

SANJIVANI COLLEGE OF ENGINEERING  
**Department Of Electrical Engineering**

NEWSLETTER MAGAZINE

# VIDYUTLATA 2K23

"SPARKING  
INNOVATION,  
LIGHTING  
THE FUTURE."



# MISSION

**M1: TO IMPART QUALITY EDUCATION THROUGH TEACHING LEARNING PROCESS.**

**M2: TO ESTABLISH WELL-EQUIPPED LABORATORIES TO DEVELOP R&D CULTURE IN CONTEMPORARY AND SUSTAINABLE TECHNOLOGIES IN ELECTRICAL ENGINEERING.**

**M3: TO PRODUCE ELECTRICAL ENGINEERING GRADUATES WITH QUEST FOR EXCELLENCE, ENTHUSIASM FOR CONTINUOUS LEARNING, ETHICAL BEHAVIOR, INTEGRITY AND NURTURE LEADERSHIP**

# VISION

**TO PRODUCE QUALITY ELECTRICAL ENGINEERS WITH THE KNOWLEDGE OF LATEST TRENDS, RESEARCH TECHNOLOGIES TO MEET THE DEVELOPING NEEDS OF INDUSTRY & SOCIETY**

## MEET OUR STAFF

**DR. D.B. PARDESHI**

*Professor and HOD*

**DR. G.VIJAYAKUMAR**

*Professor*

**DR. M.SUJITH**

*Assistant Professor*

**MR. P.V. THOKAL**

*Assistant Professor*

**MR. R.N.HAJARE**

*Assistant Professor*

**MR. A.M.DEULKAR**

*Assistant Professor*

**MR. R.R.BIBAVE**

*Assistant Professor*

**MRS. S.S.GONDKAR**

*Assistant Professor*

**MR. B.B.KADAM**

*Assistant Professor*

**MRS. P.S.CHOBE**

*Assistant Professor*

**MR. D.BHOWMICK**

*Assistant Professor*

**MR. S.K.AGRAWAL**

*Assistant Professor*

**MRS. P.R.LOKHANDE**

*Assistant Professor*

**MR. V.C.WABLE**

*Assistant Professor*

# FROM THE HOD DESK



As the Head of the Department of Electrical Engineering, I am proud to share the numerous achievements and strides our department has made in both academic and extracurricular domains. At our institution, we firmly believe in fostering a holistic educational environment that not only prioritizes academic excellence but also encourages our students to excel in various fields outside the classroom. Our students consistently demonstrate outstanding academic performance, securing top ranks in university examinations and earning accolades for their innovative projects and research contributions. This success is a testament to the rigorous curriculum and the dedicated efforts of our esteemed faculty members who continually strive to provide the best educational experiences. Beyond academics, our students are shining examples of versatility and talent. They actively participate in national and international competitions, showcasing their skills in robotics, circuit design, and renewable energy projects. Their innovative solutions and dedication have earned them numerous awards and recognitions, making us immensely proud. We also place a strong emphasis on developing soft skills and leadership qualities among our students.

From HOD's Desk 's Desk Through various workshops, seminars, and training programs, we ensure that our students are well-prepared to tackle the challenges of the professional world. Our alumni network is a testament to this, with many of our graduates holding prestigious positions in top companies and research institutions worldwide. In addition to their technical prowess, our students are also actively involved in social initiatives, demonstrating a strong sense of community and responsibility

# FROM THE EDITORIAL DESK



As the Editor of our departmental newsletter, I am delighted to share that we are committed to providing comprehensive coverage of all activities, both academic and non-academic, throughout the year. Our aim is to highlight the diverse achievements and events that define our vibrant community. From academic milestones and innovative projects to extracurricular successes and social initiatives, our newsletter captures the essence of our department's dynamic spirit. We take pride in showcasing the hard work, creativity, and dedication of our students and faculty, ensuring that every accomplishment is celebrated and recognized.

Our newsletter serves as a platform to foster a sense of unity and collaboration within the department, encouraging everyone to share their experiences and insights. We believe that every member of our community has a unique story to tell, and we are eager to amplify those voices through engaging articles, interviews, and features. In addition to celebrating success, we aim to create a space for dialogue and reflection on the challenges and opportunities that come our way. By doing so, we hope to inspire and motivate our readers to contribute to the continued growth and excellence of our department.

As we embark on this exciting journey, we invite you to be an active participant by sharing your stories, achievements, and ideas with us. Together, let us create a newsletter that truly reflects the spirit and achievements of our community.

# LIST OF PUBLICATIONS

## SCI JOURNAL

1. Atul Kumar, M. Sujith, K. Valarmathi, Rajnish Kumar, Bandar Ali Al-Asbahi, and Abdullah Ahmed Ali Ahmed, "Double-Absorber CZTS/Sb<sub>2</sub>Se<sub>3</sub> Architecture for High-Efficiency Solar-Cell Devices", vol.220, No.11, 2023, (Dop: March 2023)

