NEWSLETTER

- 2023-24 Edition





2024

DEPARTMENT OF ELECTRICAL ENGINEERING

HOD'S MESSAGE



Hello, Electrical Community,

I wanted to express my excitement as we embark on another year of growth and innovation within our department. The ever-evolving field of Electrical Engineering remains at the forefront of our focus, and this year, we are particularly enthusiastic about exploring the potential of Electrical vehicles and other emerging technologies.

Our faculty's unwavering dedication and our students' boundless enthusiasm continue to drive us forward. As we progress, I encourage you to stay engaged by attending our guest lectures and participating in our workshops. Together, let's continue to bridge the gap between theory and practice.

I want to extend my heartfelt appreciation to our faculty and students for their hard work and dedication. Here's to a year of pushing boundaries and shaping a tech-driven future.

BEST REGARDS,
DR. VIJAY PATIL
HEAD OF ELECTRICAL DEPARTMENT

Newsletter Committee

Staff Coordinator



Mr. Krunalkumar Gandhi Assistant Professor

Student Coordinator



Arti Patil



Rutuja Mali



Anjali Marathe



Bhumika Mali

Institute Vision

To achieve excellence in engineering education with strong ethical values.

Institute Mission

To impart high quality Technical Education through :

- Innovative and Interactive learning process and high quality, internationally recognized instructional programs.
- Fostering a scientific temper among students by the means of a liaison with the Academia, Industries and Government.
- Preparing students from diverse backgrounds to have aptitude for research and spirit of Professionalism.
- Inculcating in students a respect for fellow human beings and responsibility towards the society.

Department Vision

To build electrical engineers with a global perspective and a strong dedication to Societal service.

Department Mission

M1: To transform the students from diverse background into skilled electrical engineers.

M2: To enhance industrial interaction to meet the changing industrial needs.

M3: To serve society with deep awareness of social responsibilities and ethical values.





One week Workshop on Industrial Approach In Electrical & Electronics



One week hands on practice electronics workshop "Industrial Approach in Electrical & Electronics" workshop was organized to impart practical experience and bridge the gap between theoretical knowledge and its application. The workshop, held from 01/09/2023 to 06/09/2023, was conducted by Mr. Sanjay Chaudhari of the Electronics Study Centre, Nashik. Attendees gained invaluable hands-on experience, real-world insights, and skills necessary for success in the industrial landscape.

CONVERGES'24 - "WASTE TO WATT" AND "ELECTROTOY"

The Department of Electrical Engineering recently participated in the "Converges'24" national-level technical event hosted by the R. C. Patel Institute of Technology, Shirpur. As a part of this event, the students of the electrical engineering department organized two fascinating events - "Waste to Watt" and "Electrotoy". These events aimed to showcase innovative solutions for waste management and introduce the participants to the world of electrical toys. The event was a grand success and received an overwhelming response from the students and faculty alike.



Expert Talk on Automation Solution of Wipro PARI



The Department of Electrical Engineering has recently organized a highly informative and engaging expert talk on "Automation" Solution of Wipro PARI", which took place on February 15th, 2024. The event featured two distinguished speakers: Mr. Ajit Kulkarni, the Head of Field Service at Wipro PARI, and Mr. Jadhav, the HR Kunal Manager Recruitment. The main objective of this talk was to provide students with an in-depth understanding of Wipro PARI's cuttingedge automation solution while inspiring and motivating them.

Alumni Talk on Scope of Data Engineers

20th of February 2024, the the Department of Electrical Engineering organized an alumni talk on "scope of data engineers" to inform, inspire, and empower individuals keen on pursuing a career in data engineering. Tushar Sagar Sharma, a Data Engineer at Datametica in Pune, presented the talk. The talk focused on highlighting the scope, opportunities, and pathways within the field of engineering, providing valuable insights and guidance to those interested in this exciting and rapidly growing field.



Alumni Talk on Microservices architecture design using java springboot



Electrical Engineering Department, RCPIT, Shirpur organized an Alumni Talk on "Microservices architecture design using java springboot" on 26th August 2023 by Mr. Jayraj Pawar. The objective of an alumni talk is to have a comprehensive understanding of microservices architecture, its implementation using Java Spring Boot, and its significance in the contemporary software development landscape.

