

**Welcome
to
Department of Electrical Engineering**

“Research Publications and Patents”

Publication Count

S No	Year	No of Publications
1	2024-2025	3
2	2023-2024	10
3	2022-2023	2
4	2021-2022	1

Publications

Academic Year 2024-25

S No	Name of Faculty	Paper Title	Date of Event	Event Date and Location	<u>Link</u>
1	Prakash L. Chavan	Electric Vehicle Acceleration Performance through Fuzzy Logic Control	Sep-24	IEEE 3rd International Conference for Advancement in Technology (ICONAT), GOA 2024	https://ieeexplore.ieee.org/document/10775220
2	Priyanka Mane	Optimizing EV fast charging infrastructure: integrating high-gain interleaved converter with advanced MPPT	Nov-24	Smart Science Journal (Taylor & Francis)	https://doi.org/10.1080/23080477.2024.2423965
3	Prakash L. Chavan	Artificial Intelligence Driven Grid Integration of Hybrid Renewable Energy Sources	Aug-24	4th Asian Conference on Innovation in Technology (ASIANCON), Ravet IN, India, 2024	https://ieeexplore.ieee.org/document/10838013

Publications

Academic Year 2023-24

S No	Name of Faculty	Paper Title	Date of Event	Event Date and Location	<u>Link</u>
1	Dr. Mir Khadim Aalam	A SCILAB based signal repository for PMU testing	2023/11/2	2023 7th International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS), held at RV college Bangalore	https://ieeexplore.ieee.org/document/10334089#:~:text=10.1109/CITSS60515.2023.10334089
2	Dr. Mir Khadim Aalam	Performance comparison of a DFT-based Causal and Non-Causal PMU	2024/5/3	2023 Second IEEE International Conference on Measurement, Instrumentation, Control and Automation (ICMICA), held at NIT Kurukshetra	https://ieeexplore.ieee.org/document/10732843#:~:text=10.1109/ICMICA61068.2024.10732843
3	Mrs. Sushmita A Sharma	A Review on IoT-Enabled Smart Homes Using AI.	June 24th - 28th, 2024	15th International IEEE Conference on Computing Communication and Networking Technologies) organized at IIT - Mandi, Himachal Pradesh, India	https://ieeexplore.ieee.org/document/10723321#:~:text=10.1109/ICCNT61001.2024.10723321
4	Mrs. Sushmita A Sharma	Design Of Solar Panel Monitoring system using ESP 32 & IoT	19th to 21st July 2024	IEEE International Conference on Smart Power Control and Renewable Energy (ICSPCRE-2024) NIT Rourkela	https://ieeexplore.ieee.org/document/10675117#:~:text=10.1109/ICSPCRE62303.2024.10675117
5	Mr. Prakash L. Chavan	Artificial Intelligence Driven Grid Integration of Hybrid Renewable Energy Sources	25 – 26 Aug 2024	4th Asian Conference on Innovation in Technology (ASIANCON), Ravet IN, India, 2024	https://ieeexplore.ieee.org/document/10838013#:~:text=10.1109/ASIANCON62057.2024.10838013
6	Mr. Prakash L. Chavan	Electric Vehicle Acceleration Performance through Fuzzy Logic Control	06-08 Sept 2024	IEEE 3rd International Conference for Advancement in Technology (ICONAT), GOA 2024	https://ieeexplore.ieee.org/document/10775220#:~:text=10.1109/ICONAT61936.2024.10775220

Publications

Academic Year 2023-24

S No	Name of Faculty	Paper Title	Date of Event	Event Date and Location	<u>Link</u>
7	Mrs. Priyanka N Mane,	Voltage Oriented Controller based Vienna Rectifier with Solar Powered Electric Vehicle Charging Station	06 – 08 Sept 2024	IEEE 3rd International Conference for Advancement in Technology (ICONAT), GOA 2024	https://ieeexplore.ieee.org/document/10775232#:~:text=10.1109/ICONAT61936.2024.10775232
8	Mrs. Priyanka N Mane,	Modelling of Solar PV Panel and Designing Mppt in Matlab/Simulink for EV Charging	06 – 08 Sept 2024	IEEE 3rd International Conference for Advancement in Technology (ICONAT), GOA 2024	https://ieeexplore.ieee.org/document/10774641#:~:text=10.1109/ICONAT61936.2024.10774641

