

# Dr. Babasaheb Ambedkar Technological University Lonere Raigad

## One Page Summary of Research Area

Name: Dr Banoth Meghya Nayak

Date of Birth: 4/3/1986

Qualifications: PhD



Domain and Department: Electrical Engineering

Research Area: Electrical Drives, Power Electronics, Electrical Vehicle

Organization/Institute: Arvind Gavali College of Engineering Satara

Address: Gat no 247 Panmalewadi Po Varye Tal & Dist Satara

Cell Phone No & Email ID: 7775966294 & meghya.nayak@agce.edu.in

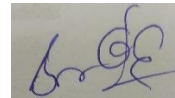
No of M. Tech & PhD Students Completed & Ongoing: Nil

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

<https://www.scopus.com/authid/detail.uri?authorId=58016759300>

### **Summary of Research Domain**

Dr. B. M. Nayak currently working in Arvind Gavali College of Engineering as an Associate Professor, in the Department of Electrical Engineering. He has done Doctorate from JJTU, Rajasthan in Electrical Engineering. Completed M.Tech. from Adams College of Engineering, Telangana in Electrical Engineering, and B. Tech. from MITS College of Engineering in Electrical Engineering. He has published many papers in National and International journals. His area of interest includes Electrical Drives, Power Electronics, and EV. He has more than 13 years of teaching experience.



Dr Banoth Meghya Nayak

# Dr. Babasaheb Ambedkar Technological University Lonere Raigad

## One Page Summary of Research Area



**Name:** Dr. Asha Ashok Gaikwad

**Qualification:** PhD in Electrical Engineering (Dr. BAMU, Chh. Sambhajinagar)

**Department:** Department of Electrical Engineering

**Research Area:** Electrical Power system, Electrical Energy harvesting, Magnetic Material

**Address:** P.E.S. college of Engineering Chh. Sambhajinagar. Maharashtra 431001

**Cell Phone No & Email ID:** 9422204505      **Email:** mrsashagaikwad@gmail.com

**Experience:** 19 years

**Publications:** <https://scholar.google.com/citations?user=oldKrT4AAAAJ&hl=en>

# Dr. Babasaheb Ambedkar Technological University Lonere Raigad

## One Page Summary of Research Area



**Name: Dr. Kawita D Thakur**

**Date of Birth: 11/03/1978**

**Qualifications: PhD**

**Domain and Department: Pharmacy- Electrical Engineering**

**Research Area: Power System, Protection, Stability, Smart Grid, Nano Grid,  
Power Electronics, Artificial Intelligence and Machine Learning**

**Address: Ground floor, Siddhivinayak Apartment , Gurudev Nagar , Near Hardik colony,  
Amravati -444604, Maharashtra**

**Cell Phone No & Email ID: 9096621113 , kawitadthakur@gmail.com**

**No of M. Tech & PhD Students Completed & Ongoing: --02**

**Publications in Scopus/SCI Journals:**

<https://scholar.google.com/citations?hl=en&user=gu3S8K0AAAAJ>

**(Attach as hyperlink):**

**[Summary of Research Domain](#)**

**Complete Biodata and Publications**

<https://sites.google.com/view/drkawitathakurrajput/education-membership?authuser=0>

**Name & Sign**

# Dr. Babasaheb Ambedkar Technological University LonereRaigad

## One Page Summary of Research Area

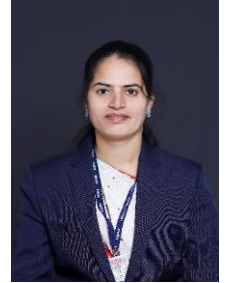
Name: Dr. Vinaya K Thombare (Chavan)

Date of Birth: 19/03/1991

Qualifications: Ph.D.

Domain and Department: Electrical Engineering

Research Area: Renewable Energy System (Solar PV system), power system,  
power electronics application to power system



Organization/Institute: Ashokrao Mane Group of Institution Vathar Address: A/P

Wategaon, Tal-walwa, Dist- Sangli

Cell Phone No & Email ID:9404406775, chavanvinaya19@gmail.com No of M. Tech & PhD Students

Completed & Ongoing: 0

### [Publications in Scopus/SCI Journals](#)

### [Summary of Research Domain](#)

My research focuses on improving the performance, reliability, and efficiency of electrical energy systems through advanced strategies in **photovoltaic (PV) array configuration** and **power system optimization**. I have worked extensively on the design and implementation of **static PV array reconfiguration techniques** to mitigate the effects of **partial shading**, thereby enhancing power output and reducing mismatch losses. This domain includes the development of **intelligent algorithms and combinatorial configurations**, validated through both **simulation and hardware experimentation**. Furthermore, I have explored the role of **series compensation** in power systems to improve **load flow characteristics, voltage stability, and transmission efficiency**.