Alumni Talk on Emerging Technologies in Electrical Engineering

Electrical Engineering Department, RCPIT, Shirpur organized an Alumni Talk on "Emerging **Technologies** in Electrical Engineering" on 26th August 2023 by Mr. Govind Salunke. The objective of an alumni talk is to enlighten current electrical engineering students about the latest advancements and trends shaping the exploring cutting-edge By technologies such as renewable energy, Internet of Things (IoT), artificial intelligence (AI), and electric vehicles.



The Sustainable Energy Solutions Hackathon-2023

The Energy Club of the Department of Electrical Engineering organized the Sustainable Energy Solutions Hackathon in 2023, which took place on October 26th and 27th. The event brought together 50 participants from diverse interdisciplinary fields, all working towards developing sustainable energy solutions. Ten teams were formed, each engaging in intensive coding and prototyping sessions with the guidance of experts.





On the final day of the hackathon, October 27th, teams presented their innovative solutions and competed for recognition and awards. The event was a success, with ten impactful projects being produced.

Winning projects, including the Power Tracking, Complaint Monitoring and Resolving Systems, and Energy from Waste, both Agriculture demonstrated creativity and feasibility in addressina sustainable energy challenges.

The Sustainable Energy Solutions Hackathon showcased how collaborative efforts can drive innovation towards a cleaner and more sustainable energy future.

Alumni Talk on Recent Trends in Electrical Automation (PLC & Robotics)

Electrical Engineering Department, RCPIT, Shirpur, organized an Alumni Talk "Recent **Trends** in Electrical on Automation (PLC & Robotics)" on 27th February 2024 by Mr. Krushna Nimba Baviskar. The alumni talk on Recent Trends in Electrical Automation (PLC & Robotics) aims to provide insights into the latest advancements in PLC and robotics technology, fostering knowledge exchange and networking and inspiring current students explore innovative applications and career opportunities in the field.



Alumni Talk on Exploring PLC Drives and SCADA

On the 18th of March 2024, the Department of Electrical Engineering organized an alumni talk on "Exploring PLC Drives and SCADA" to inform, inspire, and empower individuals keen pursuing a career in data engineering. Gaurav Wani, an **Automation** Electrical Engineer at Fox Solutions in Nashik, presented the talk. The aim of the talk is to create a valuable learning experience that empowers students to in excel their careers, leverage emerging technologies, and contribute to the ongoing evolution of PLC drives and SCADA systems.



JOURNAL PUBLICATION

Mr. Vinitkumar Vasantbhai Patel

Paper Title - A Systematic Kidney Tumour Segmentation and Classification Framework Using Adaptive and Attentive-Based Deep Learning Networks With Improved Crayfish Optimization Algorithm

Journal - IEEE Access

Paper Title - Extraction of Atrial Activity using Independent Component Analysis based on Blind Source Separation

Journal - Indian Journal of Technical Education

Paper Title - Electric Vehicle Charging Station Performance And Impact On Electrical Distribution Networks

Journal - European Chemical Bulletin

Paper Title - Performance and Impact of Electric Vehicle Charging Station Electrical Distribution Networks

Journal - ISTFOnline

Mr. Yogesh Kalidas Kirange

Paper Title - Electric Vehicle Charging Station Performance And Impact On Electrical Distribution Networks

Journal - European Chemical Bulletin

Paper Title - Enhancing Power Quality in Textile Industry: A Holistic Investigation of VFD induction Motor Drives

Journal - IJTE Journal

Paper Title - Smart Energy Meter: A Comprehensive Survey on Maintaining Power Consumption and Customer Requirement

Journal - International Journal of Advance Studies and Growth Evaluation

Paper Title - Optimization of PID controller parameters for an SMIB system using a hybrid butterfly particle swarm optimization approach

Journal - International Journal of Advanced Technology and Engineering Exploration

Paper Title - Innovative Approach to Enhance Stability: Neural Network Control and Aquila Optimization Integration in Single Machine Infinite Bus Systems

Journal - Advance Technology in Innovation

Paper Title - Performance and Impact of Electric Vehicle Charging Station Electrical Distribution Networks

Journal - ISTEOnline

Mr. Rupesh Shantaram Patil

Paper Title - Electric Vehicle Charging Station Performance And Impact On Electrical Distribution Networks

Journal - European Chemical Bulletin

Paper Title - Performance and Impact of Electric Vehicle Charging Station Electrical Distribution Networks

Journal - ISTEOnline

Mr. Sachin Yashwant Sayais

Paper Title - Electric Vehicle Charging Station Performance And Impact On Electrical Distribution Networks

