients say and how they say it. Features such as speaking rate, vocal intensity, pitch variability, and word choice patterns are examined using machine learning models to detect emotional states, assess mood fluctuations, and identify potential risks like suicidal ideation.

Additionally, AI-based speech analysis can aid in monitoring treatment outcomes by tracking changes in a patient's speech patterns over time, thereby providing psychiatrists with data-driven insights to support clinical decisions. The implementation of such systems requires careful consideration of ethical issues, including data privacy, informed consent, and model bias.

In conclusion, AI-powered speech processing offers a non-invasive, continuous, and efficient method for enhancing psychiatric assessments and patient care. Its potential to provide early warnings, support diagnosis, and monitor treatment response makes it a promising complement to traditional psychiatric practices.

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr Seema Suhas Patil

Date of Birth: 16 January 1983

Qualifications: Ph.D. Electronics Engineering

Domain and Department: Image processing & Computer Vision,
Electronics & Telecommunication engineering



Research Area: Computer Vision & Deep learning applications in Precision Agriculture

Organization/Institute: Ashokrao Mane Group of Institutions

Address: Vathar Tarf Vadgaon

Cell Phone No & Email ID: 9834104353, seema.aptil9@gmail.com

No of M. Tech & PhD Students Completed & Ongoing: M. Tech Completed: 07, ongoing: 10

Publications in Scopus/SCI Journals only (Attach as hyperlink):

- 1) <https://doi.org/10.1007/s40030-024-00829-x>
- 2) [DEVELOPMENT OF AN AUTOMATIC VARIABLE RATE SPRAYING SYSTEM BASED ON CANOPY CHARACTERIZATION USING ARTIFICIAL INTELLIGENCE | Agricultural Engineering International: CIGR Journal](#)
- 3) [Review on automatic variable-rate spraying systems based on orchard canopy characterization](#)
- 4) [Detection and Estimation of Tree Canopy using Deep Learning and Sensor Fusion | IEEE Conference Publication | IEEE Xplore](#)
- 5) [Development of Cost-Effective Precision Spraying Techniques Using Sensor Technology | IEEE Conference Publication | IEEE Xplore](#)
- 6) [Crop Detection and Weed Removal Agriculture Robot | IEEE Conference Publication | IEEE Xplore](#)
- 7) <https://drive.google.com/file/d/1lp1CEf7g5TUAbWgxUmDqNkmMqg8yulyG/view?usp=sharing>

Summary of Research Domain

"Development of an Automatic Variable Rate Spraying System Based on Canopy Characterization": Research involves the design and implementation of an Automatic Variable Rate Spraying System that utilizes canopy characterization techniques—such as sensor data fusion and image processing, Computer vision & Deep learning—to assess plant structure and density in real time. By dynamically adjusting spray rates according to canopy features, the system enhances precision in agrochemical application, minimizes chemical waste and environmental impact, and improves crop health and resource efficiency. This innovative approach supports smart farming practices and contributes to sustainable agricultural development.

The system architecture includes a combination of LiDAR, ultrasonic, and multispectral sensors mounted on a mobile spraying platform for continuous data acquisition. Deep Learning algorithms analyze canopy coverage, height, and foliage density to generate variable spray commands. Embedded controllers process the real-time data and adjust solenoid valves or nozzle actuators accordingly. Integration with GPS allows spatial mapping of application zones and ensures traceability for future agronomic decisions. This solution not only automates the spraying process but also introduces intelligence into precision agriculture systems through real-time decision-making.



Dr Seema Suhas Patil
Assistant Professor,
AMGOI Vathar

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Vijay Shrinath Patil

Date of Birth: 24/01/1975

Qualifications: Ph.D. (Electronics Engineering)

Domain and Department: Image Processing & CBIR

Electronics and Telecommunication Engineering

Research Area: Image Processing, Content-Based Image Retrieval (CBIR) and Machine learning.

Organization/Institute: R. C. Patel Institute of Technology

Address: Near Nimzari Naka, Shahada Road, Shirpur Dist. Dhule (M.S.), India - 425405

Cell Phone No & Email ID: 7588814275, vijayshri12@gmail.com

No of M. Tech & PhD Students Completed & Ongoing: No. of ME Completed: 07

Publications in Scopus/SCI Journals only (Attach as hyperlink):

1. <https://www.inderscienceonline.com/doi/abs/10.1504/IJIDS.2019.102952>
<https://ieeexplore.ieee.org/document/10099485>
2. <https://www.researchgate.net/publication/338252688> **Rotation Invariant Local Derivative Patterns for Image Retrieval and Indexing**
3. <https://ieeexplore.ieee.org/document/6745423?denied=>
4. <https://ieeexplore.ieee.org/document/6616261>
https://drive.google.com/file/d/1lrPpgsmf5LvtjeT2_Tqo_SsXb4ilAV4H/view

Summary of Research Domain

My research focuses on advanced Image Processing techniques and Content-Based Image Retrieval (CBIR) systems. I work on developing efficient algorithms for feature extraction, image classification, and similarity matching to improve the performance of image retrieval systems. My research contributions include the use of texture, color, and shape features, as well as deep learning-based approaches to enhance the accuracy and speed of CBIR systems. I am particularly interested in applications of CBIR in medical imaging, industrial defect detection, digital libraries, and surveillance systems.