My work integrates **power electronics and power system engineering** to contribute toward the development of **efficient, resilient, and intelligent renewable energy infrastructures**, particularly within **solar PV systems**. This area supports the advancement of **smart grid technologies** and aligns with global priorities in **sustainable energy development**.

A handwritten signature in blue ink, appearing to read 'Thombare', on a light-colored background.

Dr. Vinaya K Thombare (Chavan)

**Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad**

**One Page Summary of Research Area**

Name: **Dr. Hemant Tukaram Ingale**

Date of Birth: **01 Jan 1977**

Qualifications: **PhD (Electronics Engineering)**

Domain and Department: **Engineering, Electronics and Telecommunication Engineering**

Research Area: **Computer Vision, Signal & Image Processing**

Organization/Institute: **Godavari College of Engineering, Jalgaon**

Address: **p-51, Additional MIDC, Bhusawal Road, Jalgaon**

Cell Phone No & Email ID: **9730475913, hetui@rediffmail.com**

M. Tech & PhD Students No of Completed & Ongoing: **15 M.Tech Students, 00 PhD Students**

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

<b>Sr. No</b>	<b>Title of Paper</b>	<b>Publication</b>	<b>Authors</b>
1	Machine Learning for Crowd Analysis and Classification	Jundishapur Journal of Microbiology, Vol. 15, No.1 (Jan 2022) <a href="http://jjmicrobiol.com/index.php/jjm/article/view/187">http://jjmicrobiol.com/index.php/jjm/article/view/187</a>	Hemant T. Ingale, Shekhar S. Suralkar, Anil J. Patil and Vaishali Bhagwat Patil
2	lot capable mechanism for crowd analysis.	Springer, Advances in Intelligent Systems and Computing ((AISC, volume 1162)) <a href="https://link.springer.com/chapter/10.1007/978-981-15-4851-2_7">https://link.springer.com/chapter/10.1007/978-981-15-4851-2_7</a>	Kanchan R. Mangrulkar, H. T. Ingale, S. K. Chaudhari & Anil J. Patil
3	Deep learning for crowd image classification for images captured under varying climatic and lighting condition	IEEE International <a href="https://ieeexplore.ieee.org/document/10037341">https://ieeexplore.ieee.org/document/10037341</a>	Hemant T. Ingale, Shekhar S. Suralkar, Anil J. Patil

4	Novel Approach of Hybrid Switching System using Combined SPC & VLSI	Academy Publisher, International Journal of recent trends in engineering, Vol 2, No. 5 1797-9617 From 303 To 310 <a href="https://www.semanticscholar.org/paper/Novel-Approach-of-Hybrid-Switching-System-using-SPC-Chaudhari-Ingale/9905b768bf369a4a640a75af8dc28638dfb9ba14">https://www.semanticscholar.org/paper/Novel-Approach-of-Hybrid-Switching-System-using-SPC-Chaudhari-Ingale/9905b768bf369a4a640a75af8dc28638dfb9ba14</a>	Smita K Chaudhari, Hemant T Ingale, K. P. Rane
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**Summary of Research Domain :**

The Research domain mainly focused on Computer Vision techniques. The best possible method for advanced crowd analysis is developed.

Machine learning algorithm for crowd analysis and classification is developed.

The Deep Learning algorithm for Crowd Image Classification for Images Captured under Varying Climatic and Lighting Conditions is also developed which yields remarkable results.

Currently working on IOT enabled Computer Vision techniques using Artificial Intelligence.

Dr. Hemant T. Ingale

**Name & Sign**

# Dr. Babasaheb Ambedkar Technological University Lonere Raigad

## One Page Summary of Research Area

Name: Dr.ALKA PRASAD SAWLIKAR  
Date of Birth: 28/11/1973  
Qualifications: B.E(Electronics); M.Tech, P.hD(Electrical Engg)  
Domain and Department: Energy-Efficient Security Protocols- Electrical Engg  
Research Area: Renewable Energy Systems;Artificial Intelligence (AI) in Power Systems; Cryptography; Digital Signal processing;



Organization/Institute: Rajiv Gandhi College of Engineering Research & Technology ; Chandrapur

Address: Babupeth Ward; Chandrapur

Cell Phone No & Email ID: 7722016115 , alkaprasad.sawlikar@gmail.com

No of M. Tech & PhD Students Completed & Ongoing: M. Tech Students Guided ---12 & Ongoing--3

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

<https://docs.google.com/spreadsheets/d/1zB7ow2RMuepwtYJYguqZUT4hY9Ka5qJ4EylfkPpRBaQ/edit?gid=0#gid=0>

**Summary of Research Domain:** In Hybrid AI Controller smart inverter controllers significantly elevate grid performance—delivering rapid, energy-efficient load balancing, optimal renewable utilization, and enhanced grid reliability. Balancing security and energy efficiency in wireless communications using combinations of data compression and encryption algorithms. Comprehensive parametric comparison of multiple compression–encryption pipeline configurations. Introduction and performance validation of a new lightweight compression algorithm (KSA). Confirmation that chaos-based encryption, when coupled with effective compression, is ideal for energy-sensitive wireless systems. Advancements in hybrid algorithms and adaptive learning methods underscore a strong upward trajectory in smart energy management.