Journal - European Chemical Bulletin

Paper Title - Performance and Impact of Electric Vehicle Charging Station Electrical Distribution Networks

Journal - ISTEOnline



JOURNAL PUBLICATION

Mr. Krunalkumar Jitendrakumar Gandhi

Paper Title - Electric Vehicle Charging Station Performance And Impact On Electrical Distribution Networks

Journal - European Chemical Bulletin

Paper Title - Smart Energy Meter: A Comprehensive Survey on Maintaining Power Consumption and Customer Requirement

Journal - International Journal of Advance Studies and Growth Evaluation

Paper Title - Performance and Impact of Electric Vehicle Charging Station Electrical Distribution Networks

Journal - ISTFOnline

Mr Nilesh Suresh Mahajan

Paper Title - Electric Vehicle Charging Station Performance And Impact On Electrical Distribution Networks

Journal - European Chemical Bulletin

Paper Title - Smart Energy Meter: A Comprehensive Survey on Maintaining Power Consumption and Customer Requirement

Journal - International Journal of Advance Studies and Growth Evaluation

Paper Title - Performance and Impact of Electric Vehicle Charging Station Electrical Distribution Networks

Journal - ISTEOnline

CONFERENCE

Mr. Yogesh Kalidas Kirange

Paper Title - Study on Growth of Electric Vehicles in India: A Review

Conference - IEEE Bombay Section 2023-3rd Asian Conference on Innovation in Technology

Paper Title - Precision Tuning of PID Controller Parameters for Dynamic Stability Enhancement in GPSS-SMIB Systems: The HB-PSO Optimization Approach

Conference - ASCIS 2023 - 2nd International Springer Conference on Advancement in Smart Computing & Information Security

Paper Title - Advancements in Power System Stability: FOPID Control Optimization using Harris Hawk Algorithms in SMIB Systems.

Conference - 6th IEEE INTERNATIONAL CONFERENCE on "Emerging Smart Computing & Informatics" (IEEE ESCI-2024)

Mr. Rupesh Shantaram Patil

Paper Title - Study on Growth of Electric Vehicles in India: A Review **Conference -** IEEE Bombay Section 2023-3rd Asian Conference on Innovation in Technology

Mr Nilesh Suresh Mahajan

Paper Title - A Rational Cooperative Foraging Based Grey Wolf Optimizer **Conference -** International Conference on Information System and Management Science (ISMS 2023)

Mr. Vinitkumar Vasantbhai Patel

Paper Title - Sola Powered, Multi Use, Remote Controlled Farm robot **Conference -** IEEE 6th Parul University International Conference on Engineering and Technology(PiCET-2024)

WORKSHOP/FDP/STTP/TRANING/TEACHER TRAINING

Dr. Vijay Shrinath Patil

Title - Recent Trends in Renewable Energy Source **Conducted By -** JSPMs, Rajarshi Sahu COC, Pune

Title - Educational Tools for Teaching **Conducted By -** NITTTR, Chennai

Mr. Nadeem Akhtar

Title - 21st Century Skills for Teachers **Conducted By -** Maulana Azad National Urdu University

Title - Artificial Intelligence (AI) in Education **Conducted By -** Maulana Azad National Urdu University

Title - Academic Writing for Teachers **Conducted By -** Maulana Azad National Urdu University

Mr Yogesh Kalidas Kirange

Title - Recent Trends in Renewable Energy Source **Conducted By** - JSPMs, Rajarshi Sahu COC, Pune **Title** - Educational Tools for Teaching

Conducted By - NITTTR, Chennai

Mr Rupesh Shantaram Patil

Title - Recent Trends in Renewable Energy Source **Conducted By -** JSPMs, Rajarshi Sahu COC, Pune

Title - Educational Tools for Teaching **Conducted By -** NITTTR, Chennai

Mr. Sachin Yashwant Sayais

Title - Recent Trends in Renewable Energy Source **Conducted By -** JSPMs, Rajarshi Sahu COC, Pune

Title - Educational Tools for Teaching **Conducted By -** NITTTR, Chennai

Mr. Krunalkumar Jitendrakumar Gandhi

Title - Recent Trends in Renewable Energy Source **Conducted By -** JSPMs, Rajarshi Sahu COC, Pune

Title - Role of IOT in Smart Systems and Infrastructure **Conducted By -** OP jindal University, Raigarh