Future directions of my research involve integrating artificial intelligence and machine learning techniques for intelligent image analysis and retrieval, optimizing computational efficiency, and improving user interaction in image search systems.

Name & Sign



Dr. Vijay Shrinath Patil



Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Vishal Sharad Hingmire

Date of Birth:09/10/1987

Qualifications:

1. Doctoral Degree:2023
2. Postgraduation Degree:2013
3. Graduation Degree:2010



Domain and Department: Electronics & Telecommunication Engineering

Research Area: Wireless Sensor Network, IoT, AI

Organization/Institute: Arvind Gavali College of Engineering, Satara

Address: At Panmalewadi Post Varye, Satara

Cell Phone No & Email ID: +918482875175 & vishal.hingmire@agce.edu.in

No of M. Tech & PhD Students Completed & Ongoing: Nil

Publications in Scopus/SCI Journals only (Attach as hyperlink):

[1.https://link.springer.com/article/10.1007/s11277-022-09580-7](https://link.springer.com/article/10.1007/s11277-022-09580-7)

[2.https://www.emerald.com/insight/content/doi/10.1108/IJPCC-09-2021-0229/full/html](https://www.emerald.com/insight/content/doi/10.1108/IJPCC-09-2021-0229/full/html)

[3.https://www.tandfonline.com/doi/abs/10.1080/01969722.2022.2146845](https://www.tandfonline.com/doi/abs/10.1080/01969722.2022.2146845)

[4.chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.ijrte.org/wp-content/uploads/papers/v8i6/F7400038620.pdf](chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.ijrte.org/wp-content/uploads/papers/v8i6/F7400038620.pdf)

[5.https://journal.esrgroups.org/jes/article/view/766](https://journal.esrgroups.org/jes/article/view/766)

Summary of Research Domain

Research interests span across advanced wireless communication systems, signal processing, and Internet of Things (IoT) technologies. Work primarily focuses on the development and optimization of next-generation communication protocols, MIMO systems, and low-power IoT networks for smart and sustainable applications. Contributed significantly to the fields of wireless sensor networks, embedded systems, and real-time data analytics, with a keen emphasis on their integration in industrial automation, healthcare monitoring, and smart agriculture. Interdisciplinary research approach bridges theoretical modeling with practical implementations, fostering innovation in intelligent cyber-physical systems and AI-driven communication frameworks.

Dr. Vishal Sharad Hingmire

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Prof. Dr. Jagadish Baburao Jadhav

Date of Birth: 26/06/1980

Qualifications: Ph.D., M.Tech

Domain and Department: Microwave Communication,

RF Transceiver Front-End Design, Signal and Image Processing, Electronics and Telecommunication Engineering (E&TC)



Research Area: Microwave Communication, RF Transceiver Front-End Design, Signal and Image Processing

Organization/Institute: R C Patel Institute of Technology, Shirpur, Dist- Dhule 425405

Address:

Cell Phone No & Email ID: 9422567334/ 7972257152 jagadish.rcpit@gmail.com

No of M. Tech & PhD Students Completed & Ongoing:

M. Tech (Completed):11

PhD Students Ongoing: 03

Publications in Scopus/SCI Journals

<https://scholar.google.com/citations?user=X0BV1tkAAAAJ&hl=en>

[http://dx.doi.org/10.1016/j.jesit.2016.10.007.](http://dx.doi.org/10.1016/j.jesit.2016.10.007)

<http://www.sciencedirect.com/science/article/pii/S2314717216300873>

<http://www.sciencedirect.com/science/article/pii/S1434841117303710>

Summary of Research Domain

Research Domains:

1. Microwave Communication:

Focus on the study and development of high-frequency communication systems, including the design of microwave antennas, filters, and waveguides for applications in satellite communication, radar, and wireless networks.

2. RF Transceiver Front-End Design:

Design and optimization of RF front-end circuits such as LNAs, mixers, and power amplifiers to improve performance in wireless systems, emphasizing low power, high efficiency, and signal integrity.

3. Signal and Image Processing:

Development of advanced algorithms for digital signal and image analysis, with applications in medical diagnostics, remote sensing, and intelligent systems. Research includes noise filtering, feature detection, compression, and AI integration.



Prof. Dr. J B Jadhav

Name & Sign

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area



Name: Dr. Mahesh Bhimsham Dembrani

Qualifications: AICTE QIP PG Certification (Artificial Intelligence) IIIT Vadodara, PhD (SGBAU Amravati), M. E. (SGBAU Amravati).

