A Report On

Emerging Research Trends in Engineering (ERTE) - 2025

on

AI FOR SMART CITIES AND INDUSTRY 5.0

Date:

26th & 27th July 2025

Organized by:

IEEE KSV STUDENT BRANCH IN COLLABORATION WITH THE IEEE GUJARAT SECTION.

Venue:

Brahmani Krupa Hall, SVKM Campus, Gate No. 1, Sector 23, Gandhinagar

Leadership Committee:

Chief Patron : Shri. Vallabhbhai M. Patel

Patron : Dr. Gargi Rajpara

General Chair: Dr. Chirag Paunwala

Finance Chair: Dr. Anjali Diwan

Organizing Chair: Dr. Hiren Patel, Dr. Rupesh Vyas and Dr. Himani Trivedi

Program Chair: Dr. Amit Ved and Dr. Pooja Shah

Program Committee: Dr. Ashish Phophalia, Dr. Mahmadasraf A. Mulla, Dr. Hardik Pathak, Dr. Mita Paunwala, Dr. Jalpa Khamar, Dr. Parita Shah and Dr. Naran M. Pindoriya

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IEEE Gujarat Section | IEEE Kadi Sarva Vishwavidyalaya Student Branch

ERTE-2025

AI FOR SMART CITIES AND INDUSTRY 5.0

EMERGING RESEARCH TRENDS IN ENGINEERING

Topics to be covered

AI and Machine Learning Applications in Urban Infrastructure and Industrial Automation

Integration of IoT, Edge Computing, and AI for Real-Time Decision Making

Smart City Use Cases: Traffic Management, Energy Efficiency, and Public Safety

26th – 27th JULY, 2025

Brahmani Krupa Hall, SVKM Campus, Gate No.-1, Sector-23, Gandhinagar

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Kadi Sarva Vishwavidyalaya

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IEEE Gujarat Section | IEEE Kadi Sarva Vishwavidyalaya Student Branch

ERTE-2025

AI FOR SMART CITIES AND INDUSTRY 5.0

EMERGING RESEARCH TRENDS IN ENGINEERING

Dr. Sudeep Tanwar
Professor and Head of the Department, Department of CSE, Nirma University
Amalgamation of Blockchain and AI for building Healthcare Applications

Dr. Mahipal Jadeja
Assistant Prof. of Computer Engineering, MNIT, Jaipur
Engineering Intelligence, Prompt Design, and Custom GPT for Industry 5.0 Workflows

Mr. Samir Bhatt
Senior Technical Lead, einfochips, Ahmedabad
Smart Traffic and Solutions

Ms. Kruti Davda
Environment Lead, Oizom, Ahmedabad
AI for Air: Real-Time Environmental Intelligence for Smarter Cities and Industries

Mrs. Dhrushi Pansuriya
Oizom, Ahmedabad
AI for Air: Real-Time Environmental Intelligence for Smarter Cities and Industries

Mr. Neil Harwani
Director, Harwani Systems (OPC) Private Limited
AI for Smart Cities

Mr. Jugal Oza
Senior Engineer, einfochips, Ahmedabad
AI in Industrial Automation and Robotics

26th – 27th JULY, 2025

Brahmani Krupa Hall, SVKM Campus, Gate No.-1, Sector-23, Gandhinagar

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ERTE-2025

AI FOR SMART CITIES AND INDUSTRY 5.0

EMERGING RESEARCH TRENDS IN ENGINEERING

PANEL DISCUSSION

Moderator

Mr. Sameer Kulkarni

Senior Vice President,
Decimal Point Analytics

Dr. Hiren Patel

Principal, VSITR
Kadi Sarva
Vishwavidyalaya

Mr. Vicrumnaug Vuppalapaty

Founder and CTO of Fiscal Ox Cloud Pvt Ltd

Dr. Mahipal Jadeja

Assistant Prof. of Computer Engineering,
MNIT, Jaipur

TOPICS TO BE COVERED

- AI and Machine Learning in Urban Infrastructure and Industrial Automation
- Integration of IoT, Edge Computing, and AI for Real-Time Decision Making
- Smart City Use Cases: Traffic Management, Energy Efficiency, and Public Safety

VENUE LOCATION

26th July 2025 | **3:45 PM - 4:30 PM**

Brahmani Krupa Hall, SVKM Campus, Gate No. 1, Sector-23, Gandhinagar

TECHNICAL CO-SPONSOR Resourceful | IEEE Signal Processing Society Gujarat Chapter | IEEE computer society Gujarat Chapter | IEEE Gujarat Section IES-IAS-PELS Joint Chapter | IEEE PES Power & Energy Society

Participation Engagement

Participation Overview

ERTE-2025 saw an impressive turnout with a total participation count of 171 students. These participants represented a diverse group of 15 colleges from across Gujarat.