Title - Educational Tools for Teaching **Conducted By -** NITTTR, Chennai

Mr Nilesh Suresh Mahajan

Title - Sustainable Technologies & Energy Management of Hybrid Microgrid **Conducted By -** National Institute of Technology Rourkela

Title - Educational Tools for Teaching **Conducted By -** NITTTR, Chennai

Mr Amit Mahire

Title - Outcome Based Education **Conducted By -** SNJB's K.B.J CoE

Mr. Vinitkumar Vasantbhai Patel

Title - Machine Learning Using Python

Conducted By - NITTTR, Chennai

Title - Ensuring Research Integrity: A Digital Hygiene Approach with Blockchain Technology

Conducted By - Sri Krishna Arts and Science College, Coimbatore

Title - Cognitive Computing for Smart Applications

Conducted By - Vishwakarma Institute Of Information Technology, Pune

Title - Next Generation Artificial Intelligence

Conducted By - Vishwakarma Institute Of Information Technology, Pune

PATENT

Mr Yogesh Kalidas Kirange Mr. Krunalkumar Jitendrakumar Gandhi Mr Nilesh Suresh Mahajan Mr. Sachin Yashwant Sayais Mr Rupesh Shantaram Patil Dr. Vijay Shrinath Patil

Electric Vehicle Battery Fault Diagnosis Method and Device base on Artificial Intelligence.

Congratulations, Dr. Nadeem Riyaz Ansari!



We are delighted to celebrate the successful defense of your thesis, "Investigation of Remote Sensing Images Using Deep Neural Network," at SVKM's NMIMS (Deemed to be University), Mumbai. Your work represents a significant contribution to the field of remote sensing and AI, and we look forward to seeing the impact of your research in both academia and industry.

Wishing you continued success in your future endeavors!

STUDENT RESULT - ODD SEMESTER EXAMINATION (2023-24)

Second Year



Kumavat Komal SGPA - 8.54



Mali Rutuja SGPA - 8.31



Girase Bhagawat SGPA - 8.2

In the odd semester examination of the academic year 2023–24, a total of 65 students from the S.Y. B.Tech program participated. Among them, 46 students successfully passed the examination. The distribution of SGPA (Semester Grade Point Average) among the passed students is as follows: 1 student achieved an SGPA between 9.00 to 10.00, 5 students attained an SGPA between 8.00 to 8.99, 7 students obtained an SGPA between 7.00 to 7.99, 13 students scored an SGPA between 6.00 to 6.99, and 13 students received an SGPA between 5.00 to 5.99. Additionally, 26 students secured an SGPA between 0.00 to 4.99. **The overall pass percentage for the examination was recorded at 70.76%.**

Furthermore, the individual subject-wise performance of faculty members is as follows: Mr. J. S. Shaikh achieved a pass percentage of 52.30% for the EM-III subject, Mr. Nadeem Akhtar attained a pass percentage of 73.84% for the ECT subject, Dr. V.S. Patil received a pass percentage of 92.30% for the AE subject, Mr. K.J. Gandhi obtained a pass percentage of 95.38% for the EM&I subject, and Mr. R.S. Patil secured a pass percentage of 80% for the EEGS subject.

Third Year



Patil Pranjal SGPA - 8.74



Marathe Ashwini SGPA - 8.7



Patil Neha SGPA - 8.7

In the odd semester examination of the academic year 2023-24, a total of 53 students from the T.Y. B.Tech program participated. Among them, 51 students successfully passed the examination. The distribution of SGPA (Semester Grade Point Average) among the passed students is as follows: 13 students attained an SGPA between 8.00 to 8.99, 18 students obtained an SGPA between 7.00 to 7.99, 14 students scored an SGPA between 6.00 to 6.99, and 6 students received an SGPA between 5.00 to 5.99. Additionally, 2 students secured an SGPA between 0.00 to 4.99. **The overall pass percentage for the examination was recorded at 96.23%.**

Furthermore, the individual subject-wise performance of faculty members is as follows: Mr. S. Y. Sayais achieved a pass percentage of 100% for the EM/C-II subject, Mr. R. S. Patil attained a pass percentage of 98.11% for the PSA subject, Mr. N. S. Mahajan received a pass percentage of 96.22% for the EME subject, Mr. B.P. Patil obtained a pass percentage of 100% for the ETU subject, and Mr. V. V. Patel secured a pass percentage of 100% for the IOT subject.