## SCOPUS JOURNAL

1. M. Sujith, G. Vijayakumar, D. B. Pardeshi, "Analysis of battery based Hybrid Electric Vehicle power train", ARPN Journal of Engineering and Applied Sciences, Vol.17, No.16, pp. 1563–1569, ISSN 1819-6608 (Online).
2. Palanisamy Ramasamy, Kalyanasundaram Vakesan, Vijayakumar Govindaraj, Shanmugasundaram Venkatarajan, Saumitra Chattopadhyay, Vidyasagar Sugavanam, "A novel SVPWM for 3-phase to 5-phase conversion using matrix converter", Vol. 13, No. 4, pp. 2269~2276, December 2022. DOI: 10.11591/ijpeds.v13.i4.pp2269-2276
3. G. Vijayakumar, A. G. Thakur, Dipesh. B. Pardeshi, S. S. Ingle, M. Sujith and P. Kirubanantham, "Implementation of Activity Based Continuous (ABC) Evaluation Strategies for PSOs Attainment", Volume: 36, No.2, Pages: 556-559, 2023. DOI: 10.16920/jeet/2023/v36is2/23085
4. Sujith M, Vijayakumar G, Pardeshi D.B, Madhubalan S and Arulanantham D (2023), ANN-SOGI-based Shunt Active Power Filter for Harmonic Mitigation. IJEER 11(1), 97-102. DOI: 10.37391/IJEER.110113
5. M. Sujith, G. Vijayakumar, D. B. Pardeshi, S. Madubalan, K. Gokul Kannan, "PSO based Optimized PI Controller design for Hybrid Active Power Filter", International Journal of Power Electronics and Drive Systems (IJPEDS), Vol. 14, No. 2, June 2023, pp. 863~871. ISSN: 2088-8694, DOI: 10.11591/ijpeds.v14.i2.pp863-871

## **UGC JOURNAL (PRINT)**

- 1.DB Pardeshi, DA Narayne, Jayshri B Thore, Shalvi D Garud, P William, "Automatic Power Factor Compensation For Industrial Use To Minimize Penalty", Industrial Engineering Journal, Vol.52, No.3(2), pp.91-99, 2023 (DOP:03/2023)
- 2.Prashant Thokal, Abhishek Bettalu, P William, Avinash D Misal, DB Pardeshi, "Implementation And Deployment Of Smart Motor Starter Using Macrodroid", Industrial Engineering Journal, Vol.52, No.3(2), pp.100-105, 2023 (DOP:03/2023)
- 3.G.Vijayakumar, Payal Maharu Chavan, DB Pardeshi, Saurabh Mohan Dabhade, "Applications of Internet of Things in Smart Grid Intelligent Systems", Industrial Engineering Journal, Vol.52, No.3(2), pp.106-111, 2023 (DOP:03/2023)

## **INTERNATIONAL JOURNALS (NON SCOPUS)**

- 1.G Vijayakumar, M Sujith, Dipesh B Pardeshi, S Saravanan "Design and development of photovoltaic based grid interactive inverter", International Journal of Applied Power Engineering (IJAPE), vol.11, No.4, pp.292-303, 2022. (DoP: Dec 2022)

## **INTERNATIONAL CONFERENCE (SCOPUS)**

- 1.D. S. Navare, Y. R. Kapde, S. Maurya, D. B. Pardeshi and P. William, "Robotic Bomb Detection and Disposal: Application using Arduino," 2022 7th International Conference on Communication and Electronics Systems (ICCES), Coimbatore, India, 2022, pp. 479-483, doi: 10.1109/ICCES54183.2022.9836011. (24 June 2022)
- 2.S. L. Bhoi, S. Shantilal Salve, D. V. Kumar, D. B. Pardeshi and P. William, "Deployment of Slow power Hybrid Electric Vehicle based on Combustion Engine," 2022 3rd International Conference on Electronics and Sustainable Communication Systems (ICESC), Coimbatore, India, 2022, pp. 231-235, doi: 10.1109/ICESC54411.2022.9885402. (17/8/22)

## INTERNATIONAL CONFERENCE (SCOPUS)

1. P. S. Chobe, D. B. Padale, D. B. Pardeshi, N. M. Borawake and P. William, "Deployment of Framework for Charging Electric Vehicle based on Various Topologies," 2023 International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), Chennai, India, 2023, pp. 1-4, doi: 10.1109/ICECONF57129.2023.10084062. (05 Jan 2023)
2. D. B. Pardeshi, A. K. Chaudhari, P. Thokal, R. S. Dighe and P. William, "Framework for Deployment of Smart Motor Starter using Android Automation Tool," 2023 International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), Chennai, India, 2023, pp. 1-6, doi: 10.1109/ICECONF57129.2023.10083946. (05/01/23)
3. K. D. Kumar, M. A. Jawale, M. Sujith and D. B. Pardeshi, "Cybersecurity Threats, Detection Methods, and Prevention Strategies in Smart Grid: Review," 2023 Third International Conference on Artificial Intelligence and Smart Energy (ICAIS), Coimbatore, India, 2023, pp. 1609-1614, doi: 10.1109/ICAIS56108.2023.10073843. (27/3/23)
4. H. V. Parjane, V. S. Andhale, R. K. Vakte, P. M. Bodakhe, M. Sujith and D. B. Pardeshi, "Smart LPG Level Monitoring and Automatic Booking system Integrated with trolley," 2023 2nd International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN), Villupuram, India, 2023, pp. 1-4, doi: 10.1109/ICSTSN57873.2023.10151516. (21/4/23)
5. S. S. Yeole, S. Vasant Kolhe, R. R. Bibave, V. Shivaji Chavan, B. B. Kadam and V. Sakharam Bodhe, "Design of Two -Wheeler Hybrid Electric Vehicle using Series Parallel Configuration," 2023 Third International Conference on Artificial Intelligence and Smart Energy (ICAIS), Coimbatore, India, 2023, pp. 1595-1598, doi: 10.1109/ICAIS56108.2023.10073870. (8/2/23)
6. S. V. Halwai, S. Y. Chaudhari, S. S. Mangalekar, S. B. Madke and D. B. Pardeshi, "Identification & Detection of Industrial Faults using Arduino Bot," 2023 7th International Conference on Intelligent Computing and Control Systems (ICICCS), Madurai, India, 2023, pp. 1844-1848, doi: 10.1109/ICICCS56967.2023.10142381. (17/5/23)
7. P. D. Pathe, A. S. Autade, S. K. Agrawal and D. B. Pardeshi, "Waste Heat Recovery of Transformer," 2023 International Conference on Sustainable Computing and Smart Systems (ICSCSS), Coimbatore, India, 2023, pp. 1285-1288, doi: 10.1109/ICSCSS57650.2023.10169407. (14/6/23)