Name & Sign

# Dr. Babasaheb Ambedkar Technological University Lonere Raigad

## One Page Summary of Research Area

**Dr. Najmuddin Moulaali Jamadar**

**Qualifications: M. Tech, Ph. D**

**Department: Department of Electrical Engineering**

**Research Area: Electric Vehicles, Smart Grids**

**Address: Associate Professor and Head, Department of Electrical Engineering**

**Yashoda Technical Campus, Satara**

**Cell Phone No & Email ID: 9503868459 Email : najmuddinjamadar@gmail.com**

**Experience :12 years**

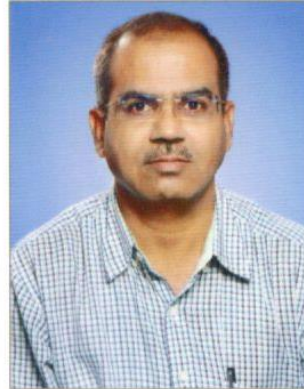
- Publications:** 1. <https://scholar.google.com/citations?user=1TduOkMAAAJ&hl=en>  
2. <https://www.scopus.com/authid/detail.uri?authorId=57219119636>



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## Dr. Babasaheb Ambedkar Technological University Lonere Raigad

### One Page Summary of Research Area



**Name:** Dr. Udaykumar Vasudeo Patil

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**Qualifications:** Ph.D. (VNIT, Nagpur)

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**Department:** Department of Electrical Engineering

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**Research Area:** Power Electronics Converters and Applications, Electrical Drives

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**Address:** Loknete Shamrao Peje Government College of Engineering, Ratnagiri - 415612

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**Cell Phone No & Email ID:** 9403090395      **Email :** patil\_uv@yahoo.com

**Experience :** 30 years

**Publications:** <https://scholar.google.com/citations?user=JvKkhoAAAAAJ&hl=en&oi=ao>

# **Dr. Babasaheb Ambedkar Technological University Lonere Raigad**

## **One Page Summary of Research Area**



**Name: Dr. Mithun G Aush**

**Qualifications: MTech(DBATU), PHD (DBATU)**

**Department: Electrical**

**Research Area: Grid Tie Inverter, Multilevel Inverter, Machine Learning, Power System , Power Electronic.**

**Address: Chh. Shahu College of Engineering, Chh Sambhajinagar**

**Cell Phone No & Email ID: 9273970087, mithun.csmss@gmail.com**

**Experience : 16years**

**Publications: International Journals: 8 (SCOPUS INDEXED), 4 (Peer reviewed Journals)**

**International Conferences: 10**

# Dr. Babasaheb Ambedkar Technological University Lonere Raigad

## One Page Summary of Research Area



**Name:** Dr. L NAVINKUMAR L SHANKAR RAO

**Qualifications:** M.TECH (VNIT NAGPUR),

**PHD (DR. A. P. J. ABDUL KALAM TECHNICAL UNIVERSITY, LUCKNOW)**

**Department:** Electrical Engg and Allied

**Research Area:** My research activities focus on the multidisciplinary integration of **Photovoltaic (PV) systems, Power Electronics, and Grid-Connected Energy Systems**, with a strong emphasis on simulation, modeling, and optimization using **MATLAB/Simulink** and various **soft computing techniques** like PSO, Machine learning and Artificial Intelligence.

**Address:** Bajaj Institute of Technology, Wardha, Arvi Road, Pipri Meghe, Maharashtra, 442001

**Cell Phone No & Email ID:** 9873677415, l.navinkumar.rao@bitwardha.ac.in

**Experience :** 18 years

**Publications:** International Journals: 5 (SCOPUS INDEXED), 1 (Peer reviewed Journals)

**International Conferences:** 6

# Dr. Babasaheb Ambedkar Technological University Lonere Raigad

## One Page Summary of Research Area

**Dr. Swapnil Yashavant Gadgune**

**Qualifications: M. Tech, Ph. D (Shivaji University, Kolhapur)**

**Department: Department of Electrical Engineering**

**Research Area: Power Electronics, Electrical Drives, Power Quality, RES Integration, Control System**

**Address: Department of Electrical Engineering,**

**Padmabhooshan Vasantodada Patil Institute of Technology, Budhgaon, Sangli**

**Budhgaon-416304, Tal. Miraj, Dist. Sangli, Maharashtra, India**

**Cell Phone No & Email ID: 9284680820 Email : swapnilgadgune@gmail.com**

**Experience : 12 years**

**Publications: <https://scholar.google.com/citations?user=yb-bxKAAAAAJ&hl=en>**

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