Publications

Academic Year 2022-23

S No	Name of Faculty	Paper Title	Date of Event	Event Date and Location	<u>Link</u>
1	Dr. Vilas S. Bugade,	IoT Based Theft Detection in Three Phase Distribution Line	2022	2022 IEEE Pune Section International Conference (PuneCon), Pune, India	https://ieeexplore.ieee.org/document/10014758#:~:text=10.1109/PuneCon55413.2022.10014758
2	Miss. Pallavi Patil	An Improved Arduino Based Automatic Transfer Switching System for PV System as Well As Standby Electric Generator	2022	2022 2nd International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET), Patna, India	https://ieeexplore.ieee.org/document/9848067#:~:text=10.1109/ICEFEET51821.2022.9848067

Publications

Academic Year 2021-22

S No	Name of Faculty	Paper Title	Date of Event	Event Date and Location	<u>Link</u>
1	Mrs. Priyanka Kulkarni	Performance Improvement of PID Controller for PMSM Using ANFIS Controller	2022	2022 International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP), Hyderabad, India, 2022	https://ieeexplore.ieee.org/document/9862372#:~:text=10.1109/ICICCSP53532.2022.9862372

Patent Count

Number of Patents Granted	No of Patents Filed	No of Patents Published
3	1	1

Patent Details

Sl. No.	Patent Application No.	Status of Patent (Published / Granted/File d)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Application)	Here, attach Source Proof Screenshots/URL/ Website Links, etc.
1	IN 412056-001	Granted	Prasad P. Kulkarni	Multi-Purpose Portable Cutting Machine	KIT's College of Engineering	3/30/2024	3/30/2024	IN 412056-001	KIT's College of Engineering	https://drive.google.com/file/d/18mcL2IC5I2ARR-S05kVQ3K4GFjIo8uiV/view?usp=drive_link
2	UK 6368812	Granted	Mr. Vilas S. Bugade	Electric Crop Weeder For Agriculture	KIT's College of Engineering	6/11/2024	6/11/2024	UK 6368812	KIT's College of Engineering	https://drive.google.com/file/d/18XEjauXPU0w2ydR-jrlq2yBMKEo9gJ8U/view?usp=drive_link
3	IN 202421098777	filed	Prasad P. Kulkarni	Automated Vertical Plastic Injection Modeling Machine	KIT's College of Engineering			IN 202421098777	KIT's College of Engineering	https://drive.google.com/file/d/1I5-OHf6fUP5zVyX8dDTMwGMsA1KwIRYn/view?usp=drive_link
4	412056-001	Granted	Dr.Mohan B.Vanarotti, Mr.Prasad P.Kulkarni, Mr.Pramod B.Gurav, Mr.Neeraj S.Lohar	MULTI-PURPOSE PORTABLE CUTTING MACHINE	Dr.Mohan B.Vanarotti, Mr.Prasad P.Kulkarni, Mr.Pramod B.Gurav, Mr.Neeraj S.Lohar	6/27/2023	6/27/2023	412056-001	KIT's College of Engineering	https://drive.google.com/file/d/1x5BYCJ2iAQC2iRysRA2jilqk hVhTXxp/view?usp=drive_link
5	UK 6419254	Published	Mrs. Sushmita A. Sarkar	Vertical Rotary Vehicle Storage and Retrieval Uit	KITCOEK, Mrs. Sushmita Sharma,Dr. Amit Sarkar, Ms. Mansi Satpute, Ms. Sayee Mirajkar, Mr. Aniruddh Mahajan	24/01/2025		UK 6419254	KIT's College of Engineering	

Thank You