

KJ's Educational Institute K J COLLEGE OF ENGINEERING & MANAGEMENT RESEARCH, PUNE

Affiliated to Savitribai Phule Pune University, Approved by AICTE, DTE and Govt. of Maharashtra

**This Institute is under Academic Mentorship of COEP
(Accredited By NAAC)**

INSTITUTE CODE : EN6320

Brochure

**Mechanical | Civil | Computer | Electrical
Electronics & Tele-Communication | Electronics Engineering (VLSI Design & Technology)
Electronics & Communication (Advanced Communication Technology)**

kjei.edu.in/kjcoemr



ABOUT KJCOEMR

Institute was founded with the noble vision to raise professionals and leaders of high academic caliber who can face the challenges of advancing technology and newer knowledge areas. We want to prepare our students professionally, nurture them with a strong motivation and commitment to serve humanity. KJCOEMR was established in the year 2009. We offer four year full time degree course in 'Bachelor of Engineering' with specializations in Civil(60), Computer(180), Electrical(60), Electronics and Telecommunication(60), Mechanical Engineering(90), BE Electronics (VLSI Design & Technology) (60) and BE (Electronics and Communication - Advanced Communication Technology) (60) and four post graduate courses in Computer Engineering(12), Computer Networks(12), Civil-Structural Engineering (24) and Mechanical-Design Engineering(12). The College is approved

by AICTE & DTE, Govt. of Maharashtra and is affiliated to University of Pune.

The modern state-of-the-art infrastructure and facilities are developed to provide conducive atmosphere for Teaching, Learning & All Round Development of the Students. In order to achieve our objectives, we have qualified teachers and staff dedicated to maintain high standards. Majority of our faculty members are having more than 10 years of Academic and/or Industrial Experience in their respective disciplines. Teaching Methodology includes well prepared Lecture Notes, latest Presentation Techniques, Interactive Sessions, as well as dialogue between students and teachers. We encourage one-to-one interactions between teachers and students, for co-curricular as well as extra-curricular activities.

VISION

"To be a premier knowledge center of the nation for socio-economic development."

MISSION

"To provide education that combines rigorous academics with joy of discovery through sustained efforts and dynamic strategies in building innovative, participatory, problem based learning practices and research that leads to capacity building of the students."

COURSES OFFERED

Choice Code	BE	Seats	Choice Code	ME	Seats
632019110	Civil Engineering	60	632024510	Computer Engineering	12
632024510	Computer Engineering	180	632024710	Computer Networks	12
632037210	E&TC Engineering	60	632060110	Design Engineering	12
632037810	Electronics Engineering (VLSI Design & Technology)	60	632021210	Structural Engineering	24
632092810	Electronics and Communication Engineering (Advanced Communication Technology)	60			
632029310	Electrical Engineering	60			
632061210	Mechanical Engineering	90			



Dear Students,

For socio-economic and ethical transformation of our country, the foundation stone of the KJ's Educational Institute in the year 2005. The mission is to impart quality education in engineering and creating a conducive environment for teaching learning process. I believe that the students completing various courses will not only have ample job opportunities in India and abroad but can also look forward to becoming entrepreneurs and researchers.

I extend a hearty and warm welcome to you at K J College of Engineering & Management Research which will definitely shape your mind and character for your future endeavors.

HON. SHRI. KALYAN JADHAV
Founder President, KJEI, Pune

Hon. Shri Kalyan Jadhav, Founder President KJEI and KJ Infrastructure Pvt,Pune received "**INFRA ICON - 2018**" award from Navbharat in auspicious hand of **Hon. Nitin Gadkari**, Union Road Transport and Highways Minister, India



“
*The journey of
a thousand
miles begins
with one step...*
”



OUR CORE TEAM



Since its inception in 2005, KJ's Educational Institute have been committed in building quality and leadership in education. Over the years, organisation has evolved into a platform of academic options and has become a one stop destination for nurturing students into a fully equipped professional. We are dedicated to give our students a bright future. I congratulate and welcome the students who have gained admission to our college and wish them success.

SHRI. VINOD K. JADHAV

Treasurer, KJEI, Pune



It gives me immense pleasure in welcoming the new students, on behalf of the entire community of the KJ's Educational Institute. The campus has developed a unique, close and family relationship between students and teachers to help them grow personally as well as professionally. Our hopes and aspirations are invested in the holistic development and well being of our students. Best wishes to all the new students, who are going to be a part of our campus.

MRS. HARSHADA V. JADHAV

Managing Director, KJEI, Pune



We have a myriad of young, vibrant and talented minds on KJEI campus and it's vital that they are provided with all the opportunities to a formal education as well as an opportunity to make a difference in the world as a contributing force. That's what we aim to do and being an educational institute. I believe we all can make difference in this world, but what sets us apart is the kind of difference we choose to make and I'm truly grateful to be able to contribute towards it.

MS. VIBHAVARI K. JADHAV

Managing Director, KJEI, Pune



KJEI is a vision of our founder President which aspires all students to succeed in the world. We offer a wide variety of challenging, enjoyable and successful course opportunities with co curricular activities for an all round personality development. It's our belief that being in our campus should be experience of a life time. Our Students are our main focus and we are proud of achievements of our Students and Faculty. At KJEI we believe that true education is a right blend of intelligence and character. We educate our Students to maximize their innate potential along with positive social behavior. We empower the young minds with all the requisite skill sets thus developing successful global citizen. Progress for me has never been a dream. It has always been an achievable reality and once a milestone is achieved, there is always another one waiting to be crossed. We are continuously striving to achieve our goals and make KJEI a global name to reckon with. My best wishes to all the Students and TEAM KJEI.

MAJ. GEN. SAMEER KALLA VSM (RETD.)

Executive Director, KJEI, Pune



KJ Educational Institute (KJEI) strives to achieve further excellence in Academics, Research & Innovation, Placements & Internships - Higher Studies- Start-ups & Entrepreneurship oriented professional competence and nurturing a strong urge among students, faculty and staff to serve the needs of the Society, Industry and all Stakeholders in the globalized economy. We appeal all valuable Stakeholders to Join firm hands with KJEI to Support and align our efforts towards making our country the super power achieving the five trillion Economy very soon. Best wishes for contributing in the quest for India's Technology Leadership! Let's make it happen!!

DR. AJAY M. FULAMBARKAR

Technical Director, KJEI, Pune



KJEI has carved a distinct image of its own in education in the country and in particular arena of Pune. It's not only the modern infrastructure and lovely green campus makes it different from others but also the effective student centric development practices it offers to the budding professionals. Holistic development of the students is ensured by creating platform to have the right brain development as also the left brain development. KJEI provides all the opportunities for their students to excel in all spheres of professional education and to be proud nation builders of tomorrow. Best wishes to Team KJEI!

DR. HEMANT S. DESHMUKH

Dean, Student Development & Welfare



KJCOEMR is one amongst the reputed technical Institute imparting finest quality education in Pune. The evolution of the Institute over the years has witnessed strong blend of state-of-the-art infrastructure and intricately intertwined human resource committed to provide professional education with thrust on creativity and innovation. Therefore, our main focus is on adapting the teaching-learning process that leads the research orientation to expand personal as well as national growth.

"A desire can change nothing... a decision can change something... but a determination can change everything...!!!"

We encourage innovative ideas by faculty and students in overall development of the learners. Along with the academics the students also participate in extracurricular and co-curricular activities through active cultural, sports, social groups. I wish you a very happy and academically highly rewarding students life in KJCOEMR and hope that you will be a source of pride for this prestigious institution.

Dr. Suhas S. Khot

Principal, KJCOEMR, Pune.



Dr. Suhas S. Khot, Principal, KJCOEMR got Excellence award at Mumbai with auspicious hands of Hon. Minister of Technical & Higher Education **Shri. Udayji Samant**, Govt. of Maharashtra on 30 August 2021



Hon'ble Principal **Dr. Suhas S Khot**, Principal KJCOEMR recieved **"BEST PRINCIPAL"** (Degree Level) 2023 Award from ISTE (Indian Society of Technical Education) New Delhi for Maharashtra & Goa section.



GLIMPSES OF...