Currently: Advanced Certification in Data Science and AI (online weekend)

Department: Electronics & Telecommunication Engg.

Research Area: Signal & Image Processing, AIML, Medical Engineering and Data Analysis.

Address: Department Electronics and Telecommunication, R C Patel Institute of Technology Shirpur

Cell Phone No & Email ID: 9763710498, mahesh.dembrani@gmail.com

Experience : 20 years

Publications: International Journals: 22

International Conferences: 11



Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Kiransing Pratapsing Paradeshi

Date of Birth: 09/03/1969

Qualifications: PhD (Electronics Engineering)

Domain and Department: Domain: Electronics and Telecommunication Engineering and Allied

Department: Department of Electronics and computer science

Research Area: Image and Signal Processing, Communication, Computer Applications

Organization/Institute: PVPIT, Budhgaon

Address: 914, Paga Galli, Tasgaon, District: Sangli, Maharashtra, Pin-416312

Cell Phone No & Email ID: 8806513300, kpparadeshi.eln@pvpitsangli.edu.in

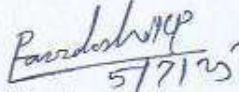
No of M. Tech & PhD Students Completed & Ongoing: 20 students completed, 2 ongoing

Publications in Scopus/SCI Journals only (Attach as hyperlink):

<https://www.scopus.com/authid/detail.uri?authorId=36096094800>

Summary of Research Domain

I am Dr Kiransing Pratapsing Paradeshi completed PhD in Electronics Engineering. I have completed my research in biomedical engineering. I am having expertise in image and signal processing domain. I have guided so many projects of UG and PG in Electronics engineering. Those projects were dealing with image processing, signal processing, and computer applications such as data science applications. Even I have guided projects in communication and control system engineering domain. I have published my work in reputed journals. All above mentioned research activities are ongoing


Signature

Dr. K.P. Paradeshi
PVPIT, Budhgaon
8806513300

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area



Name: Dr Tushar Hrishikesh Jaware

Qualifications: M.E (SGBAU, Amravati), PhD (SGBAU, Amravati)

Department: Electronics and Telecommunication Engineering

Research Area: Medical Image Processing, Machine Learning & Deep Learning, Signal Processing, IoT and Artificial Intelligence in Healthcare, Computer Networks and Internet Security.

- Advanced soft computing and deep learning approaches for segmentation and classification of MRI scans in neonates and premature infants.
- Development of CNN-based models for early and accurate detection of colon, lung, brain, and kidney cancers.
- Design of smart diagnostic systems and predictive analytics frameworks for real-time clinical decision support.
- Integration of AI, electronics, and biomedical technologies to solve real-world healthcare challenges.
- Research on intelligent, secure medical and industrial IoT systems, and internet security frameworks

Address: R C Patel Institute of Technology, Shirpur Dist Dhule (MS) 425405

Cell Phone No & Email ID: 7588001699 / 9822751293, tusharjaware@gmail.com

Experience: 20 years

Publications: International Journals: 50

International Conferences: 46

Patent Granted - 03(International)

Patent Published- 02 (National)

Industrial Design Registered -04

Copyright Registered -18

Edited Book-02

Book Chapter -12

Google Scholar: <https://scholar.google.com/citations?user=9wo9BBAAAAAJ&hl=en>

Scopus Author Profile: <https://www.scopus.com/authid/detail.uri?authorId=57191431294>

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Gayatri Shashikant Mirajkar

Date of Birth: 10 July 1980

Qualifications: PhD (Electronics Engineering), M.Tech (Electronics and Telecommunication Engineering), B. E. (Electronics Engineering)



Domain and Department: Domain: Digital Image Processing

Department: Electronics and Telecommunication Engineering

Research Area: Biomedical Image Analysis, SAR Image Processing, AI, ML

Organization/Institute: Arvind Gavali College of Engineering

Address: Behind Chaitanya Housing Society, 'SAMARTHCHAYA,' Azad Colony, Godoli, Shahunagar, Satara, Maharashtra, Pin: 415001

Cell Phone No & Email ID: Cell Phone No.: 9860361553 Email ID: gayatrimirajkar@gmail.com

No of M. Tech & PhD Students Completed & Ongoing: M.Tech Students: NIL

PhD students: NIL

Publications in Scopus/SCI Journals only (Attach as hyperlink):

<https://drive.google.com/file/d/1EGR29ncjpdYnSss9OCe3UEjs2zT9YU E/view?usp=drive link>

Summary of Research Domain

Biomedical Image Analysis:

Biomedical image analysis is the process of extracting and interpreting meaningful information from medical images to aid in diagnosis, treatment, and research. It is an interdisciplinary field which includes: biology, physics, medicine, and engineering. Images from different modalities such as MRI, CT, microscopic images, etc. are analyzed using techniques of image processing, pattern recognition and machine learning. This analysis helps healthcare professionals make more accurate diagnoses, predict disease progression, and optimize treatment strategies. Medical images to be analyzed contain a lot of information regarding the anatomical structure under investigation to reveal valid diagnosis and thereby helping doctors to choose adequate therapy. Doctors usually analyze these medical images manually through visual interpretation. But visual analysis of these images by human observers is limited due to variation in interpersonal interpretations, fatigue errors, surrounding disturbances and moreover this kind of analysis is purely subjective. On the other hand, automated analysis of these images using computers with suitable techniques favors the objective analysis by an expert and thereby improving the diagnostic confidence and accuracy of analysis.