### **INTERNATIONAL CONFERENCE (SCOPUS)**

- 1.N. A. Aher, C. S. Mulik, D. Porwal, D. B. Pardeshi and P. William, "Hybrid Model to Address Software Controlled Arduino Robocar Using Advanced Computing Technique," 2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN), Salem, India, 2023, pp. 1651-1655, doi: 10.1109/ICPCSN58827.2023.00276.(19/06/23)
- 2.T. S. Nikam, S. A. Pawar, D. Porwal, D. B. Pardeshi and P. William, "Implementation of Bluetooth Based Cargobot Using Controlled Arduino Robocar," 2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN), Salem, India, 2023, pp. 1548-1553, doi: 10.1109/ICPCSN58827.2023.00258.(19/6/23)

### **INTERNATIONAL CONFERENCE (NON-SCOPUS)**

- 1.Advances on Sensing Technologies for Smart Cities and Power Grids: A Review
- 2.Review of Smart Meter Data Analytics : Application, Methodologies and Challenges
- 3.Towards a framework for analyzing cyber-attacks impact against smart power grid on SCADA system
- 4.Comparison of Smart Grid Development in Five Developed Countries with Focus on Smart Grid Implementation in India

### **BOOK CHAPTERS / BOOK**

- 1.Artificial Intelligence & Machine Learning Authors: Dr. Dipesh B. Pardeshi Dr. P. William, Nitin N. Sakhare Publisher: Nirali Prakashan, ISBN: 9789354518942,



## **PATENT DETAILS**

1. HYBRID VEHICLE TECHNOLOGY BASED EFFICIENT IDLE-STOP SYSTEM IN AUTOMOBILES USING SMART TRAFFIC CONTROL ALGORITHM  
Dr.D.B.Pardeshi, Dr.G.Vijayakumar, Dr.M.Sujith, Prof. Gondkar Snehal Sumit, Prof.P.V.Thokal, Prof.A.M.Deulkar, Prof.R.N.Hajare
2. Fuzzy neural optimized fuzzy logic controller based dynamic voltage restorer for power quality improvement with non-linear, Dr G Vijayakumar
3. Solar Powered Juice Cart, Dr.M.Sujith, Dr.G.Vijayakumar, Dr.D.B.Pardeshi, Prof.Pooja S Chobe
4. SMART LPG LEVEL MONITORING AND AUTOMATIC BOOKING SYSTEM INTEGRATED WITH TROLLEY, M.Sujith, Sanjivani College of Engineering, Dr.D.B.Pardeshi, Hrushikesh VijayParjane, Vaibhav SanjayAndhale, Prasad MohanBodakhe, Rahul KarnaVakte
5. Industrial Fault Monitoring BOT, Sujith M, Shubham Halwai, Shubham Madke, Shubham Malegar, Sanket Chaudri, Dr.D.B.Pardeshi

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OUTCOME BASED EDUCATION-SELF LEARNING -GUIDE LINES AND RUBRICS FOR ENGINEERING STUDENTS, M.Sujith, Dr.H.E.Khokade, Dr.L.C.Bawangar, Dr.A.G.Thakur, Dr.A.B.Pawar, Dr.D.B.Pardeshi



## PLACEMENTS

S.NO	Name of the Student placed	Enrollment No	Name of the Employer	Appointment reference letter No. with date	Salary Per Annum in Lacs
1	Shinde Jagdish Sharad	UCE19M1144	Zuiko Corporation	05/09/2023	20
2	Urvi Prakash Rana	UEE19F1055	Amazon AWS	04/09/2023	9.25
3	Manglekar Shubham Sachin	UEE19M1041	TCS	TCSL/DT202230437 21/Pune	7
4	Kunal Sharma	UEE19M1059	Johnson Controls	2022023	5.6
5	Pawar Soniya Anil	UEE19F1049	Johnson Controls	3022023	5.6
6	Gosavi Shital Vinayak	UEE19F1026	Celebal Technologies	13082022	5.5
7	Autade Shweta Bhausaheb	UEE19F1005	Celebal Technologies	13082022	5.5
8	Burhade Pooja Vijay	UEE19F1011	Celebal Technologies	7062022	5.5
9	Bhanuse Vaishnavi Sanjay	UEE19F1010	Celebal Technologies	7062022	5.5
10	Nishigandha Babasaheb Jape	UEE19F1032	SIEMENS	24/01/2024	4.5
11	Nikam Anjali Anil	UEE19F1043	Blue Star	31072023	5.25
12	Ghanghav Rutuja Dattatraya	UEE19F1025	Blue Star	31072023	5.25
13	Shelke Dhanashri Mahesh	UEE19F1060	Blue Star	31072023	5.25
14	Jadhav Purab Ranjan	UEE19M1030	Merce Technologies Pvt Ltd	Offer Letter/2223/248	5
15	Nirmal Siddharth Sunil	UEE19M1046	Cognizant	3715459	4.75
16	Barde Vaibhav Barde	UEE19M1007	Cognizant	3367332	4.75