SPPU Vice-Chancellor & Controller of Exam-SPPU, visited at campus for orientation program on examination process



Inauguration of MALHAR 2K24 by auspicious hands of Dr. Mahesh Kakade, Controller of Exam-SPPU



Famous Singer Arya Ambekar visited at MALHAR 2k25 Youth Festival



Commissioner of Police of Pune City, Mr. Amitesh Kumar felicitated by Hon. Kalyan Jadhav Sir



Famous Singer Celebrity Avadhoot Gandhi felicitated by Technical Director at MALHAR 2k25 Youth Festival



IPS Nikhil Pingale visits at MALHAR 2k25 Youth Festival

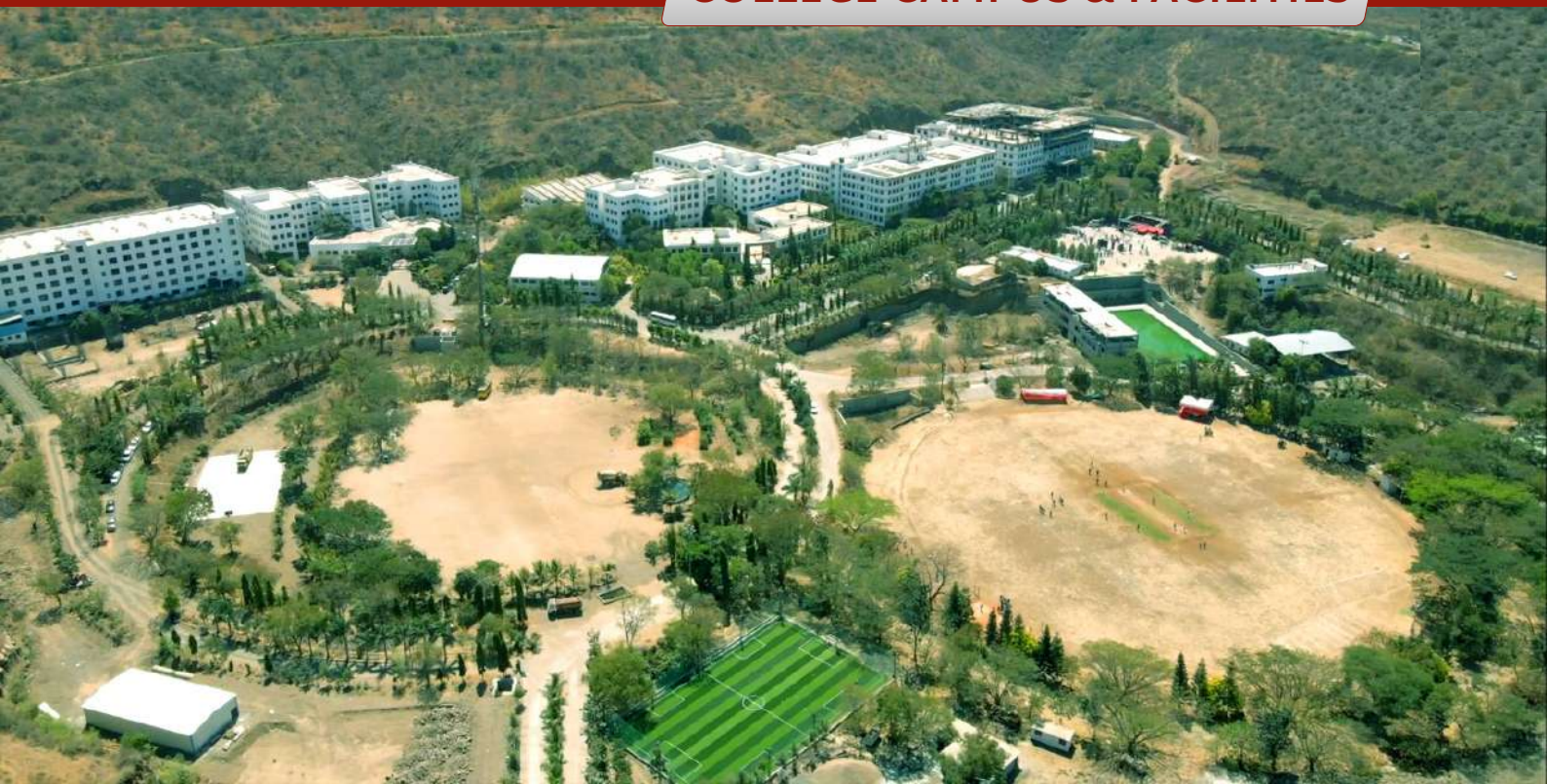


Dr. D. B. Ahuja, Director of COEP, visited the campus for Mentorship programme



Maharashtrachi Hasyajatra Fame celebrities visited at MALHAR Youth Festival

COLLEGE CAMPUS & FACILITIES



Open air College playground



Huge Library



College Hostel



College Canteen



Green Campus



Swimming Pool



Football Ground



ATM Facility



Transport Services



Dr. Prajakta Deshmukh
First Year Coordinator



The department of Engineering Sciences started in the year 2009. We provide best Infrastructure, qualified and experienced faculty. Our department offers good theoretical & practical training in Physics, chemistry & Mathematics to meet the academic requirements of the engineering course.

We are committed to feed the updated knowledge to the budding engineers. Students develop the pride in themselves, so that they get a chance to portray their hidden talents. Well planned laboratories, built around a modular concept that simulates and provides the students with an inspiring environment conducive to develop the skills of the students.



Dr. Vivek B. Korde
Assistant Professor

Our Achievements...

- Neha Shitole, Vrushali Nagavade, and Payal Parbhane received scholarships from the Lila Poonawala Foundation.
- Shreyash Jangam, Mahesh Bhoinal, and Dipak Kulawade received scholarships from Cybage Khushboo.
- Vrushali Nagavade scored 10 out of 10 credits in Semester I of A.Y. 2023–24.
- Mr. Pravin Mote scored 100/100 in Engineering Mathematics-I in the First Year SPPU Examinations, Semester I, A.Y. 2023–24.
- Prerana Wale scored 100/100 in Engineering Mathematics-II in the First Year SPPU Examination, Semester II, A.Y. 2023–24.
- Varun Magar, Mujawar Sufiyan, Akshay Patel, and Shantanu Maity presented and published a paper under the guidance of Dr. Prajakta Deshmukh at the International Conference ICITET 2024 in Pune — Electromagnetic Speed Breakers.
- Ms. Swarali Mahajan and Mr. Shivkumar Mole presented and published a paper under the guidance of Prof. Sandip Sahane at the International Conference ICITET 2024 in Pune — Automatic Plant Irrigation System.



Dr. Hema S. Koli
Assistant Professor



Prof. Sandip C. Sahane
Assistant Professor



- Sandeep Dane, Rohit Dalavi, Tushar Chavan, Vaishnavi Divekar, and Komal Chavan presented and published a paper under the guidance of Prof. Siddharth Suman at the National Conference NCETEM 2024 in Nashik — E-Brake: Revolutionizing Safety in Electric Vehicles.
- The department conducted a First-Year Project Exhibition in April 2024.
- The department conducted a One-Week ISTE-approved STTP on Recent Developments in Advanced Materials from 2nd January to 6th January 2024.
- Prof. Sandip Sahane received the “Excellence in Academic Award” for his contribution to academics, and Prof. Asha Jadhav received the “Excellence in Admission Award” for her contribution to admission-related work.
- Prof. Sandip Sahane was recognized by the Collector Office, Pune, for his valuable contribution to voter registrations.
- Dr. Vivek B. Korde published a research paper in the SCI-indexed, quartile-one journal Sensors and Actuators Reports.
- Dr. Prajakta Deshmukh, Dr. Vivek B. Korde, Prof. Sandip Sahane, Prof. V. S. Dixit, and Prof. M. R. Pansare published book chapters in books with ISBNs.
- Dr. Prajakta Deshmukh and Prof. Asha Jadhav filed patents.
- Dr. Vivek B. Korde and Prof. V. S. Dixit registered a copyright.
- Prof. Vidyadhar S. Dixit, Prof. Seham Khaleel and Prof. Shivmurthy B. Kshetri registered a Canadian copyright titled “Analyzing the shear force diagram(SFD) and bending moment diagram(BMD) of statically determinate beams in Structural Engineering”.
- Dr. Vivek B. Korde serves as an academic editor and editorial board member of various research journals and reviews manuscripts for Elsevier and other reputed journals.
- Industrial/academic tours were conducted to Dipex and COEP, Pune.
- A first-year student developed an E-vehicle under the guidance of Dr. Suhas Khot.



Ms. Vrushali Nagawade
Score : 10/10 SGPA
Academic Year : 23-24 Sem-I



Mr. Pravin Mote
Score : 100/100 in Engg. Maths-I
Academic Year : 23-24 Sem-I



Ms. Prerana Wale
Score : 100/100 in Engg. Maths-II
Academic Year : 23-24 Sem-II





Dr. Atul B. Pujari
HoD, Civil Engineering



Civil engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including works like roads, bridges, canals, dams, and buildings. The Department of Civil Engineering was started in the year 2009. The department offers under-graduate course B.E Civil Engineering and post-graduate course in M.E. Civil- Structural Engineering.

The department focuses on the overall development of the students through innovative teaching and learning. One of the main objectives of the Department is to produce qualified, competent and employable civil engineering graduates to cater the needs of industry and society by imparting requisite knowledge and training in different areas of Civil Engineering and emerging technologies.