Sonawane Prerna SGPA - 8.9



Koli Saurav SGPA - 8.52



Khatal Sunil SGPA - 8.48

In the odd semester examination of the academic year 2023-24, a total of 37 students from the Final Year B.Tech program participated. Among them, 37 students successfully passed the examination. The distribution of SGPA (Semester Grade Point Average) among the passed students is as follows: 15 students attained an SGPA between 8.00 to 8.99, 16 students obtained an SGPA between 7.00 to 7.99, 05 students scored an SGPA between 6.00 to 6.99, and 01 students received an SGPA between 5.00 to 5.99. Additionally, **The overall pass percentage for the examination was recorded at 100%.**

Furthermore, the individual subject-wise performance of faculty members is as follows: Mr. B. P. Patil achieved a pass percentage of 100% for the SGP subject, Mr. Y. K. Kirange attained a pass percentage of 100% for the EDC subject, Mr. K. J. Gandhi received a pass percentage of 100% for the PSOC subject, Mr. N. R. Ansari obtained a pass percentage of 100% for the RM subject.

BAJAJ ENGINEERING SKILLS TRAINING (BEST) CERTIFICATION PROGRAM

Bajaj Auto Ltd. has recently launched BEST, its flagship corporate social responsibility (CSR) initiative aimed at providing training in the latest and emerging technologies used in the manufacturing industry to engineers and diploma holders. Bajaj has collaborated with Symbiosis International University to establish the BEST center at Symbiosis Institute of Technology (SIT) in Pune. The BEST center in Pune is equipped with high-quality infrastructure, state-of-the-art equipment sourced globally, and the best faculty to train engineers and diploma holders in advanced manufacturing skills. Twelve students from the Department of Electrical Engineering have been selected for the Bajaj Engineering Skills Training (BEST) Certification Program.



Shweta Salunkhe



Aryan Jadhav



Bhavesh Rajput



Harshal Patil



Jayesh Chaudhari



Sushil Wankhede



Amol Pawar



Rohan Patil



Bhagyashri Patil



Umesh Patil



Siddhesh Bhavsar



Sandip Pawar

STUDENT PUBLICATION

Sushil Wankhede, Amol Pawar, Yogesh Mali

Paper Title - Smart Energy Meter: A Comprehensive Survey on Maintaining Power Consumption and Customer Requirement

Journal - International Journal of Advance Studies and Growth Evaluation

Shweta Salunkhe, Gaurav Girase, Jayesh Chaudhari, Neha Magare, Akansha B. Awachare

Paper Title - Enhancing Power Quality in Textile Industry: A Holistic Investigation of VFD Fed Induction Motor Drives

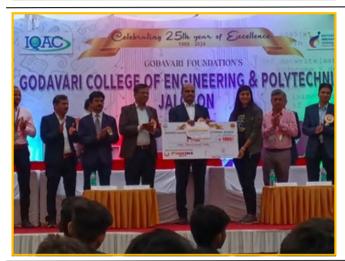
Journal - THE INDIAN JOURNAL OF TECHNICAL EDUCATION





Karanke Mohit Bharat, Yash Sashikant Mahajan, and Yash Dagadu Patil teamed up to showcase their innovation at the Maharashtra State Innovation Challenge 2023. Their project focused on the development of a new generation hydro power plant, which is a promising solution for clean energy production. The judges were impressed with their innovative idea and awarded the team with a cash prize of Rs. 1,00,000/- and a Certificate, recognizing their hard work and contribution to the field of sustainable energy.

2



Kamini Rajput from Second Year Electrical Engineering, R. C. Patel Institute of Technology, Shirpur, achieved a third rank in the Cad Madness event in Phoenix 2k24 held by Godavari College of Engineering and Polytechnic, Jalgaon, on 22/02/2024.

3

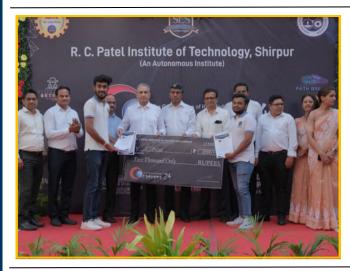


Badgujar Yukta Sunil from Second Year Electrical Engineering achieved Third rank in **TechExpo of Converges'24** held at R. C. Patel Institute of Technology, Shirpur, on 17/02/2024.