17	Dahatonde Shraddha Navanath	UEE19F1019	Cognizant	3454046	4.75
18	Jagzap Rahul Shivaji	UEE19M1031	KPIT Technology	17102022	4.5
19	Parjane Hrushikesh Vijay	UEE20M2086	Concast India Pvt.Ltd	MS/03012023	4.5
20	Pawar Divyarani Arun	UEE20F2091	Concast India Pvt.Ltd	MS/03012023	4.5
21	Nalkar Prajwal Sanjay	UEE19M1051	TATA Technologies	06/09/2023	4.69
22	Halwai Shubham Vijay	UEE19M1027	TATA Technologies	05/09/2023	4.69
23	Tambe Vishal Namdev	UEE20M2088	TATA Technologies	05/09/2023	4.5
24	More Mahesh Dattatray	UEE19M1042	Mahindra and Mahindra	05/08/2023	4.2
25	Khule Harshada Somnath	UEE19F1037	Mahindra and Mahindra	05/08/2023	4.2
26	Sonawane Sharayu Kailas	UEE19F1063	Mahindra and Mahindra	05/08/2023	4.2
27	Chaskar Vaibhav Vasudev	UEE19M1013	Mahindra and Mahindra	05/08/2023	4.2
28	Chaudhari Sanket Yashwant	UEE19M1015	Mahindra and Mahindra	05/08/2023	4.2
29	Nikam Tejas Dadasaheb	UEE19M1045	Midea India PVT. LTD	MIPL/LOI/1741	4
30	Aher Nihali Atmaram	UEE20F2084	Midea India PVT. LTD	MIPL/LOI/1741	4
31	Madke Shubham Babasaheb	UEE19M1040	Fox Solutions	22022023	3.5
32	Chaudhari Prasad Subhash	UEE19M1014	TCS	TC SL/DT202228752 74/Pune	3.36
33	Bagal Akshata Vilas	UEE19F1006	TCS	TC SL/DT202230493 35/Pune	3.36



34	Autade Akash Satish	UEE19M1004	Control Print Limited	15052023	3.3
35	Darade Daulat Ramnath	UEE19M1020	Control Print Limited	15052023	3.3
36	Kudale Harshal Rajendra	UEE19M1039	Control Print Limited	15052023	3.3
37	Chandar Dhiraj Rajaram	UEE19M1012	Force Motors	25052023	3
38	Pund Vaishnavi Shivaji	UEE19F1052	Force Motors	25052023	3
39	Chavan Shubham Sunil	UEE19M1018	Force Motors	25052023	3
40	Barshile Mangesh Kashinath	UEE19M1008	KSB Limited	12042023	3
41	Vakte Rahul Karnasaheb	UEE20M2094	KSB Limited	12042023	3
42	Kambhire Siddhesh Vishnu	UEE19M1035	Thyssenkrupp	PUN- HR/2023/TE/APP/03 2	3
43	Gadekar Shivnath Sanjay	UEE19M1024	Connectwell	20062023	3
44	Chavan Papita Kishor	UEE19F1017	Connectwell	20062023	3
45	Amate Piyush Somnath	UEE19M1003	FiNS Solutions	21032023	2.5
46	Vitekar Avinash Kailas	UEE19M1064	FiNS Solutions	21032023	2.5
47	Paithane Samadhan Bhagwan	UEE19M1047	CE-N Digital Pvt Ltd.	20222023	1.86
48	Chavan Amol Babasaheb	UEE19M1016	CE-N Digital Pvt Ltd.	20222023	1.86
49	Kamal Kishor Jia Lal	UEE19M1034	CE-N Digital Pvt Ltd.	20222023	1.86
50	Kadam Rutuja Subhash	UEE19F1033	Sterling and Wilson	HR/8325	4.8
51	Andhale Vaibhav Sanjay	UEE20M2087	Sterling and Wilson	HR/8316	4.8
52	Pratik Dilip Pathe	UEE20M2093	Sterling and Wilson	HR/8317	4.8
53	Tanuja Sahebrao Nikam	UEE19F1044	Sterling and	HR/8348	4.8



			Wilson		
54	Komal Changdev Mane	UEE20F2095	Century Enka	CEL/HR/RECRU/LO I-24/2023	3.3
55	Samruddhi Gorakshnath Aher	UEE20F2085	Century Enka	CEL/HR/RECRU/LO I-29/2023	3.3
56	Yash Arun Aher	UEE19M1002	Century Enka	16/08/2023	1.9
57	Adinath Jagannath Sonawane	UEE19M1062	Chandra Electricals	HR/D/TR/009	1.92
58	Abhishek Shankar Ippar	UEE19M1029	Tenova	TTPL/OL/011-HR	4.5
59	Dnyaneshwar Tulshiram Sangale	UEE19M1058	ISMT	ZS:ISMT:HRD	4
60	Sakshi Mahesh Kalhapure	UEE20F2097	Siemens	12112023	2.2
61	Suyog Indrabhan Dukare	UEE20M2090	Aichelin Unitherm	AUPL/HR/OFF/LET/ 2023	3
62	Rushikesh Anil Dhumane	UEE19M1021	Bridgestone	29092023	4.5
63	Kunal Navnath Adhav	UEE19M1001	Epitome	19102023	2.6
64	Kunal Navnath Gade	UEE19M1023	MBA	College I-Card	--
65	Mahesh Raghunath Raktate	UEE19M1054	ME	College I-Card	--
66	Vaibhav Raosaheb Khule	UEE19M1038	Government Contractor	Entrepreneur	--