Dr. Santosh K. Patil
Professor



Prof. Abhijeet Undre
Assistant Professor





Our Achievements...

- Civil Engineering Department has published 18 Papers in International Journal, 02 Patents Published, 05 Copyrights are registered in academic year 2024-25
- Over 200 alumni completed post-graduation in reputed institutes.
- More than 40 students completed M.S. in CIVIL ENGINEERING from international Universities
- Every year Civil Engineering students proved their excellence in co-curricular activities and extra curricular activities.

Special Features...

- Universal Testing Machine (UTM) Consultancy
- Industrial Visits & Site Visits
- Students Training & Faculty Development Programme.
- Students Employed in Government Sector as well as national & multinational companies.
- The Department provides a guide for preparation of competitive examination and GATE exam preparation.
- Department signed MOU with, Institute of Engineers, ISTE, Indian Geotechnical society's students chapter Pune, construction engineering Research Foundation
- Alumni of the department frequently visit the department and conduct Guest lectures for students.



Mr. Dnyaneshwar Kale
Rank 9 at SP Pune
University - 2016



Department Highlights/Achievements...



Dr. Nikita J. Kulkarni
HoD, Computer Engineering



Dr. Umar Mulani



Dr. Aparna Hambarde



Dr. Shankar Amalraj

The inception of the Computer Engineering Department in 2009 marked a pivotal moment in addressing the growing demand for skilled engineers in the realm of computing. Presently, our department offers an undergraduate program in Computer Engineering with an intake capacity of 180 students. Additionally, we have introduced a postgraduate course in Computer Engineering with two specializations which are Computer Engineering & Computer Networks with intake capacity of 12 each, to further cater to the diverse interests and aspirations of our students. Our overarching goal is to cultivate a cohort of adept Computer Engineers imbued with a strong sense of professionalism and ethical commitment. To realize this vision, we have assembled a team of proficient, dedicated, and deeply motivated faculty members who are committed to nurturing the next generation of technological innovators. Equipped with state-of-the-art laboratories boasting the latest computers and software, we maintain a student-to-computer ratio of 1:1, ensuring unfettered access to resources for our students. Moreover, our laboratories are equipped with 24x7 internet connectivity, facilitating uninterrupted access to assignments and projects. In addition to conventional classroom instruction, we place a significant emphasis on holistic development through specialized soft skills training programs. These initiatives, including personality development workshops, communication skills enhancement sessions, group discussions, and debates, are integral to honing our students' abilities and enriching their employability prospects. It's a continuous process aimed at empowering our students with the finesse to thrive in today's competitive job market. Notably, the department boasts a commendable track record of academic excellence, with consistently outstanding results.

The Department of Computer Engineering at KJ College of Engineering and Management Research is a vibrant center for academic excellence, innovation, and industry collaboration. Offering both Undergraduate and Postgraduate programs, the department is dedicated to producing skilled professionals equipped to meet global challenges in technology.

Faculty Strength :

- The department boasts a strong academic foundation, with 7 Ph.D holders contributing to advanced teaching, research, and innovation.
- Experienced and research-oriented faculty engaged in continuous professional development.
- Dr. Nikita Kulkarni authored a book titled "Artificial Intelligence in Healthcare," published by Alpha International Publications.



First prize in the Zensar-sponsored SheInspires Hackathon, Conducted at MIT ADT University, Loni kalbhori



Industrial Visit at RADIANT IT Services Pvt Ltd



3 days EduSkills Techcamp on AWS Cloud Foundation

Key Highlights / Achievements

- Equipped with a dedicated Dr. A. P. J ABDUL KALAM CENTRE OF EXCELLENCE in Artificial Intelligence to foster hands on learning and research.
- Strong placement record with students achieving top positions in reputed companies.
- Dr. Nikita Kulkarni & Dr. Shankar Amalraj has invited as a session chair for Springer Nature's 9th International Conference [ICTIS-2025] in Bangkok, Thailand.
- Ms. Sargam Puram from TE computer is a University Topper with 10/10 SGPA.
- Computer Department has organized a 3 days EduSkills Techcamp on AWS Cloud Foundation from 10-12th Feb 2025 for Third Year Students.
- Two National level ISTE approved Short Term Training programs are arranged for faculties on "Research Trends in Cloud Computing & Cloud Security" and "Augmented Reality & Virtual Reality"
- Industrial visit has been organized for TE students at "RADIANT IT Services Pvt Ltd" on 27th March 2025.
- Advanced labs and active participation in national-level hackathons and competitions like Smart India Hackathon.
- IETE Project Competition, Avishkar, IBM Hackathon etc.
- Library Katta is open to all students and is an initiative aimed at promoting awareness of current technical advancements.
- Active participation in social impact projects like donations of computers to rural schools, blind school visits, and orphanage support.
- Strong alumni mentoring current students in career planning and placements.

Research & Innovation

The Department of Computer Engineering is deeply committed to advancing research in emerging technologies such as Artificial Intelligence, Machine Learning, IoT, Blockchain, and Healthcare Informatics. Our faculty and students are actively engaged in impactful research, presenting at prestigious international conferences and publishing in reputed journals.



7th position in IBM Hackathon among 68 groups



Technical Quiz Competition Quizzzy Buzzer



IOT Project Exhibition



Dr. Vinod Ingle



Dr. Prachi Thakar



Dr. Shilpa Bhosale

Key Research Contributions

- ❖ Dr. Nikita Kulkarni, Dr. Shankar A, and Prof. Geetanjali Bansod presented their paper on “Development of optimized Ensemble Machine Learning model through XG Boost and Random Forest for UPI fraud Detection” at the 9th International Springer Nature Conference [ICTIS-2025] in Bangkok, Thailand.
- ❖ Dr. Nikita Kulkarni published a paper on “From Theory to Practice: Simulating Zero Trust Architecture with Python for Cybersecurity” in a Scopus-indexed ASEAN Journal on Science and Technology for Development.
- ❖ Dr. Aparna Hambarde published a paper on “Machine Learning Based on Graphs for Predictive Modeling in Intricate Network Data” in a Scopus-indexed journal.
- ❖ Dr. Umar Mulani presented a paper on “Smart Contracts with Blockchain for Enhanced Supply Chain Traceability and Transparency” in the 15th International Conference [ICCCNT 2024] at IIT Mandi.
- ❖ Dr. Vinod Ingle presented research on “AI-Powered Healthcare Solutions for Accessible and Efficient Medical Care” in the 15th International Conference [ICCCNT 2024] at IIT Mandi.
- ❖ Prof. Mayuri Vengurlekar & Prof. Satish Yedge published a paper on “Eyes on Health: A Deep Learning Approach for Ocular Disease Detection” in an IEEE ICBDS 2024 at VIIT.
- ❖ Prof. Prashant Raut contributed a paper on “Disease Prediction with Ayurvedic Remedies and Hospital Recommendations using ML/DL” in an IEEE ICBDS 2024 at VIIT.
- ❖ Prof. Ulka Bansode published an Indian Patent on a Machine Learning-based Predictive Model for Leaf Nutrient Deficiency Detection in Crops.
- ❖ Prof. Ashwini Kamble published a paper on “Decentralized Blockchain Based disk rental system with enhanced security and efficiency” in International Journal of Data Science and Artificial Intelligence (IJDSAI)
- ❖ Prof. Sheetal Nirve published a paper on “A Research Paper on AI Music Generator Using Streamlit and Music Gen” in International Journal of All Research Education & Scientific Methods
- ❖ Prof. Harsha Jain published a paper on “A Survey On AR Educational Applications: Enhancing Learning through Augmented Reality” in International Journal of Data Science and Artificial Intelligence (IJDSAI)

Research Ecosystem Highlights

- ❖ Dedicated Research Groups in AI, ML, IoT, Healthcare Informatics, and Smart Systems.
- ❖ Faculty and students have together contributed to:
 - o 30 journal articles
 - o 1 Book Publication
 - o 32 copyright filed
 - o 1 Indian Patent
 - o 6 Conference Papers
- ❖ International Exposure through participation in Conferences held at venues like IIT Mandi, Bangkok, and IEEE platforms.
- ❖ Emphasis on interdisciplinary research combining technology with agriculture, medicine, finance, and social good.