SAR Image Processing:

SAR (Synthetic Aperture Radar) image processing involves transforming raw SAR data into usable imagery and information. This process includes various steps, from calibrating the data to correcting for geometric distortions and enhancing image features. The main steps in SAR image processing include calibration, speckle reduction, geometric correction, radiometric correction, radiometric correction, data enhancement, image analysis, feature extraction.



Name & Sign
Dr. G S Mirajkar

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Rajesh M. Autee

Date of Birth: 11.09.1970

Qualifications: PhD Electronics

Domain and Department: Electronics , Electronics and Telecommunication

Research Area: Power Electronics

Organization/Institute: Deogiri Institute of Engineering and management Studies

Address: Station road , Chh. Sambhajinagar (Formerly Aurangabad)

Cell Phone No & Email ID:9822670256.rajeshautee@dietms.org

No of M. Tech & PhD Students Completed & Ongoing: M.tech – 46 Nos. Guided and 01 On going, Phd - Nil

Publications in Scopus/SCI Journals only (Attach as hyperlink):

09 doc

Summary of Research Domain

The research work elaborates about Industrial drive, construction and working principles of operation of Switched Reluctance Motor, advantages and disadvantages of Switched Reluctance Motor Drives. The problems and research gaps were found using several IEEE journals, international journals, international conference papers, books and research reports based on research work. Accordingly as per literature review, the less attention even no attention paid for finding performance parameters using its Equivalent Circuit. Therefore, the literature felt the need of developing the innovative but simple process for analysis of Dynamic behaviour of the Switched Reluctance Motor. Hence efforts are driven towards developing the models which includes study of Equivalent Circuit for Steady State, tools of performance analysis for Dynamic Behaviour and Transient Analysis of the Switched Reluctance Motor with its salient features. The research further gives the significance of Equivalent Circuit for exact physical interpretation and mathematical modelling and its analysis. The innovative measurement method is developed for determination of flux linkages and inductances of Switched Reluctance Motor. A novel Dynamic model is presented with various mathematical equations. The Pspice software is used with its advance tool called 'Analog Behaviour Modelling' (ABM) technique for simulation of the Dynamic model of Equivalent Circuit. The different modules are presented for simulation of dynamic analysis. My



research also suggests the future work on Switched Reluctance Motor and its Drives for increase in the industrial applications.

Name & Sign

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Bakale Ravindra Subhash

Date of Birth: 01/05/1968

Qualifications: PhD, M Tech (EDT), BE (E&TC)

Domain and Department: MIMO Antenna and E&TC Department

Research Area: Design of Ultra wideband MIMO antenna with improved isolation.



Organization/Institute: M B E Society's College of Engineering, Ambajogai, 431517

Address: Yeshwantrao Chavan Chowk, Morewadi, Ambajogai, District: Beed

Cell Phone No & Email ID: 8806662550 and ravindra.bakle@gmail.com.

No of M. Tech & PhD Students Completed & Ongoing: M Tech students completed – 04 and ongoing – 00, PhD students- 00

Publications in Scopus/SCI Journals **only (Attach as hyperlink):**

1. <https://www.jpier.org/issues/volume.html?paper=22062202>
2. <https://www.researchgate.net/publication/363215213> Circularly Polarized Planar Antenna Array with High Isolation for WLAN Application
3. https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=%E2%80%A2%09Karad%2C+K.V.%2C+Hendre%2C+V.S.%2C+Rajput%2C+J.L.%2C+Bakale%2C+R.S.%2C+et+al.+A+SAR+analysis+of+hexagonal+shaped+UWB+antenna+for+healthcare+applications.+J+Wireless+Com+Network+2024%2C+72+%282024%29.+https%3A%2F%2Fdoi.org%2F10.1186%2Fs13638-024-02405-0+&btnG=
4. <https://www.internationaljournalsrsg.org/IJECE/paper-details?id=792>
5. https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=%E2%80%A2%09Bakale%2C+R.S.%2C+Nandgaonkar%2C+A.B.+and+Deosarkar%2C+S.B.%2C+2020%2C+October.+Isolation+Enhancement+Techniques+for+MIMO+Antenna%3A+A+Review.+In+2020+International+Conference+on+Smart+Innovations+in+Design%2C+Environment%2C+Management%2C+Planning%2C+and+Computing+%28ICSIDEMPC%29+%28pp.+57-62%29.+IEEE.&btnG=

Summary of Research Domain

Research work comprises the design of a MIMO antenna with improved isolation and low Correlation. Details are discussed as follows.