## Students Participation In Various Activities

Sr.No.	Name Of The Student	Date Of Event	Organised By	Subject
1	Dayanand Navare	24-06-2022	Ppg Institute Of Technology, Coimbatore, Tamilnadu	Robotic Bomb Detection And Disposal Application Using Arduino
2	Yogesh Kapade	24-06-2022	Ppg Institute Of Technology, Coimbatore, Tamilnadu	Robotic Bomb Detection And Disposal Application Using Arduino
3	Shubham Balwe	27-05-2022	Vaigai College Of Engineering Madurai	Smart Charging Station For Electric Vehicle With Different Topologies
4	Rohit Ghoderao	27-05-2022	Vaigai College Of Engineering Madurai	Smart Charging Station For Electric Vehicle With Different Topologies
5	Akib Ali Butt	27-05-2022	Vaigai College Of Engineering Madurai	Design And Optimisation Of Solar Using Mppt Algorithm In Ev
6	Harpreet Singh Matharu	27-05-2022	Vaigai College Of Engineering Madurai	Design And Optimisation Of Solar Using Mppt Algorithm In Ev
7	Rafooz Butt	27-05-2022	Vaigai College Of Engineering Madurai	Design And Optimisation Of Solar Using Mppt Algorithm In Ev
8	Harpreet Singh Matharu	Na	Journal Of Oriental Research Madras	Design Of 2 Wheeler Hybrid Ev Using Series Parallel Configuration
9	Siddhant Shivsharan	Na	Journal Of Oriental Research Madras	Design Of 2 Wheeler Hybrid Ev Using Series Parallel Configuration
10	Kalpesh Sarode	Na	Journal Of Oriental Research Madras	Energy Management System In Luxury Building Appartments Using Dynamic Electric Load With Smart Grid Strategy
11	K K Gudade	Na	Journal Of Oriental Research Madras	Infiltration Detection For Defense Application Using Raspberypic
12	A V Gaikwad	Na	Journal Of Oriental Research Madras	Infiltration Detection For Defense Application Using Raspberypic
13	Ganesh Chaudhary	Na	Journal Of Oriental Research Madras	Performance Analysis And Control Of D-Statcom Using Intanstanecous Reactive Power Theory Based Control Algorithm In Distributed System
14	Swapnil Kote	Na	Journal Of Oriental Research Madras	Performance Analysis And Control Of D-Statcom Using Intanstanecous Reactive Power Theory Based Control Algorithm In Distributed System

15	Akash Dengale	Na	Journal Of Oriental Research Madras	Efficiency Calculation Based On Improvement Oover Solar Power Plant
16	Vikas Bunge	Na	Journal Of Oriental Research Madras	Efficiency Calculation Based On Improvement Oover Solar Power Plant
17	Trupti Chikne	Na	Journal Of Oriental Research Madras	Intruter Detection For Defense Application Using Rasperrypic
18	Rutuja Bramhankar	Na	Journal Of Oriental Research Madras	Design And Development Of Lake View Apt. Project Design Of Electrical System
19	Pooja Jagtap	Na	Journal Of Oriental Research Madras	Modelling And Control Of D-Statcom Using A Irt Theory Based Algorithm In 3 Phase 4 Wire Distribution System
20	Rutuja Thombare	Na	Journal Of Oriental Research Madras	Modelling And Control Of D-Statcom Using A Irt Theory Based Algorithm In 3 Phase 4 Wire Distribution System
21	Manjusha Vidhate	Na	Journal Of Oriental Research Madras	Automatic Pf Compensation In Low And High Voltage Capacitor
22	Pooja Sarode	Na	Journal Of Oriental Research Madras	Automatic Pf Compensation In Low And High Voltage Capacitor
23	Deepak Choudhari	Na	Journal Of Oriental Research Madras	Implementation Of Arduino Based Robo Car With Bomb Detector
24	Prathmesh Chaudhari	Na	Journal Of Oriental Research Madras	Implementation Of Arduino Based Robo Car With Bomb Detector
25	Gaurav Agwan	Na	Journal Of Oriental Research Madras	Monitoring And Protection Of Earthing System Using Arduino
26	Sachin Dhat	Na	Journal Of Oriental Research Madras	Monitoring And Protection Of Earthing System Using Arduino
27	Shubham Gadakh	Na	Journal Of Oriental Insitute Baroda	Monitoring And Protection Of Earthing System Using Arduino
28	Prathmesh Kadam	Na	Journal Of Oriental Insitute Baroda	Monitoring And Protection Of Earthing System Using Arduino
29	Ashish Sanvatsarkar	Na	Journal Of Oriental Insitute Baroda	Design And Fabrication Of Load Carrying Ev
30	Nikesh Agwan	Na	Journal Of Oriental Insitute Baroda	Design And Fabrication Of Load Carrying Ev
31	Shantanu Gavare	Na	Journal Of Oriental Insitute Baroda	Design And Fabrication Of Load Carrying Ev
32	Pratik Gore	Na	Shodhsamhita	Design And Fabrication Of Load Carrying Electric Vehicle

33	Shantanu Gavare	Na	Shodhsamhita	Design And Fabrication Of Load Carrying Electric Vehicle
34	Mahesh Kale	Na	Shodhsamhita	A Review Bidirectional On Board Charger For Electric Vehicles
35	Ravinder Kumar	Na	Shodhsamhita	A Review Bidirectional On Board Charger For Electric Vehicles
36	Vishal Khoche	Na	Shodhsamhita	Improve Power Quality On Board Integrated Charger With Reduced Switching Stress
37	Anuj Aher	Na	Shodhsamhita	Improve Power Quality On Board Integrated Charger With Reduced Switching Stress
38	Rohit Chandgude	Na	Shodhsamhita	IoT Based Borewell And Water Level Monitoring System
39	Manoj Dolas	Na	Shodhsamhita	IoT Based Borewell And Water Level Monitoring System
40	Ramesh Butte	Na	Shodhsamhita	Arduino Based Borewell Monitoring System For Agricultural Land
41	Dadasaheb Aher	Na	Shodhsamhita	Arduino Based Borewell Monitoring System For Agricultural Land
42	Surade Komal	Na	Shodhsamhita	Dialux Software For Calculating The Illumination Levels
#Name?				
43	Siddhant Shivsharan	Na	International Journal Of New Technology And Research	Design And Optimization Of Solar Using Mppt Algorithm Controlled By 2 Wheeler Hev Using Matlab Simulink
44	Aditya Khandizod	Na	International Journal Of Creating Research Thoughts	Development Of A Hybrid Energy Storage System For Electric And Hybrid Electric Vehicle Or Review
45	Hrushikesh Mate	Na	International Journal Of Creating Research Thoughts	Development Of A Hybrid Energy Storage System For Electric And Hybrid Electric Vehicle Or Review
46	Shalvi Garud	Na	Industrial Engineering Journal	Automatic Power Factor Compensation For Industrial Use To Minimise Penalty
47	Jayshri Thore	Na	Industrial Engineering Journal	Automatic Power Factor Compensation For Industrial Use To Minimise Penalty
48	Avinash Misal	Na	Industrial Engineering Journal	Implementation And Deployment Of Smart Motor Starter Using Micro Droid
49	Abhishek Bettalu	Na	Industrial Engineering Journal	Implementation And Deployment Of Smart Motor Starter Using Micro Droid
50	Payal Chavan	Na	Industrial Engineering Journal	Applications Of Internet Of Things In Smart Grid Intelligent Systems
51	Shubham Dabhade	Na	Industrial Engineering Journal	Applications Of Internet Of Things In Smart Grid Intelligent Systems