IOT Project Exhibition



Avishkar 2024 - Project Competition



Clean Campus Drive

Student Achievements

- Mr. Om Rakibe, Ms. Sargam Puram, Mr. Tejas Shinde, and Mr. Kartik Shingde received the Second Runner-up Prize of Rs. 10,000 at the VOIS Inter-College Tech Marathon 2025, held at Hotel Parc Estique, Viman Nagar, Pune."
- Ms. Sargam Puram from TE won the First Prize among 1500+ participants in the Zensar-sponsored SheInspires Hackathon, conducted at MIT ADT University, Loni Kalbhor, on 31st January 2025.
- 60 Students received an Eduskills certificate for TechCamp on AWS Cloud Foundation.
- Mr. Samarth Dhoble from SE got a participation certificate in innovateYou Techathon 2.0 – National level 24 hours hackathon competition at AISSM IOIT PUNE.
- TE students of Computer Engineering secured 7th position in the IBM Hackathon among 68 groups of 34 different Engineering colleges.
- Mr. Vinay Bavaskar represented Pune District in the Inter-Zonal Football Tournament organized by SPPU.
- Mr. Swapnil Bankar completed 4 sorties in a Virus SW 80 Garud Microlight Aircraft at NDA and served as Commanding Officer, 3 MAHAIR SQN.

Industry Collaborations & MoUs

- Collaborations with: E & ICT Academy (IIT Kanpur), COEP Virtual Labs, Eduskills Foundation.
- Signed 9+ MoUs with reputed industry partners, including: Codezone IT Solutions, Veracity Software, HashTrix Technologies, Dronasthra Energy, and more.
- Internships, guest lectures, and live projects to enhance practical exposure.

Salient Features

- Hands-on, project-based learning model.
- Internship-driven curriculum with strong industry linkage.
- Encouragement for innovation, leadership, and entrepreneurship.
- Active participation in technical clubs, coding forums, and research groups.



Technical Quiz Competition-Quizzzy Buzzer



Hadoop Workshop for TE Students



VOIS Hackathon-2nd Runner Up [Team KJCOEMR]



Prof. Mohit Kumar Shakya
I/C HoD, Electrical Engineering



Prof. Pallavi D. Dalvi
Assistant Professor

Established in 2010, the Electrical Engineering Department (EED) has produced numerous skilled engineers who have found positions in prestigious organizations both domestically and internationally. Currently, our department offers a comprehensive four-year undergraduate program (B.E. in Electrical Engineering) and is in the process of introducing a Master's program in Electrical Engineering.

As with any field of science, Electrical Engineering is experiencing rapid evolution. At KJ College of Engineering and Management Research (KJCOEMR), EED, we pride ourselves on being at the forefront of delivering high-quality engineering education. Our engineering and computer laboratories boast cutting-edge facilities, while our curriculum, developed in collaboration with SPPU, undergoes regular revisions to incorporate the latest advancements beyond the university syllabus.

We are fortunate to have a team of qualified, experienced, and dedicated faculty members, supported by equally committed laboratory staff. Through our partnership with COEP Tech University, we have access to invaluable resources that drive our pursuit of excellence.

Our faculty members possess expertise in emerging research areas such as Renewable System Applications, Electric Vehicles, Power Systems, Control Systems, and the Application of AI-ML in Electrical Systems. This breadth of knowledge offers students various opportunities to explore and contribute to their areas of interest.

I extend a warm welcome to prospective students and all stakeholders to join us at the Department of Electrical Engineering at KJCOEMR in Pune.



Prof. Balwant Singh Bisht
Assistant Professor





Our Achievements....

- Nikita Mehrtre has received package of 10 lacs per annum from Rinex Technology
- Faculty and students together have published more than 10 international conference papers based on Artificial Intelligence applications in Electrical Domain.
- One final year project is in collaboration with Solar Electronics, COEP Tech. University Pune.
- 80% of BE students secured placements in core companies through the campus placement drive in AY 2023-24 & AY 2024-25.
- Teaching methodology updated to emphasize new technology learning and skill development for students.
- Dr. Rohan Kulkarni presented a paper on Machine Learning applications in renewable energy at Vassa University, Finland.
- More than 15 guests lectures from COEP TU faculties have been organized by the department from AY 2023-24 onwards.
- Signed 9 MoUs with the various industries to improve industry involvement in the teaching learning process.
- BE students Mr. Himanshu, Mr. Shubham, and Mr. Mayuresh, along with Prof. Amruta Takawale, registered a copyright with the Government of India for the topic "IoT Enhanced Three-Phase Induction Motor Control and Protection using PLC."
- Four BE students successfully completed a training program at COEP Tech University on renewable systems and electric vehicles.
- The Electrical Department published a total of 05 journal articles, 12 international conference papers, 2 national conference papers, in 2024-25.





Dr. Neha S. Shahare

HoD, Electronics & Communication Engineering (ACT)



About

Education embedded with information and communication technology paves the robust way for creating a just and equitable society. Ultimately, quality of life of the people is dependent on the quality of education they receive.

The Advanced Communication and Technology Engineering (ACT) program is a specialized engineering discipline designed to equip graduates with the knowledge and skills to address the evolving challenges of modern communication systems. Many ACT programs incorporate hands-on learning experiences through labs and projects, allowing students to apply theoretical knowledge to real-world scenarios; it is typically falls under the broader field of Electronics and Telecommunication Engineering (E&TC).

ACT programs delve deeper than fundamental communication engineering principles, placing a strong emphasis on recent advancements in the field. This often includes in-depth study of:

- **5G Technology:** Students gain a comprehensive understanding of the technical aspects of 5G, including Massive MIMO (Multiple-Input and Multiple-Output), beam forming, device-to-device communication, and millimeter wave technologies.
- **Emerging Communication Systems:** The curriculum explores advanced communication protocols and architectures that are shaping the future of connectivity.
- **Wireless Communication:** This area explores the mechanisms of data transmission through various mediums like radio waves and fiber optics.
- **Network Security:** Students acquire knowledge of securing communication networks from cyber threats.
- **Internet of Things (IOT):** The program delves into the communication technologies that enable interconnected devices within the IOT ecosystem.



Dr. Shaveta Thakral
Assistant Professor



Prof. Sujata Dandel
Assistant Professor





Women's day Celebration



Tree Plantation Program



Visit at Mapro Industry

Our Achievements....

- Mr. Saiesh Sasane scored 9.14 SGPA in Second Year Engineering SPPU Exam.
- Mr. Atharv Shete scored 8.00 SGPA in Second Year Engineering SPPU Exam.
- Winners of the internal Smart India Hackathon (SIH) selection round for national-level participation at KJ College of Engineering Management & Research, Pune.
- Prof. Shaveta Thakral successfully completed the NPTEL Cloud Computing course, certified by IIT Kharagpur.
- Tejas Mulekar earned certifications in Gravity Competition (Circuit Simulation), Poster Presentation, NLPC-IETE (Student Attendance using RFID), and various curricular courses.
- Ayush Naik earned certifications in Gravity Competition (Circuit Simulation), Poster Presentation, NLPC-IETE (Student Attendance using RFID), various curricular courses, and participated in the state-level project competition and exhibition 'Genesis Technofair'.
- Dr. Neha Shahare presented paper titled 'Anticipating Solar Photovoltaic Panel output on day in advance with Gaussian in Mixture Model' in IEEE conference at Vasaa University Finland.
- Dr. Neha Shahare published book chapter titled 'Smarter Power grids: Quantum computing for enhanced energy distribution, by IGI Global Publishing House, Scopus indexed.
- Organized an industrial visit to Mapro Foods, Mahabaleshwar, providing students with exposure to industrial automation and embedded systems in a real-world food processing environment.
- Enthusiastic celebration of Teacher's Day, highlighting strong student-faculty engagement.



Saiesh Sasane
SGPA: 9.14



Atharv Shete
SGPA: 8.00



Bhumika Chaudhari
SGPA: 7.77



Adinath Khedkar
SGPA: 7.23



Teacher's Day Celebration



Shiv Jayanti Celebration



Workshop Training



Dr. Pramod U. Chavan
HoD, E&TC Engineering



Ms. Priyasingh Ahirwar
SPPU Gold Medalist 2016-17



Mr. Prakash Gavade
SPPU Gold Medalist 2017-18



Dr. Rajendra Zope
Associate Professor



Prof. Shilpa Kale
Assistant Professor

The department of Electronics and Telecommunication (E&TC) Engineering came into existence in 2009 by the approval of All India Council of Technical Education (AICTE) New Delhi. The program has been affiliated to Savitribai Phule Pune University, Pune. Department of Electronics & Telecommunication has maintained pace with the cutting edge technology through research, tie up with the industries, updated laboratories etc. The department is equipped with outstanding infrastructure and boasts of a unit of learned and dedicated faculty members who work with zeal and enthusiasm to provide a vibrant and optimum learning environment to the students. It helps to acquire the skills which are required to excel in today's competitive environment. Faculty and Students have published many research papers at National and International conferences and journals. Few of them received recognition awards. The department has established Institute of Electrical and Electronics Engineers (IEEE) Student Branch, IETE Students' Forum (ISF) and Electronics & Telecommunication Engineering Student Association (ETESA). The department has well-established library other than central library for easy and fast access to books, data sheets, project reports etc.