1. A paper has been published on the study of various isolation techniques for the design of MIMO antennas so that isolation of more than 20 dB is achieved over the impedance bandwidth.

2. A paper is published on the design of a circularly polarised MIMO antenna with low coupling for WLAN applications.
3. Design of ultra-wideband MIMO antenna with high isolation and low correlation is published in a PIERS journal paper.
4. Low low-coupling MIMO antenna for multiband applications is published in a paper.
5. A SAR analysis of a hexagonal-shaped antenna for health care applications is published in the EURASIP Journal.
6. 1x4 and 4x4 MIMO antennas with low coupling are designed for Massive MIMO base station applications.



Name & Sign

Dr. Bakale Ravindra Subhash

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area



Name: Dr. Shrinivas R. Zanwar

Qualifications: M. E. (JNEC, Dr. BAMU), PhD (Dr BAMU)

Department: Electronics & Telecommunication Engg.

Research Area: Signal & Image Processing, Embedded System.

Address: Department of Artificial Intelligence & Data Science, CSMSS, Chh. Shahu College of Engineering, Chhatrapati Sambhajinagar

Cell Phone No & Email ID: 9766725039, shrinivas.zanwar@gmail.com

Experience : 15 years

Publications: International Journals: 07

International Conferences: 05

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Dr. Shaikh Shoaib Arif

Qualifications: B.E., M.Tech, Ph.D (DBAMU, Chh.Sambhajinagar)

Department: Engineering & Technology(Electronics Engineering)

Research Area: Electronics, VLSI, Artificial Intelligence

Address: Deogiri Institute of Engineering & Management Studies ,Deogiri Campus, Near VITS Hotel, Railway Station Road Chh.Sambhajinagar

Cell Phone No & Email ID:7588644664 Email : shaikhshoaibarif@gmail.com

Experience : 15 years

Publications:

1. https://scholar.google.com/citations?view_op=list_works&hl=id&user=z7N13ncAAAAJ
2. <https://www.scopus.com/authid/detail.uri?authorId=57208567329>

Summary

- Working as a H.O.D. in C.S.E. (Artificial Intelligence & Machine Learning) Department DIEMS since 2022
- H.O.D. and Software Trainer with 10 Years' experience.
- Completed Ph.D. in VHDL Xilinx Software in Feb. 2019, M. tech in VLSI in Dec. 2012, B.E. in Electronics Aug. 2010.
- 16 Years working experience in training & teaching Engineering students.
- 06 years Post Ph.D. Teaching Experience in D.I.E.M.S.
- 11 research papers published in International Journals
- 04 research papers published in Scopus Journal
- 01 Australian patent Published

Software Training Highlights

- Completed Coursera Certification on Data Scientist Toolkit.
- Completed Coursera Certification on Python.
- Completed IIT Bombay Certification on Python 3.4.3.
- Completed Training on Data Scientist from 360 DigitMG.
- Completed Training on Tableau from 360 DigitMG.
- Completed Training on Power BI from 360 DigitMG.
- Completed Training on Artificial Intelligence from 360 DigitMG.

Formatted: Font: (Default) Times New Roman, 14 pt, Not Bold

Formatted: Font: (Default) Times New Roman, 14 pt, Not Bold

Formatted: Font: (Default) Times New Roman, 14 pt, Not Bold

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area



Name: Dr. Mrs. Kalpana P. Paithane (Jondhale)

Qualifications: Ph.D. (SGGSIE&T, Nanded)

Department: Department of Electronics & Telecommunication Engineering

Research Area: Digital Image Processing, Pattern Recognition and Computer Vision

Address: MGM's College of Engineering, Nanded - 431605

Cell Phone No & Email ID: 9850704354 **Email :** jondhale_kc@mgmcen.ac.in

Experience : 26 years

Publications: <https://scholar.google.com/citations?user=cwqr2r4AAAAJ>

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Vaijanath V. Yerigeri

Date of Birth: 01/08/1972

Qualifications: Ph.D

Domain and Department: Electronics Engineering

Research Area: Signal Processing

Organization/Institute: M. B. E. Society's College of Engineering, Ambajogai

Address: Morewadi, Ambajogai-431517. District: Beed.