52	Vishal Sudam Lande	06-07-2022	Udemy	Aws Identity & Access Mangement
53	Vishal Sudam Lande	02-08-2022	Udemy	Learn Html-For Beginners
54	Vishal Sudam Lande	02-08-2022	Udemy	Improve English By Movies
55	Vishal Sudam Lande	02-08-2022	Udemy	Php For Beginners
56	Vishal Sudam Lande	08-07-2022	Udemy	Python Api Programming With Fastapi& Flask
57	Vishal Sudam Lande	05-07-2022	Udemy	Install Nginx,Php,Mysql,Ssl&Wordprsss
58	Vishal Sudam Lande	08-07-2022	Udemy	Jquery For Absolute Beginners
59	Vishal Sudam Lande	08-07-2022	Udemy	Master React Redux Via Real World Analogy & Building Project
60	Vishal Sudam Lande	10-07-2022	Udemy	Html5-From Baics To Advanced Level 2021
61	Vishal Sudam Lande	09-07-2022	Udemy	Ultimate Adobe Photoshop
62	Girish Bairagi	22-08-2022	Udemy	Sp Project Essentials Implementing Sap S/4 Hana & Sap Erp
63	Saloni Adhav	20-07-2022	Udemy	Javascript Programming
64	Halwai Priyanka Ramlal	10-03-2022	Great Learning	Smart English Basics For Professionals
65	Samadhan Nyahrkar	01-09-2022	Great Learning	C Programming In Hindi
66	Bothe Ishwari	01-08-2022	Great Learning	Online Course (Digital Marketing)
67	Dipali Shrirang Bramhane	01-08-2022	Great Learning	Online Course ( Data Science)
68	Tribhuvan Neha Balasaheb	01-08-2022	Great Learning	Online Course(Html Tutorial)
69	Divya Sanjay Muthekar	01-07-2022	Great Learning	C Programming In Hindi
70	Saloni Adhav	01-07-2022	Great Learning	Python For Machine Learning
71	Saloni Adhav	01-07-2022	Great Learning	Introductin To Digital Marketing
72	Sunil Vinchu	01-07-2022	Great Learning	Online Course C For Bignners
73	Sunil Vijay Vinchu	01-07-2022	Great Learning	What Is Lot ?
74	Dipali Shrirang Bramhane	01-05-2022	Great Learning	Online Course ( Smart English)
75	Darunte Vaishnavi Ramesh	01-02-2022	Great Learning	Online Course ( Smart English)

76	Darshan Gunjal	10-03-2022	Great Learning	Smart English Basics For Professionals
77	Pragati Gaikwad	11-03-2022	Great Learning	Smart English Basics For Professionals
78	Abhishek Bomare	12-08-2022	Great Learning	Introduction To Supervised Learning
1.	Adhav Pratik Ajit	12-04-2023	Coursera	Learn Fundamentals Of Computer Programming With C Language
2.	Adhav Siddhi Kiran	12-04-2023	Coursera	Learn Fundamentals Of Computer Programming With C Language
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68.	Yuvare Tushar Uttam	12-04-2023	Coursera	Learn Fundamentals Of Computer Programming With C Language
69.	Bhongale Sarthak Chandrakant	12-04-2023	Coursera	Learn Fundamentals Of Computer Programming With C Language
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71.	Adhav Siddhi Kiran	12-04-2023	Coursera	Introduction To C Programming Variables Input Output
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138.	Bhongale Sarthak Chandrakant	12-04-2023	Coursera	Introduction To C Programming Varisbles Input Output
139.	Sakshi Bhivsen Pawar	12-04-2023	Coursera	Introduction To Html
140.	Sakshi Bhivsen Pawar	12-04-2023	Coursera	Introduction To Python
141.	Anushka Nitin Shirsath	12-04-2023	Coursera	Introduction To Python

### Other online courses

1	1	Rutvik jawale	23-08-2022	Skillup	Introduction to artificial intelligence
2	2	ghorpade ganesh	17-08-2022	Skillup	Introduction to data analytics
3	3	ajit wake	23-08-2022	edu plus now	introduction to cyber security
4	4	krushna tambhore	18-09-2022	Mathworks	Matlab onramp
5	5	Pravin Hadke	19-09-2022	Mathworks	Matlab onramp
6	6	prathmesh purkar	19-08-2022	Just web infotech	Beginner to advanced wordpress course
7	7	prathmesh purkar	18-08-2022	Just web infotech	Digital marketing foundation course with mobile Sarathi
8	8	prathmesh purkar	12-08-2022	TATA Forage	Data visualization empowering business with effective insights
9	9	prathmesh purkar	18-08-2022	Infosys Forage	Power programmer virtual experience program
10	10	purab jadhav	09-08-2022	Accenture Forage	Tata analytics with virtual experience
11	11	vaishali ingale	16-08-2022	Microsoft	Power platform fundamentals
12	12	Nikhil borawake	17-08-2022	Microsoft	Power platform fundamentals
13	13	Bansode prasad	15-07-2022	Google cloud	Google cloud migration some 2022
14	14	anap swapnil	16-07-2022	Google cloud	Google cloud migration some 2023