In order to ensure high standards of education, the department has constantly upgraded itself by adding fully furnished and well-equipped laboratories to supplement the theory courses. The qualities inculcated into the students make them not only good engineers but good human beings also. We as E & TC Family believe in serious academic pursuit and encourage radical and original thinking which paves the way for creativity and innovative ideas for societal development.



In-house development of Sensors in Automation and Embedded System and RTOS Lab



An ISTE-approved One Week STTP on Incorporating Universal Human Values in Technical Education.



Visit to the CII NexGen Mobility Show 2024 at Moshi, Pune.



Avishkar 2024, Research Competition, in Association with SPPU, Pune

Our Achievements

- Ms. Priya Ahirwar and Mr. Prakash Gavade were awarded the Gold Medal in Final Year Electronics and Telecommunication Engineering (E&TC) in the April/May 2016 and April/May 2017 examinations, respectively, by Savitribai Phule Pune University, Pune.
- A Faculty Orientation Workshop on Basic Electronics Engineering for the First Year Engineering (2024 Pattern) NEP-2020 compliant curriculum structure was organized under the aegis of the Board of Studies (E&TC), Savitribai Phule Pune University.
- The department has organized an ISTE-approved one-week STTP on 'Incorporating Universal Human Values in Technical Education' and 'Recent Trends in EV and Renewable Energy Sources'.
- The department has organized IETE National Level Project Competition – 2025.
- Mr. Atharva Kadam, Mr. Naved Shaikh, and Ms. Divya Chakor secured first place among 140 project groups in the IETE National Level Project Competition – 2025 (Round 1).
- Dr. Rajendra Zope, Prof. Vivek Ghanekar, Prof. Shilpa Kale, and Prof. Poonam Gham were awarded the Elite NPTEL Online Certification during the academic year 2024–2025.
- Dr. Pramod Chavan, Prof. Vivek Ghanekar, Prof. Shilpa Kale, and Prof. Rahimraja Shaikh were recognized for their excellence in academics and research.
- Dr. Rajendra Zope received the Library Best User Award for the academic year 2024–2025.
- Mr. Sanket Charge was honored with the KJEI Excellence Award for his achievements as a successful entrepreneur and CEO of 'Do It Infosystems'.



Faculty Orientation on NEP-2020 Based FE Engineering Curriculum – "Basic Electronics Engineering"



9th National Level Technical Symposium, GRAVITY 2K25



An alumni meet to facilitate interaction with current students.



IETE National Level Project Competition – 2025

प्रिया अहिरवार विद्यापीठात प्रथम

पुणे, ता. ९ : के. जे. अभियांत्रिकी महाविद्यालयाची विद्यार्थिनी प्रिया अहिरवार हिने चौथ्या (इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन) खात्रीवाई फुले पुणे विद्यापीठात प्रथम क्रमांक मिळवला, तिला विद्यापीठातर्फे सुवर्णपदक सोपविले जाईल असे ज्ञानेश्वर काले यांनी सांगितले. याच महाविद्यालयातील विद्यार्थी ज्ञानेश्वर काले यांनी स्वयंप्रयत्न अभियांत्रिकीमध्ये विद्यापीठात नववा क्रमांक मिळविला आहे.

प्रिया हिचे वडील दौड रेल्वे विभागात कार्यरत आहेत. प्रिया सध्या टेक महिंद्रा कंपनीत अभियंता म्हणून



पुणे : प्रिया अहिरवार हिला पदवीप्रदान करताना मान्यवर.

काम करीत आहे. तिच्या या यशाबद्दल संस्थेचे संस्थापक अध्यक्ष कल्याण जाधव, खजिनदार विनोद जाधव यांनी तिचे अभिनंदन केले आहे. आपल्या यशात आई-वडिलांचा पाठिंब्या, शिक्षकांचे मार्गदर्शन, महाविद्यालयातील

शिस्त आणि स्वतःच्या मेहनतीबद्दल सर्वांचे मिळालेले सहकार्य याचा मोठा वाटा आहे, असे या यशाबद्दल प्रिया अहिरवार म्हणाली. ज्ञानेश्वर काले सध्या स्पर्धा परीक्षांचा अभ्यास करीत आहे.



Prof. Gayatri S. Patil
HoD, Mechanical Engineering



Prof. Sagar S. Dol
Assistant Professor

The Department of Mechanical Engineering has been a cornerstone of the institution since its establishment in 2009. With an initial intake of 90 students for the undergraduate course (B.E.) and 12 students for the Post Graduate course (ME Design Engineering) in Mechanical Engineering, the department has consistently strived to provide quality education and practical training to its students. Affiliated to Savitribai Phule Pune University, the department boasts a dedicated faculty, state-of-the-art facilities, and a rigorous curriculum designed to prepare students for a successful career in the field of Mechanical Engineering.

At our institution, we are dedicated to continuously exploring and implementing inventive strategies to enhance the quality of education. We firmly uphold the principles of outcome-based education, placing a strong emphasis on tangible results.

Our department boasts a team of well qualified and experienced faculty members having specialization in Design, Automation, Production, CAD/CAM, Thermal, and Mechatronics. Our well-equipped laboratories feature high-end software commonly used in the industry. We prioritize student engagement through activities such as SAE-BAJA, SAE-GO KART, SPIRITUA, and participation in technical and cultural competitions at both national and international levels. Additionally, we have active student chapters of professional organizations like ISTE, IE(I), and the Mechanical Engineering Student Association [MESA].

With the rapid development in technologies such as AI, ML, IoT, Data Science, Data mining, Robotics and Electric Vehicles, the demand for mechanical engineers has expanded beyond traditional sectors. Their expertise is essential in developing innovative solutions and driving progress in a wide range of industries.



Prof. Gopal B. Patil
Assistant Professor



Our Pride Alumni



Sudendu Shah
CEO,
PRIDE Group of
Companies



Mr. Uday D. Bhosale
Deputy Engg (Class-I)
Water Resource Dept



Mr. Rohit Masal
Sales Tax Inspector,
MPSC



Mr. Gaurav Shinde
NVH Dept, ARAI
Pune



Our Achievements....

- Our Student Mr. Udaysingh Bhosale excelled academically, earning the prestigious SPPU Ranker Award in Second Year & Third Year Mechanical Engineering, Savitribai Phule Pune University Examination.
- Prof. Sagar Dol awarded for Excellence in Academics in 2024.
- Prof. Shivaji Dudhbhate awarded for Excellence in Admission in 2024.
- Prof. Gayatri Patil awarded by Excellence Award (Best Academician of the Year 2023).
- Prof. Rajusing Rathod awarded as Achiever of the year in Research Work in 2023.
- Prof. Gopal B. Patil awarded with Trinity Distinct Faculty of the Year-2022.
- BE Students Shubham Dake, Prathamesh Yadav, Ramdas Gavali Won the Best paper award in 2nd International Conference on Innovative Trends in Engineering and Technology under the guidance of Prof. S. T. Dudhbhate in 2024.
- Prof. Gayatri Patil published a paper entitled "Performance evaluation of a lightweight acrylic flat plate collector with natural flow integration in a hybrid photovoltaic-thermal (PVT) system" in Case Study in Thermal Engineering, March 2025.
- Prof. Sidharth Suman published a paper on "Numerical Investigation, modeling and Vibrational Dynamics of an Unbalanced rigid rotor with two offset discs levitated by air foil bearings" in Materials Research Forum LLC., Millersville PA, USA 2025.
- Department of Mechanical Engineering published 18 papers in International Journal in last year.
- Prof. Sagar Dol, Prof. Gayatri Patil, Prof. Shivaji Dudhbhate & Prof. Sameer Potdar published a Book on "Model Based Investigation of Nano Fluid Cooling for Electronics Component: Analysed Performance & efficiency" in Oct. 2023.





Dr. Sunita Deshmukh
HoD, Electronics Engineering (VLSI)



Prof. Rahimraja G. Shaikh
Assistant Professor



Prof. Pooja Pawar
Assistant Professor



Mr. Prakash P. Malvadkar

The department of VLSI Design and Technology was established in 2023 with the intake of 60 students for UG program. The department's goal is to create globally competent, VLSI-based professionals who can take on difficulties and provide larger-scale solutions to societal issues. The Department has qualified and experienced faculty in all the related fields of VLSI to open a wide range of career opportunities in various fields of VLSI design, chip design, fabrication, and testing. Emerging technologies like Artificial Intelligence (AI), 5G, the Internet of Things (IoT) and autonomous vehicles which rely heavily on VLSI solutions.

The VLSI group primarily focuses on large-scale circuit and device integration technologies, mainly VLSI, ULSI, WSI, SoC, and 3D-IC. These technologies combine billions of transistors onto a single semiconductor chip to create integrated circuits (ICs). The brains of today's electronics are these integrated circuits. They make possible developments in emerging technologies such as Machine Learning (ML), Artificial Intelligence (AI), Virtual Reality (VR), communications, computers, health care, defense, transportation, wireless sensor networks, and clean energy (IoT).