Cell Phone No & Email ID: 8806660252 & vaijanatha.y@gmail.com

No of M. Tech & PhD Students Completed & Ongoing: 20 M. Tech students, Ph. D (Nil)

Publications in Scopus/SCI Journals **only (Attach as hyperlink): 7**

1. <https://doi.org/10.14445/23488549/IJECE-V12I4P103>
2. <https://doi.org/10.1155/je/5348555>
3. <https://doi.org/10.14445/23488360/IJME-V11I10P102>
4. <https://doi.org/10.1016/j.cogsys.2020.10.001>
5. <https://link.springer.com/book/10.1007/978-981-15-1084-7?page=2>
6. <https://link.springer.com/article/10.1007/s10772-019-09631-8>
7. https://www.researchgate.net/publication/364027310_IoT_Applications_on_Secure_Smart_System

Summary of Research Domain

The present lifestyle of homo sapiens is stressful, due to which they suffer from psychogenic pain. Psychologists warn humans about algopsychalia's destructive form, i.e. stress. Excessive stress can trigger suicidal tendencies in a person. Stress and emotions are highly co-related; therefore, the research was on efficient detection of stress-related emotions using speech to identify the level of stress and intimacy prior to the threat of suicidal ideations. The work explores cepstral coefficient-based perceptual features like Mel Frequency, Inverted Mel frequency, Gammatone Wavelet, Gammatone Frequency, Perceptual Linear Predictive, Bark Frequency and Revised Perceptual Linear Prediction. R-CNN learning reduces computational costs. The performance of a system is analyzed with the help of a benchmark dataset specific to stress. Comparative analysis to demonstrate improvement in Speech Emotion Detection (SED) performance.



Name & Sign
(Dr. Vaijanath V. Yerigeri)



Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr.Prashant Sopanrao Kolhe

Date of Birth: 21.09.1968

Qualifications: PhD

Domain and Department: Electronics and Telecommunication

Research Area: Image processing and Communication related

Organization/Institute: TPCT'S College of Engineering,Dharashiv.

Address: TPCT'S College of Engineering, Tuljapur Road, Dharashiv.

Cell Phone No & Email ID: 9284818351 & prashantsk68@gmail.com

No of M. Tech & PhD Students Completed & Ongoing: M Tech 20 students completed
Ongoing 04

Publications in Scopus/SCI Journals only (Attach as hyperlink):

<https://www.scopus.com/authid/detail.uri?authorId=58536211100>

Summary of Research Domain

Deep learning is a subset of machine learning that employs computational models inspired by human brain deep learning. The neural network is made up of several layers. Convolutional layers have such a hierarchical framework that makes them particularly well-suited to studying information hierarchies. A single layer can calculate a highly complicated function, however artificial intelligence is required to extract complex features. We selected machine learning for handwritten Marathi character recognition because artificial intelligence utilizes social hierarchies and may be utilized successfully with picture data. Because of method itself works features can be extracted and will discover all potential features that might be utilized to obtain the classification model's best performance, the implement is not provided as an input with already various classifiers in deep learning. The program is then fed a pre-processed picture as input. Different classification methods exist in neural networks, including the Recurrent Neural Network (RNN), Back Propagation Neural Network (BPNN), Convolutional Neural Network (CNN), Deep Convolutional Neural Network (DCNN), Deep Belief Network (DBF), Deep Neural Network (DNN), and so on.

Communication Based research

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Priti Subramaniam

Date of Birth: 20/11/1973

Qualifications: Ph.D (Electronics Engineering)

Domain and Department: Electronics & Telecommunication and Computer Science & Engineering.

Research Area: Wireless Communication, Cellular Networks, Data Communication, Optimisation.

Organization/Institute: Hindi Seva Mandal's Shri Sant Gadge Baba College of Engineering & Technology Bhusawal.

Address: Pankee Plot Number Two, Zonal Training Center, Bhusawal.

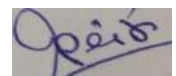
Cell Phone No & Email ID: 9511248309/9423837494 and Email Id: pritikanna559@gmail.com

No of M. Tech & PhD Students Completed & Ongoing: M.Tech Students Completed = 31, Ongoing =1

Publications in Scopus/SCI Journals: <https://www.scopus.com/authid/detail.uri?authorId=57198438092>

Summary of Research Domain:

The research focuses on enhancing the Bit Error Rate (BER) performance of Orthogonal Frequency Division Multiplexing systems through the optimization of adaptive coding techniques. OFDM is widely used in modern wireless communication due to its robustness against multipath fading and high spectral efficiency. However, its performance can be significantly affected by channel conditions, leading to increased BER. The research explores various error-correcting codes, such as convolutional codes and LDPC codes, integrated with adaptive modulation and coding (AMC) techniques. The findings aim to provide insights into the optimal configuration of adaptive coding techniques to enhance the reliability and efficiency of OFDM-based communication systems, making them more resilient to channel impairments and improving overall system performance. Research in optimization aims to develop efficient algorithms and frameworks to solve complex decision-making problems across diverse domains. It continually evolves with advancements in computational power, mathematical theory, and interdisciplinary applications, driving innovation in technology, industry, and science.



Dr. Priti Subramaniam



Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area



Name: Dr. R.K.Krishna

Qualifications: B.E,M.Tech,Ph.D(Electronics and Communication Engg.)

Department: Electronics and Communication Engg.