### Internships

1	1	raahul patole	08-07-2022	Intershala	E-cell IIT Bombay
2	2	amol kawad	19-07-2022	Internship program	Data science and machine learning internship program demo session
3	3	sunil vinchu	19-07-2022	Coursera	Data science and machine learning internship program demo session
4	4	vishal tambe	15-08-2022	Forage	Cyber security global virtual internship
5	5	Rutuja kadam	03-08-2022	private limited Bangalore	Battery management system
6	6	shraddha dahatonde	04-08-2022	private limited Bangalore	Battery management system
7	7	kunal gade	09-08-2022	Forage	Cyber security global virtual internship
8	8	vaishali ingale	16-08-2022	Sabira banu	Cyber security and ethical hacking internship programme demonstration
9	9	Matade Prasad	13-08-2022	Skyrider institutions	Advanced aircraft and drone design



# TECHNICAL ARTICLE

## WIRELESS NOTIFICATION DEVICE POINT TO MULTIPOINT COMMUNICATION



**Wireless communication** is essential in modern technology, allowing devices to connect without physical wires. Point-to-multipoint communication is a key method for transmitting information to multiple devices simultaneously. It involves a single source transmitting data to multiple receivers at once. This method is commonly used for broadcasting, public address systems, and emergency notifications. It is applied in various sectors, such as broadcasting, where TV and radio stations use it to reach a wide audience simultaneously. In emergency notifications, it is employed to quickly disseminate alerts and instructions during emergencies. It also facilitates remote monitoring and control in industrial settings and enables distance learning by reaching multiple students simultaneously.

**The benefits** of point-to-multipoint communication include scalability, allowing systems to efficiently expand to accommodate more receivers, and cost-effectiveness, as it reduces infrastructure costs compared to point-to-point systems. Its flexibility allows device placement and mobility without cable restrictions, and it can be quickly deployed, which is crucial for timely emergency communication. However, this communication method faces challenges such as interference, where signal quality can be affected by other devices and environmental factors, and security concerns, as wireless data transmission requires robust security measures. Bandwidth limitations, where the available bandwidth must be shared among all receivers, can affect performance, and some systems need a clear line of sight between the transmitter and receivers.

**Point-to-multipoint** communication offers an efficient and cost-effective way to distribute information across multiple devices. While challenges exist, the benefits of scalability, flexibility, and quick deployment make it a valuable method for broadcasting, public safety, education, and industry. As technology advances, these systems will continue to enhance connectivity and communication.

*-Saiprasad Gosavi*

*S.Y. B.tech*

# TECHNICAL ARTICLE

## HARNESSING SOLAR ENERGY



**Solar energy**, harnessed from the sun's rays, is a sustainable and renewable energy source that offers a promising solution to the world's growing energy needs. As concerns about climate change and the depletion of fossil fuels increase, solar energy provides an environmentally friendly alternative that can significantly reduce greenhouse gas emissions. Solar energy is captured using photovoltaic (PV) systems, which convert sunlight directly into electricity, and solar thermal systems, which use heat from the sun to generate electricity or provide heating. It is used in various applications, including electricity generation for homes and businesses, water heating, agriculture, and even transportation through solar-powered vehicles and charging stations.

**The benefits** of solar energy are numerous. It is abundant and renewable, providing a reliable energy source that is available worldwide. Solar energy reduces reliance on fossil fuels, enhances energy security, and contributes to a cleaner environment. The solar industry also creates jobs in manufacturing, installation, and maintenance, boosting economic growth. However, solar energy faces challenges such as intermittency, as it depends on sunlight, which varies due to weather conditions and the day-night cycle. Efficient storage solutions are needed to store excess energy for use when the sun is not shining, which can increase costs. Additionally, the initial costs of solar panel installation can be high, although these are typically offset over time by savings on energy bills. Despite these challenges, advancements in technology and supportive policies are making solar energy more accessible and cost-effective. As we transition to a more sustainable future, solar energy will play a crucial role in reducing carbon emissions and fostering economic growth.

*-AshishKokate*  
*S.Y. B.tech*

# TECHNICAL ARTICLE

## THE MAGIC OF AI AND MACHINE LEARNING: HOW SMART COMPUTERS ARE CHANGING OUR WORLD



**AI and Machine Learning** are reshaping our world by making computers smarter and more efficient. In healthcare, these technologies help doctors diagnose illnesses faster and more accurately by analyzing vast amounts of medical data. In manufacturing, AI-powered robots enhance productivity by performing tasks autonomously, speeding up production, and reducing costs. Virtual assistants like Siri and Alexa use AI to understand and respond to our commands, simplifying our interactions with technology and providing personalized support. In finance, AI safeguards our money by detecting fraud through sophisticated analysis of spending patterns, offering enhanced security. For agriculture, AI optimizes crop growth by analyzing data on weather and soil conditions, leading to better yields and less waste. Additionally, AI-driven innovations are revolutionizing areas like transportation with self-driving cars and enhancing our entertainment experiences with personalized recommendations. Overall, AI and Machine Learning are transforming various aspects of our lives, making them more efficient, secure, and enjoyable, with even more exciting developments on the horizon.

*-Ganesh Gaikwad*  
*S.Y. B.tech*

# TECHNICAL ARTICLE

## GENERATIVE AI AND ROBOTICS



**As designers** look towards the future, AI techniques are set to transform automation by creating intuitive systems that exceed human capabilities. While convolutional neural networks (CNNs) have been the backbone of robotic vision, they have limitations for next-generation systems. Nano materials, such as carbon nanotubes and nanoparticles, offer unique properties at the nanoscale, enabling advancements in aerospace, electronics, energy storage, and medical diagnostics.