Jaykumar Rajput, Kamini Rajput, Nikita Girase, and Komal Kumavat achieved First prize in Electrotoy making under Converges'24 held at R. C. Patel Institute of Technology, Shirpur, on 17/02/2024.





Ravandale Dhiraj, Sonawane Om, Waswani Sumit, Sonawane Nishant achieved Second prize in Electrotoy making under Converges'24 held at R. C. Patel Institute of Technology, Shirpur, on 17/02/2024.

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Pranav Jagtap , Satpalsingh Rajput and Yash Bari achieved Third prize in Electrotoy making under Converges'24 held at R. C. Patel Institute of Technology, Shirpur, on 17/02/2024.

7



Jaykumar Girase from Second Year Electrical Engineering achieved second prize in the robo race held by KCES Engineering and Management College, Jalgaon.

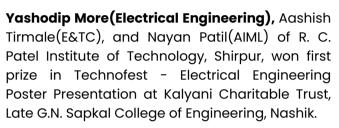
8



Yukta Sunil Badgujar and Vaishnvi Vilas Patil achieved **Second prize in Waste to Watt** under Converges'24 held at R. C. Patel Institute of Technology, Shirpur, on 17/02/2024.



Badgujar Yukta Sunil (Second Year Electrical) and her Team representing RCPIT as a Team FORTRANS at SVNIT, Surat, had achieved **Third Rank** in Pathfinder competition of Mindbend 2K24 held at SVNIT, Surat.





STUDENT PLACEMENTS

The primary objective of college placement programs is to facilitate the transition of students from academic environments to professional careers by assisting them in securing employment opportunities commensurate with their skills, interests, and qualifications. Notably, several reputable companies conducted recruitment drives at our campus to fulfill this aim.

- Two students, namely Saurav Koli and Vishal Beldar, secured positions at Zydus Lifesciences Limited with a package of 3.8 LPA.
- One student, Sunil Khatal, was placed in Fox Solutions Private Limited with a package of 5.47
- Seven students, namely Harshal Patil, Aryan Jadhav, Bhavesh Rajput, Sunil Wankhede, Jayesh Chaudhari, Darshan Mali, and Yogesh Mali, received offers from Mungi Engineers Pvt. Ltd. with a package of 2.5 LPA each.
- Two students, Vaibhavi Jamadar and Gaurav Girase, secured positions at CapitalVia Global Research Limited with a package of 3.5 LPA.
- One student, Sarang Patil, obtained a placement at Ambetronics Engineers Pvt Ltd with a package of 2.85 LPA.
- One student, Kalyani Patil, secured a position at FinoFY Technologies Private Limited with a package of 3.5 LPA.
- Four students, Yash Chaudhari, Anand Jadhav, Yogendra Sonawane, and Shubham Bhoi, received offers from Gartech Equipment, Pune, with a package of 2.5 LPA each.
- Two students, namely Kalyani Patil and Vaishnavi Pawar, secured positions at Endo Par Formulations Pharma, Indore with a package of 3.6 LPA.















Sunil Wankhede







Bhavesh Rajput









Gaurav Girase





Sarang Patil







Yogendra Sonawane **Anand Jadhav**

Shubham Bhoi













Umesh Patil

Rohan Patil

Sandip Pawar

Siddhesh Bhavsar

Amol Pawar

In the academic year 2023-24, 11 of our students successfully secured placements through the "Bajaj Engineering Skills Training" Program.

The details of their placements are as follows:

- Aryan Jadhav, Shweta Salunkhe, and Jayesh Chaudhari were selected by Varroc Engineering with a package of 6 LPA.
- Harshal Patil was selected by Vertiv Energy with a package of 6 LPA.
- Sushil Wankhede was selected by S M Auto with a package of 3.6 LPA.
- Siddhesh Bhavsar was selected by Advik HiTech Pvt. Ltd. with a package of 3.5 LPA.
- Sandip Pawar was selected by Nahars Engineering with a package of 3 LPA.
- Rohan Patil and Amol Pawar were selected by Belrise Industries Limited with a package of 3 LPA.
- Bhavesh Rajput was selected by Flash Pvt. Ltd. with a package of 3 LPA.
- Umesh Patil was selected by Rucha Engineering with a package of 3 LPA.

These placements exemplify the effectiveness of the college's placement initiatives in facilitating students' entry into the professional workforce, thereby contributing to their career advancement and the fulfillment of organizational goals.