Institute Name: Rajiv Gandhi College of Engineering, Research and Technology,Chandrapur

Research Area: Wireless Sensor Networks

Cell Phone No & Email ID: 9420445376.

Krishnaravinutala1@gmail.com,rkrishna40@rediffmail.com

Experience: 33 years UG experience and 18 years PG Experience.

Number of Publications

National Conferences	International Conferences	International Journals	Total
15	25	84	124

Number of Citations

Citations	h-index	i10-index	Books	Patents Published	Awards
450	10	10	03	01	01

Area of Research: Wireless Sensor Networks,Lifetime Improvement through Various techniques such as Clustering and Routing,Energy Efficient mobility, Energy conservation Techniques specialization in Bio inspired Techniques,Buliding of Energy Efficient Communication Networks.

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr Ravindra Daga Badgujar

Qualifications: M.E (SGBAU, Amravati), PhD (KBC NMU, Jalgaon)

Department: Electronics and Telecommunication Engineering

Research Area: Medical Image Processing, Machine Learning & Deep Learning, Digital Image Processing, Artificial Intelligence in Healthcare.

Address: R C Patel Institute of Technology, Shirpur Dist Dhule (MS) 425405

Cell Phone No & Email ID: 8668688291/ 9404751837, **Email :** ravindrabadgujar12683@gmail.com

Experience: 20 years

Publications: Google Scholar: <https://scholar.google.com/citations?user=2N2YNGUAAAAJ&hl=en>

Scopus Author Profile: <https://www.scopus.com/authid/detail.uri?authorId=57201700956>





One-Page Summary of Research Activities (Completed / In Progress)

Dr. Rajesh M. Autee, Professor & Head,
Deogiri Institute of Engineering and Management Studies, Chh. Sam Chh. Sambhajinagar

I have over **28 years of experience** in academia, research, and administration. My expertise spans **Image Processing, Biomedical Health care, Power Electronics, Communication Engineering, Antenna and Wave Propagation, Electrical Systems** with applications in Industry as well as domestic area

Ph.D. Supervision: At present Nil

Key Publications & Impact:

- **Google Scholar & AD Scientific Index** report an **h-index of 5**, an **i10-index of 3**, and over **87 citations**.
- **Notable journal articles include:**
 - **R.M.Autee et.al.** Real time two way communication approach for hearing impaired and dumb person based on image processing, IEEE,
 - **R.M.Autee et.al.** EEG based brain controlled wheelchair for physically challenged people, International Journal of Innovative Research in Computer and Communication.
 - **R.M.Autee et.al.** Automated blood bank system using Raspberry PI, 2018 2nd International Conference on Inventive Systems and Control
 - **R.M.Autee et.al** Design, Simulation, and Fabrication of Power optimized MEMS Multilayer Semiconductor Sensor for SO₂ Sensing, IEEE Journal of Microelectromechanical Systems. manuscript ID is JMEMS-2024-0123-OM.R1.
- **Multiple IEEE and Springer conference papers on:**
 - Design and Development of Spice-Assisted Hybrid Driver Circuit for Measurement of 4 KW (5.5 HP) Switched Reluctance Motor, YMER International Journal, Volume 22 Issue 01, DOI : 10.37896/YMER22.01/C2, 24 January, 2023 ISSN: 0044-0477
 - Dynamic Equivalent Circuit for 4 KW Switched Reluctance Motor, 4th International Conference on Computing in Engineering and Technology (ICCET), 10th and 11th January 2019 (Springer /TEQIP Twinning Programme Program) Aurangabad

Patent: 05 Nos (03 granted, 01 Published, 01 Filed)

- IoT and ML enabled Energy Efficient Advance 6G Communication Network, Indian Utility Patent, Appl.No.: 202541038300 A Status: **Published (16/05/2025)**
- AI based “AI based Device for HR Operations” Indian Design Patent File No.: 442488, 30/12/2024, Status : **Granted (06.02.2025)**
- AI based “AI based Robotic Display for Interactive Marketing”, Indian Design Patent File No.: 442489, 30/12/2024, Status: **Granted (17.3.2025)**
- Design of a modular VR Headset , Indian Design Patent File No.: 438683, 27/12/2024, Status: Filed
- “A System and Method for Measuring Concrete Strength” , Indian Utility Patent, E-3/4758/2020/MUM, 202021015024 Status : **Granted**

Funded Projects & Leadership Roles:

- **Principal Investigator:** Sponsored project on Industrial Spring Measurement System, Shiv Springs Ltd.,

Ongoing Research:

Eggs Incubator Design and development for Indian farmer (Sponsored, in process)

Institutional Roles & Capacity Building:

- Coordinator for Accreditation of NBA, NIRF, BOS, Virtual Laboratory IQAC

Summary:

I am committed to advancing research excellence, mentoring scholars, and integrating novel computing paradigms for practical and societal impact. My goal is to continue strengthening DBATU’s position in **healthcare research, Indian Farming research, Industrial and domestic development research with latest technologies.**

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Bakale Ravindra Subhash

Date of Birth: 01/05/1968

Qualifications: PhD, M Tech (EDT), BE (E&TC)

Domain and Department: MIMO Antenna and E&TC Department

Research Area: Design of Ultra wideband MIMO antenna with improved isolation.