Over the last two decades, the industry has quickly moved from 180 nm technological nodes to sub-10 nm nodes today. An interdisciplinary approach combining electronics, applied physics, material science, etc., is required to describe the behavior and performance of devices with dimensions smaller than 50 nm, as traditional electronic models are no longer able to do so. The science and technology outlined above for creating incredibly small electronic components and integrated circuit systems collectively for the development of future Nano-electronics.



Shubham Badlani
SGPA 9.68 (Sem-II)



Awnindita Halder
SGPA 9.14 (Sem-II)



Bhoomi Kalingan
SGPA 8.86 (Sem-II)



Vaibhav Bhokare
SGPA 8.82 (Sem-II)



Akshada Pawar
SGPA 8.45 (Sem-II)



Our Achievements....

BOOKS PUBLISHED:

- Dr. Gaddam Sunil Kumar Published his book on “An Efficient Hardware Architecture for Multimedia Encryption” with ISBN: 978-620-6-78578-1 in LAP LAMBERT Academic Publishing, Dodo Books Indian Ocean Limited and OmniScriptum S.R.L publishing group, Republic of Moldova, Europe.
- Dr. Gaddam Sunil Kumar Published his book on “Analog VLSI Design: Techniques for Signal Processing and Communication”, ISBN: 978-81-977963-0-2 & E-Book 978-81-977963-2-6 in Deccan International Academic Publishers, India.
- Dr. Sunita P Deshmukh Published her book on “Analog VLSI Design: Techniques for Signal Processing and Communication”, ISBN: 978-81-977963-0-2 & E-Book 978-81-977963-2-6 is published in Deccan International Academic Publishers, India.
- Dr. Gaddam Sunil Kumar & Dr. Sunita P Deshmukh Published book on “Digital circuits” as per the SPPU 2019 pattern syllabus in Orange Publications.

SCI JOURNAL:

- Dr. Gaddam Sunil Kumar Published his research paper in “Power Control and Optimization for Power Loss Reduction Using Deep Learning in Microgrid Systems” in Electric Power Components and Systems with ISSN: 1532-5008.
- Dr. Gaddam Sunil Kumar Published his research paper in “Optimized CNN-based Brain Tumor Segmentation and Classification using Artificial Bee Colony and Thresholding” in International Journal of Computers Communications & Control, ISSN 1841-9844, ISSN-L 1841-9836.

PATENTS/GRANTS:

- Dr. Gaddam Sunil Kumar made his Indian Design Patent Grant on “A Novel Mini Rice Quality Testing Machine for Farmers” in Jan 2024.
- Dr. Gaddam Sunil Kumar published his Indian patent on " Optimizing EV Charging Station Operations Using IoT, Cloud Computing, and Machine Learning for Eco-Friendly Transportation" in Nov. 2024.
- Dr. Gaddam Sunil Kumar published his Indian patent on “Development of Smart Autonomous Water Quality Analysis vehicle (AQV) Using IoT and AI Strategies in Real Time Pond surface” in Oct. 2024.
- Dr. Gaddam Sunil Kumar published his Indian patent on "IoT-Enabled Precision Agriculture Monitoring System" in Jan 2024.





Prof. Samir G. Potdar
Training and Placement Officer
Email: tpo.kjcoemr@kjei.edu.in



TPO OF THE YEAR 2022

Key outcomes...

- 878 Offers in the last three academic years across all the streams.
- Highest package of 36 LPA
- Average package of 4.5 LPA
- 245 Exclusive Campus Drives conducted in the last 12 months giving
- Candidates placed with companies like Amazon, Infosys, Wipro, IBM, Atos Syntel, Atos Global, TCS, Tech Mahindra, Xoriant, Persistent, Hexaware, Hewlett Packard, Parkar Digital, Josh Technology, Tata Motors, Motherson Sumi, Sutherland Global and many more.
- More than 70 opportunities generated for candidates from each branch with an average package of 4.5 LPA
- Higher Education Training, Foreign language training, Entrepreneurship Development
- Cell –Conducted Workshops, Seminars and awareness sessions, Competitive Examination Preparation for students
- 40 + MoUs Signed with the various corporates with the objective of Internships and Placements.
- 10+ Pool campuses hosted and conducted for the Maharashtra region colleges.
- 200 Hrs of training in Aptitude, Soft Skills, Technology
- Collaboration with Zensar RPG Foundation, Rubicon, ByteXL, Ethnus Codemithra, GTT-Barclays, VOIS For Tech-Vodafone Internship Program, Edunet Foundation for Employability Program to create a future-ready workforce

Best Practices...

- Zensar ESD Program
- GTT Foundation ESD Program
- Edunet Foundation-Code Unnati SAP training
- EY- GDS Next Gen Employability Program
- VOIS For Tech-Vodafone Internship Program
- Ethnus Codemithra Campus Recruitment Training Program
- Rubicon Training Program
- ByteXL ELQ-Tech Training
- Industry Internships
- Qspider Incubation Training
- Global Quest Incubation Training
- Pentagon Space Incubation Training.
- Elevation CAD/CAE Training
- ExcelR Career Assurance Program
- IBM Skills Build Program

MoU Signed...

- GTT Foundation
- Zensar- RPG Foundation
- Edunet Foundation
- VOIS For Tech-Vodafone Internship Program
- GATE - I2E IMPERIAL
- Ethnus CodeMithra
- MyStudia
- Indovance Pvt Ltd
- SEED Infotech Ltd
- Eduskills Foundation
- Ensin Entrepreneurship Startup And Innovation Forum



Employability Skill Development Processes...

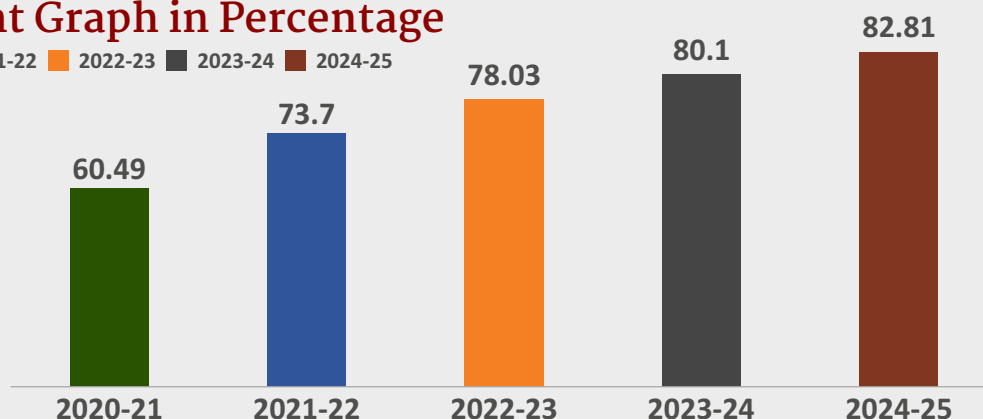
- Goal Setting Sessions
- Profile Building Sessions
- Resume Building
- Skill Gap Analyses
- Training Boot camps
- Soft Skills Sessions
- Aptitude Trainings
- Budding Technology Trainings
- Company specific Trainings
- Hire Train and deploy

Training Roadmap: 1st Year to Final Year

Name of Semester	CLO's (Course Learning Objectives) & Training Focus	Duration
1st Semester	Profiling Test Induction Program	15 Hours
2nd Semester	Career Counseling Goal Setting Feedback about profiling test	15 Hours
3rd Semester	Soft Skills	36 Hours
4th Semester	Aptitude Foundations	40 Hours
5th Semester	Aptitude & Technical	40 Hours
6th Semester	Advance Aptitude & Technical	40 Hours
7th Semester	Company Specific	40 Hours

Placement Graph in Percentage

■ 2020-21 ■ 2021-22 ■ 2022-23 ■ 2023-24 ■ 2024-25



About Centre of Excellence Lab...

K J College of Engineering and Management Research, Established Centre of Excellence in Artificial Intelligence on Birth Anniversary of Dr. A. P. J. Abdul Kalam (Missile Man of India) Dated 15th October 2022 to explore more opportunities for AI applications. It is focused on Model building in the fields of Image Classifications & Object Detection, Video Analytics, Speech Recognition, and Price prediction using machine learning. and later the centre of the excellence is renamed as Dr.APJ Abdul Kalam Centre of Excellence in Artificial Intelligence on 26th March 2025.



Prof. Ashwini Kamble

Major Objectives...

- Conduct theoretical and Applied research in the field of AI domains
- Provide training for upstream and downstream capacity enhancement for AI
- Disseminate information and encourage literacy about artificial intelligence.
- Offering Advanced programs for preparing the future workforce.
- Create External Funding and Opportunities for enhanced research.