**In robotics**, the challenge of limited data for training AI models is being addressed with Nvidia's expanded Isaac ROS framework. This update includes new simulation and perception tools, reducing the need for experimental data. The Isaac ROS 2.0 framework also integrates support for Native ROS 2 Humble, NITROS ROS, and CUDA NITROS, enhancing the accuracy and performance of AI models. These improvements work alongside the Omniverse Replicator, which helps designers synthesize datasets for model evaluation.

**Overall**, advancements in AI and simulation frameworks are providing designers with powerful tools for developing and deploying high-performance AI models in edge devices. This marks a significant step towards more effective and commonplace interactions with artificial intelligence.

*-Vedant Buchude*  
*S.Y. B.tech*

# TECHNICAL ARTICLE

## THE RISE OF ELECTRIC VEHICLES: A SUSTAINABLE REVOLUTION IN TRANSPORTATION



**Electric vehicles** (EVs) are revolutionizing the automotive industry, marking a significant shift towards sustainable transportation. Although the concept of electric propulsion dates back to the 19th century, it is in the 21st century that EVs have gained prominence due to advancements in battery technology and increasing environmental concerns. Major automakers are now heavily investing in EV development to meet the rising demand for eco-friendly vehicles. One of the key benefits of EVs is their zero tailpipe emissions, which help reduce air pollution and greenhouse gas emissions, playing a vital role in combating climate change and enhancing urban air quality.

**Technological advancements** have been crucial in making EVs more practical and accessible. Lithium-ion batteries, which are now standard in most EVs, have become more efficient, providing greater range and quicker charging times. Innovations in electric motor technology have also improved performance, making EVs competitive with traditional gasoline cars in terms of acceleration and handling. Additionally, the growing network of charging infrastructure and supportive government policies are further accelerating the adoption of electric vehicles. As technology continues to evolve and costs decrease, EVs are set to become even more integrated into our daily lives, paving the way for a cleaner, more sustainable future in transportation.

*-Pawar Saurabh  
S.Y. B.tech*

# TECHNICAL ARTICLE

## AUTOMATION AND GEN AI-DO THEY NOT DISPLACE WORKERS..?



In the kingdom of currents, where electrons roam,  
Lies the domain of wires, where sparks find their home  
In labs of wonder, minds brightly shine,  
Exploring the realm of volts and signs.  
From humble resistors to capacitors grand,  
In circuits they mingle, by engineers' hand.  
Transistors whisper, diodes gleam bright,  
In the symphony of circuits, they dance in the light.  
With switches and relays, they control the flow,  
Guiding power where it needs to go.  
Transformers hum with energy's song,  
As motors whirr, propelling us along.  
From power stations to homes aglow,  
Electricity's magic, it continues to grow.  
In every device, a story unfolds,  
Of innovation, discovery, tales untold.  
So here's to the electrical department, its wonders untold,  
Where sparks of genius, forever unfold.  
In labs of innovation, minds take flight,  
In the realm of electrons, they shine ever bright.

*-Ishwari Kokane*  
*S.Y. B.tech*

# TECHNICAL ARTICLE

## NAVIGATING THE PLACEMENT LANDSCAPE: TRENDS, CHALLENGES, AND OPPORTUNITIES



**Navigating the placement** landscape has become increasingly complex as organizations and job seekers face evolving trends, challenges, and opportunities in today's dynamic job market. One significant trend is the rise of digital platforms and technology-driven recruitment tools, which streamline the placement process but also introduce new complexities in terms of data privacy and the need for digital literacy. As industries continue to adapt to technological advancements, there is a growing emphasis on skills related to artificial intelligence, data analytics, and cybersecurity, which creates both opportunities for those with relevant expertise and challenges for those needing to upskill. Another challenge is the shifting expectations of both employers and job seekers, where flexibility, remote work options, and a focus on work-life balance are becoming increasingly important. Companies are also facing difficulties in attracting top talent due to heightened competition and the need to offer competitive compensation packages and career development opportunities. Despite these challenges, there are numerous opportunities for proactive job seekers and organizations alike. For job seekers, embracing continuous learning and adapting to industry trends can enhance employability and career prospects. For employers, investing in robust recruitment strategies, employer branding, and creating a positive workplace culture can help attract and retain the right talent. By understanding and addressing these trends and challenges, both job seekers and organizations can better navigate the placement landscape and capitalize on the opportunities it presents.

*-Rahane Rushikesh*  
*T.Y. B.tech*

# TECHNICAL ARTICLE

## PRODUCTS AND MOVIES RECOMMENDATION SYSTEM FOR SOCIAL NETWORKING



In today's digital age, the integration of recommendation systems into social networking platforms has revolutionized how users discover products and movies, enhancing their online experience by providing personalized suggestions tailored to their preferences. These systems leverage advanced algorithms and vast datasets to analyze user behavior, interactions, and preferences, delivering highly relevant recommendations that resonate with individual tastes. For products, recommendation engines consider factors such as past purchases, browsing history, and user reviews to suggest items that align with a user's interests, thus driving engagement and boosting sales. Similarly, for movies, these systems utilize data such as viewing history, ratings, and genre preferences to recommend films that a user is likely to enjoy, creating a more engaging and enjoyable viewing experience. By continuously learning and adapting to user preferences, recommendation systems not only improve the accuracy of their suggestions but also foster a more personalized and engaging social networking environment, ultimately enhancing user satisfaction and interaction across digital platforms.

*-Mansi Handi*

*T.Y. B.tech*



# T. Y. B-TECH ELECTRICAL 2K23-24



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