Organization/Institute: M B E Society's College of Engineering, Ambajogai, 431517

Address: Yeshwantrao Chavan Chowk, Morewadi, Ambajogai, District: Beed

Cell Phone No & Email ID: 8806662550 and ravindra.bakle@gmail.com.

No of M. Tech & PhD Students Completed & Ongoing: M Tech students completed – 04 and ongoing – 00, PhD students- 00

Publications in Scopus/SCI Journals **only (Attach as hyperlink):**

1. <https://www.jpier.org/issues/volume.html?paper=22062202>
2. <https://www.researchgate.net/publication/363215213> Circularly Polarized Planar Antenna Array with High Isolation for WLAN Application
3. https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=%E2%80%A2%09Karad%2C+K.V.%2C+Hendre%2C+V.S.%2C+Rajput%2C+J.L.%2C+Bakale%2C+R.S.%2C+et+al.+A+SAR+analysis+of+hexagonal+shaped+UWB+antenna+for+healthcare+applications.+J+Wireless+Com+Network+2024%2C+72+%282024%29.+https%3A%2F%2Fdoi.org%2F10.1186%2Fs13638-024-02405-0+&btnG=
4. <https://www.internationaljournalsrsg.org/IJECE/paper-details?id=792>
5. https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=%E2%80%A2%09Bakale%2C+R.S.%2C+Nandgaonkar%2C+A.B.+and+Deosarkar%2C+S.B.%2C+2020%2C+October.+Isolation+Enhancement+Techniques+for+MIMO+Antenna%3A+A+Review.+In+2020+International+Conference+on+Smart+Innovations+in+Design%2C+Environment%2C+Management%2C+Planning%2C+and+Computing+%28ICSIDEMPC%29+%28pp.+57-62%29.+IEEE.&btnG=

Name & Sign

Dr. Bakale Ravindra Subhash

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Prof. Dr. Jagadish Baburao Jadhav

Date of Birth: 26/06/1980

Qualifications: Ph.D., M.Tech

Domain and Department: Microwave Communication,

RF Transceiver Front-End Design, Signal and Image Processing, Electronics and Telecommunication Engineering (E&TC)



Research Area: Microwave Communication and RF Transceiver Front-End Design for 5G/6G wireless and satellite systems; Signal and Image Processing with AI/ML integration for intelligent applications in medical diagnostics, remote sensing, and automation.

Organization/Institute: R C Patel Institute of Technology, Shirpur, Dist- Dhule 425405

Address:

Cell Phone No & Email ID: 9422567334/ 7972257152 jagadish.rcpit@gmail.com

No of M. Tech & PhD Students Completed & Ongoing:

M. Tech (Completed):11

PhD Students Ongoing: 03

Publications in Scopus/SCI Journals

<https://scholar.google.com/citations?user=X0BV1tkAAAAJ&hl=en>

[http://dx.doi.org/10.1016/j.jesit.2016.10.007.](http://dx.doi.org/10.1016/j.jesit.2016.10.007)

<http://www.sciencedirect.com/science/article/pii/S2314717216300873>

<http://www.sciencedirect.com/science/article/pii/S1434841117303710>

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Dr. Sagar Arun More

Qualifications: M. E, Ph. D (KBCNMU, Jalgaon)

Department: Department of Electronics Engineering

Research Area: Image & Video Processing, Soft Computing.

Address: Associate Professor, Department of Electronics Engineering

SSVPS's Bapusaheb Shivajirao Deore College of Engineering, Dhule.

Cell Phone No & Email ID: 8275104251, 8390024009 Email: sagar.more27@gmail.com

Experience : 25 years

Publications: <https://scholar.google.com/citations?user=i34YnQwAAAAJ&hl=en>

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Dr. Sudhir Gangadharrao Akojwar

Qualifications: M. Tech, Ph. D (VNIT, Nagpur)

Department: Department of Mechatronics Engineering

Designation: Associate Professor, Instrumentation Engineering.

Research Area: Wireless Sensor Networks, Embedded Systems Design, Image Processing, Sensing and Data Acquisition systems Design.

Address: Associate Professor and Head, Department of Mechatronics Engineering

Loknete Shyamrao Peje, Government College of Engineering, Ratnagiri.

Cell Phone No: 9422835577 Email : sudhirakojwar@gmail.com

Experience : 35+ years

Publications: 77 Publications, 7 candidates awarded Ph. D. degree.

Google scholar link : <https://scholar.google.com/citations?user=cyV4t1cAAAAJ&hl=en>