Key Facilities...

1. C, C++, Jupiter Python, Eclipse, MongoDB, Cisco Packet Tracker
2. MATLAB 2024b, Wireshark, Xampy, Yaac, Libgraph
3. Turnitin/iThenticate, AWS Cloud Service.
4. Intel i7 processor, 12 Generation, SSD-512 GB, Ram-16GB, Graphics card: NVIDIA RTX 3050T 4GB, Windows 11 Home Edition- Total systems 24.

Grant received Details...

- A grant of Rs. 5,60,000 was received to the Centre of Excellence from Tirubaa Pvt. Limited, Pune
- The Grant Ceremony of the Centre of Excellence in Artificial Intelligence took place at KJ College of Engineering and Management Research in Pune on 28 November 2023.
- The event highlighted the collaboration between academia and industry in the field of artificial intelligence.
- Mr. Milind Kshirsagar, Founder and Chairman of Tirubaa Pvt. Limited, Pune, attended the ceremony, adding prestige to the event and symbolizing industry support for academic initiatives in AI.

Hackathon Participation

The KJCOEMR team won the first prize in the SheInspires Hackathon, which was sponsored by Zensar and held at MIT ADT University.

Publication Details

The faculty members published 13 papers, while students published 10. There were 3 patents filed, 1 copyright and 35 additional copyright registrations, and 1 book was published.

Completed Projects...

- Car Price Prediction: ML Random Forest & Flask App
- Driver Alert System for Drowsiness: Media pipe, Face mesh
- Plant Disease detection: CNN architecture self-designed layers
- Object detection & classification in traffic: pertained CNN
- Voice Assistant: Speech recognition, Pyttx3, PyAudio
- Face ,Gender Age Prediction: DeepFace ,OpenCV
- Simple Chatbot for college: NLTK

Major ongoing Projects...

- Image Classification and fraud detection using Kernal Matrix method.
- Augmented Reality for Education System.
- UPI fraud transaction detection system.
- Ensembling of Artificial Intelligence and IoT for Home Automation.
- Blockchain based Disk Rental system.
- Electric Vehicle Range Prediction using machine learning.
- Autonomous Vehicle Navigation for Electric Vehicles using machine learning.

Faculty Achievements in Global Arena...

Three faculty members published their research in a Finland-based IEEE-sponsored conference. Additionally, the research work of three other faculty members was accepted for presentation at a Springer-sponsored conference held in Thailand.



Inauguration
Ceremony



Rechristening Ceremony
(Dr.APJ Abdul Kalam CoE AI)



Session Chair-
ICTIS Thailand



Grant Receiving
Ceremony



Ms. Sargam Puram
Receives Cash Prize



Book Published
By Faculties



Paper Presented in Finland
(VAASA University)



Springer Paper
Presented in Thailand



Session Chair-
ICTIS Thailand



Grant Certificate



About EV & Start-up Lab...

K J College of Engineering and Management Research, Established Centre of Excellence in Electric Vehicle And Startup on Independent day 15th August 2023 to explore more opportunities for Electric Vehicle. First stage lab development work and lab inauguration is completed on 5th April 2024.

30+ innovative EV related project done successfully like :



Dr. Shankar Amalraj

Software Projects

1. Smart Charging Algorithms
2. EV Fleet Management System
3. Battery Health Monitoring App
4. Range Prediction Software
5. Integrated Navigation System
6. Energy Management System
7. Telematics Data Analysis Tool
8. Smart Grid Integration
9. Vehicle-to-Grid (V2G) Software
10. User-Friendly Charging App

Hardware Projects

11. Fast Charging Stations
12. Wireless Charging System
13. Advanced Battery Management System (BMS)
14. In-Wheel Motors
15. Lightweight Materials
16. Thermal Management System
17. High-Efficiency Power Electronics
18. Modular Battery Packs
19. Regenerative Braking System
20. Solar-Powered EV Charging Stations

Inter-disciplinary Projects

21. Urban Mobility Solutions
22. Sustainable Manufacturing Processes
23. Smart Parking Solutions
24. Energy Storage Solutions
25. Autonomous EV Systems
26. Renewable Energy Integration
27. Eco-Friendly Materials
28. Vehicle Communication Systems
29. Advanced Driver Assistance Systems (ADAS)
30. Recycling and Disposal Solutions



ELECTRIC VEHICLE AND STARTUP LAB (CENTRE OF EXCELLENCE)

Objectives...

- Conduct theoretical and applied research in the field of Electric Vehicles and advanced Technologies.
- Provide training for upstream and downstream capacity enancement for Electric vehicles
- Create External Funding and Opportunities.



Mr. Prakash P. Malvadkar

Research Associate & Lab Co-Ordinator

Our Research Work in EV Lab...

- Paper Publication by Faculties-04
- Paper publication by Students-01
- Innovative Hardware projects - 06
- Copyright-04
- Most emerging startup award

Committee Members of Centre Excellence in Electric Vehicle and Startup Lab:

- | | |
|--|---|
| ★ Dr. Suhas S. Khot (Chairman) | ★ Mr. Sagar V. Katake (Technical Assistant) |
| ★ Dr. Shankar Amalraj (Co-ordinator) | ★ Mr. Rushikesh Tule (Student Member) |
| ★ Mr. Prakash P. Malvadkar (Technical Advisor) | ★ Mr. Arif Pathan |
| ★ Dr. Vivek B. Korde (Faculty Member) | |



नवभारत

केजे इंजीनियरिंग कॉलेज की छात्रों का कमाल

**वेस्ट मटेरियल से बनाए
चार इलेक्ट्रिक वाहन**

■ पुणे, (सं). केजे इंजीनियरिंग कॉलेज की ओर से मेक इन इंडिया अभियान के अंतर्गत चार इलेक्ट्रिक वाहनों का उत्पादन कर उसे लॉन्च किया है. इसमें एक बार चार्जिंग से 40 किलोमीटर तक जाने वाली इलेक्ट्रिक साइकिल, 50 किलोमीटर तक जाने वाली इलेक्ट्रिक कारों साइकिल, सौर ऊर्जा पर चलने वाली बाइक और इलेक्ट्रिक गोल्फ कार्ट का समावेश है. गौरतलब की बात यह है इन वाहनों का निर्माण 'वेस्ट फॉर्म द वेस्ट' के पहल तहत वेस्ट मटेरियल से बनाया गया है.

40 किलोमीटर तक इलेक्ट्रिक साइकिल से कर सकेंगे सफर



इन वाहनों की तकनीक प्रॉब्लेम कम करने के लिए जेई इलेक्ट्रिक के लैब तैयार किया गया. इसमें बैटरी को चार्ज करने के लिए आवश्यक चार्जर पूरी तरह से प्रयोगशाला में

असेंबल किया जाता है. वाहनों में लिथियम आयन बैटरी का निर्माण लैब में तैयार किया गया. इन वाहनों की सरम्मत के लिए आवश्यक सभी मशीनें इस लैब में उपलब्ध हैं. मोटर नियंत्रक प्रोग्रामिंग और इलेक्ट्रॉनिक सर्किट डिजाइन और विकस प्रयोगशाला में किया जाता है. इस कार्यक्रम के लॉन्चिंग कार्यक्रम में सावित्रीबाई फुले पुणे विश्वविद्यालय के पूर्व प्राचार्य एम.एस. जाधव, महासचिव वी. नोद जाधव, संकुल के कार्यवाहक प्रबंधक, मेजर जनरल समीर कल्ला, केजे इंजीनियरिंग कॉलेज के प्राचार्य डॉ. सुप्रसन्न खोत आदि उपस्थित थे. इसे हस्तियों द्वारा सफलतापूर्वक वाहनों की टेस्ट किया गया. इस बार छात्रों को उनके योगदान के लिए पदक से सम्मानित किया गया.

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epaper.enavabharat.com

Entrepreneurship Development Cell

College have set up The Entrepreneurship Development Cell (EDC) with the object to boost innovation and entrepreneurial activities among students. Under this cell we encourage creative thinking and problem-solving, provide resources and mentorship to budding entrepreneurs, offer workshops and training in entrepreneurship, connect students with industry experts, investors, and successful entrepreneurs and help students incubate and grow their startup ideas.



Prof. Samir G. Potdar

Activities...

Sr. No.	Name of the Capacity Development and Skills Enhancement program
1.	3 Days workshop on Entrepreneurship Awareness Camp
2.	Entrepreneurship Development Program & Internships
3.	Entrepreneurship Awareness Camp. Received Fund Rs 20000/- From DST-NIMAT
4.	Signed MoU with ENSIN Entrepreneurship Startup And Innovation Forum, Pune-412101 to promote entrepreneurship & innovation, research and technology development along with support in creation sustaining & growth of startups.

Our Pride Alumni Entrepreneurs



Mr. Sudendu Shah, CEO

Pride Group • Times Men of the Year • India Icon
• Indian Achiever's Award • Worldwide Achiever's Award
• 30 Under 30 • Featured on TEDx



Mr. Pratik Dhumal, Founder

Engine Ensignt Research Agency Pvt. Ltd., India

Memorandum of Understanding (MoU) Signing Ceremony



ALUMNI ASSOCIATION

"Our Alumni Is Our Pride"

Aim...

Our Alumni is college assets, they are major factor which need to focus for creating roadmap of support from alumni in form of updating knowledge of our students by alumni addressing new technologies, helping in recruitment, conducting expert session etc.

Objective...

The main objective of the association is to create a forum to bring together and facilitate the exchange of information amongst its members and to give opportunities for its members to have firm link between almatmater and its members.

To build the roadmap of support from alumni in enhancing industry interaction through recruitment, expert session, workshops, seminar etc.



Dr. Aparna Hambarde
Assistant Professor

Success Stories of Alumni...

It is immense pleasure of KJCOEMR to publish success stories of our distinguished alumni who are doing excellent job in their respective stream and giving their outstanding performance. This activity of publishing success stories on social networks is just to appreciate alumni professional and personal progress. Every department used to identify such proud alumni and publish their success story on KJCOEMR college Facebook page and Instagram.

Alumni Meet...



National Service Scheme (NSS) & Social Awareness Activities

About NSS...

The main objectives are to engage in social service while pursuing higher education, by reaching out to people in the nearby community and conducting creative activities to raise awareness among them, fostering self-development through the medium of social service.

Objectives...

- To prepare oneself to understand and empathize with the relevant community.
- To gather information about the needs of the society and address its challenges in order to make the society active.
- To develop social bonding among ourselves and contribute to its development.
- To utilize our education to find practical solutions for personal or social problems.
- To develop the required qualities in ourselves that are necessary for effective leadership and to promote democratic behavior.
- To reduce the literacy gap between the literate and illiterate.
- To be prepared to provide assistance during times of crisis and natural disasters.
- To create awareness and awaken the desire to serve the underprivileged sections of society.



Prof. Sandip C. Sahane
NSS Program Officer



Shiv Swarajya Din



Anti-Narcotics Activity



Blood Donation



NSS Special Camp



Engineers' Day



Tribute to Ratan Tata Sir



Mahatma Jyotiba Phule Jayanti &
Dr. Babasaheb Ambedkar Jayanti



The District Level Fort Conservation
Activity



Pune Plogathon - Swachhata Abhiyaan

Aim..

To enhance the overall well-being of female students and both teaching and non-teaching women staff. The cell also bears the responsibility of conducting awareness programs focused on gender sensitization, women's rights, and women's empowerment

Objectives of WDC cell...

- To highlight the importance of health and hygiene.
- To create social awareness about the problems of women.
- To develop the self confidence of women.
- To develop multidisciplinary approach for over all personality development.
- To express women role in the society.



Prof. Amruta J. Takawale

Activities...

- On Friday, 7th march 2025, under the women development cell "International Women's Day" was celebrated in KJCOEMR. This year theme was "Accelerate the action". This program was specially conducted for all the female students & ladies staff members to boost and empower them.
- Rangoli, article writing, painting, poem competitions were held on 6th March at ground floor. We received a huge response for the competitions from students as well as staff. Some of the award winning painting, poem are included in this report. Participants explained their views about theme of year 2025 through their skill. Prizes and certificates were distributed to winners and coordinators.
- We organized awareness webinar on "Women health and Grooming" on Friday 23rd October 2024, 2.30-3.30 pm at Mechanical Seminar hall for all KJEI's Girl students and ladies staff members.
- Our staff members represented institute in "International Conference on Gender Equality and Women Empowerment (ICGEWE) 2025" organized by PVG on 8th March 2025. Their paper has been PUBLISHED IN peer reviewed journal, "NOLEGEIN Journal of Leadership and Strategic Management." paper entitled "Corporate leadership for gender equality."



Technical Activities

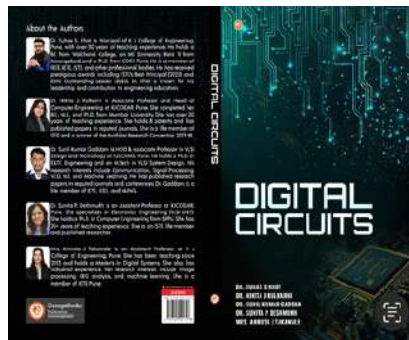


Achievements...

- The institution consistently contributes to academic literature through high-impact publications in reputed journals and conferences. In the current academic year, 50+ research papers have been published in Scopus, SCI, and UGC care journals, including IEEE Transactions, Elsevier, Springer Nature, Taylor and Francis, etc.
- Books and book chapters published with leading publishers such as Springer, Elsevier, Taylor & Francis, etc.
- 20+ Indian and International patents were registered, and 75+ copyrights are in the process of registration for the academic year 2024-25.
- The institute has established Centers of Excellence in Electric Vehicles and Artificial Intelligence, receiving over ₹30 lakhs in funding to support these initiatives.
- To showcase student innovations, the R&D cell has organized the IETE National Level Project Competition, NLPC 2025, Avishkar 2025, and the Innovative Idea Competition under the 9th National Level Technical Symposium, GRAVITY 2K25.
- Faculty presented papers at the International Workshop on Artificial Intelligence and Machine Learning for Energy Transformation (AIE) organized by the University of Vaasa, Finland.
- Faculty has participated in ICITIS 2025 as a session chair at the International Conference by Springer in Bangkok, Thailand.
- To encourage student research, the institute supports publications in peer-reviewed journals and participation in project exhibitions.
- The institute has signed over 20 MoUs with leading organizations, including TCS, Infosys, and Zensar Tech. These partnerships support student internships, joint research initiatives, and advanced technical training.
- The college has received numerous accolades for academic and research excellence. The institute organized expert sessions for students and faculty on IPR, research paper writing, and publishing, aimed at fostering academic excellence and promoting innovation.



Students participated in Innovative Idea Competition



DIGITAL CIRCUITS – a comprehensive textbook authored by the esteemed faculty members of KJCOEMR.



Prize distribution of IETE National Level Project Competition, NLPC 2025



Received grant of Rs. 5,32,000/- for Centre of Excellence in Electric Vehicles from ACEX Enterprise PVT



Poster presentation in Research Competition "Avishkar 2025"



Faculty presented papers at the International Workshop on Artificial Intelligence and Machine Learning for Energy Transformation (AIE) organized by University of Vaasa, Finland.

Awards and Recognition



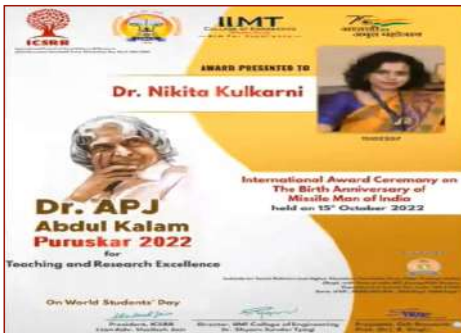
Excellence Education Award in Engineering



Best Principal Award



Felicitation at Cultural Festival



Dr. APJ Abdul Kalam Puruskar 2022



TPO of the Year 2022 Award



Most Emerging Startup Institute Award



National EduTech Innovative Summit Award



Appreciation for Mera Maati Mera Desh Programme



Appreciation for Computer Literacy Program at Z.P. School Bhivari.



Award in National Level Start-up Competition



Best Contribution in Creating Awareness about Voting Registration



Blood Donation



Opening Ceremony of "Maidan"



Kabaddi



Kho-Kho



Volley Ball



Athletics



Table Tennis



Football



Cricket



Men Cricket Team - Winner



Women Cricket Team - Winner

Prize Distribution from Auspicious
Hands of Celebrity

Students Cricket Team - Winner





संस्थापक अध्यक्ष कल्याण जाधव, कार्यकारी संचालक मेजर समीर कल्ला, तांत्रिक संचालक डॉ. अजय फुलंबरकर, विद्यार्थी व विकास कल्याण अधिष्ठाता डॉ. हेमंत देशमुख, ग्रंथालयप्रमुख संतोष भापकर, प्राचार्य डॉ. सुहास खोत, डेलनेट पुणे विभागाचे वरिष्ठ नेटवर्क सहायक रोहितदास राठोड, प्राचार्य डॉ. सुहास खोत, ग्रंथालयप्रमुख संतोष भापकर उपस्थित होते. श्रेया तिवारी, रोहित पाल यांनी सूत्रसंचालन केले, तर डॉ. संतोष पाटील यांनी आभार मानले.



KJs Educational Institute (KJEI)

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