- LDRP – Institute of Technology and Research, Gandhinagar
- Vidush Somany Institute of Technology & Research, Gandhinagar
- Bholabhai Patel College of Computer Studies**,** Gandhinagar
- SHRI M.M. Patel Institute of Science and Research Technology, Gandhinagar
- SVKM Institute of Computer Studies, Gandhinagar
- Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar
- Pandit Deendayal Energy University, Gandhinagar
- Silver Oak University, Ahmedabad
- Sarvajanik College of Engineering & Technology, Surat
- Ganpat University, Mehsana
- Nirma University, Ahmedabad
- G H Patel College of Engineering & Technology Student Branch, Anand
- CEPT University, Ahmedabad
- Auro University, Surat
- Marwadi University, Rajkot

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    - **Session 3:** Smart City Transportation – Mr. Samir Bhatt
    - **Session 4:** Why Join IEEE? – Mr. Ankit Dave
    - **Session 5:** Panel Discussion – Experts from Industry and Academia
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Introduction

ERTE (Emerging Research Trends in Engineering) is the annual flagship event dedicated to celebrating and advancing excellence in engineering, research, and technological innovation. Organized under the aegis of IEEE Gujarat Section in collaboration with IEEE Kadi Sarva Vishwavidyalaya Student Branch, ERTE brings together a vibrant mix of academia, industry professionals, and emerging innovators on a unified platform to explore emerging trends, exchange ideas, and foster interdisciplinary collaboration.

The event aims not only to bridge the gap between industry and academia but also to inspire the next generation of engineers to pursue impactful research, think beyond boundaries, and contribute meaningfully to technological progress.

ERTE also serves as a launchpad for students and early-career researchers to showcase their innovative ideas and projects, fostering a spirit of creativity, entrepreneurship, and inquiry. By engaging with professionals across various domains, participants gain valuable mentorship, networking opportunities, and insights into the evolving demands of the industry. This interaction cultivates a culture of collaboration and continuous learning, which is essential for thriving in today's dynamic technological landscape.

Over the years, ERTE has evolved into a prestigious and impactful initiative within the academic and professional engineering community of Gujarat and beyond. Its continued success reflects the collective vision and commitment of IEEE Gujarat Section, IEEE KSV Student Branch, and all contributing faculty, coordinators, and volunteers. As ERTE 2025 unfolds, it carries forward this legacy with renewed enthusiasm amplifying the voices of emerging researchers, spotlighting transformative ideas, and championing a future driven by knowledge and innovation.

Day-1

Inauguration Ceremony

Time: 9:15 AM – 10:00 AM

Venue: Brahmani Krupa Hall, SVKM Campus, Gate No. 1, Sector 23, Gandhinagar

Commencement of the event:

The inauguration Ceremony commenced with a welcome address and key insights from dignitaries associated with IEEE and KSV. The event brought forward the vision, achievements, and future directions by the IEEE KSV.

Address by Dr. Gargi Rajpara (I/C Director, Principal LDRP-ITR, KSV)

- A brief history of Kadi Sarva Vishwavidyalaya (KSV)
- The growth and development of KSV over the years
- KSV's ongoing commitment to academic excellence
- The university's role in encouraging innovation, leadership, and student-centric initiatives.

Address by Dr. Amit Ved (Technical Activity Chair, Gujarat Section)

Dr. Amit Ved Sir highlighted the key objectives of the two-day event:

Focus on Artificial Intelligence (AI) and its application in real-life situations

- Motivation for students to create new projects and research ideas

- Understanding the difference between Blockchain and ChatGPT and their relevance in today's tech landscape

Address by Dr. Chirag Paunwala(Chair, IEEE Gujarat Section)

- Highlighted ERTE as a flagship event under IEEE Gujarat.
- Shared that 4–5 new Student Branches (SBs) were added, totaling around 30 active SBs across Gujarat.
- Gujarat Section achieved its membership target for 2025 ahead of time.
- Introduced SSR(Section Student Representative) Team to develop future leadership.
- Noted that students are now being sponsored for conferences.
- Emphasized upcoming industry-collaborated events.

Address by Dr. Deepak Mathur (Ex. IEEE Vice President-MGA)

- Applauded KSV's progress and diversity in engineering, medicine, and technology.
- Highlighted benefits of joining IEEE:
    - Access to global experts, workshops, projects, and leadership roles
    - Updates on modern technologies like IEEE AI, Metaverse, etc.
    - Global recognition and technical networking opportunities.

WIE (Women in Engineering) Affinity Group Inauguration at KSV

- Ms. Manisha Shah officially inaugurated the IEEE WIE Affinity Group at KSV.
- She also elaborated on the initiative that WIE supports.
- Shared upcoming state-wide activities under WIE.

SPS (Signal Processing Society) Student Chapter Inauguration at KSV

- Dr. Chirag Paunwala officially inaugurated the IEEE SPS Student Branch Chapter at KSV.
- The chapter aims to encourage research, innovation, and technical skill development in the field of signal processing.
- He also highlighted scholarship opportunities and conference sponsorships available under SPS.

Inauguration Vote of Thanks – Dr. Hiren Patel (Principal VSITR, KSV)

The inauguration ceremony concluded on a gracious note with a heartfelt vote of thanks delivered by Dr. Hiren Patel, Principal of VSITR, KSV. Dr. Patel began by extending his sincere appreciation to all the dignitaries, chief guests, and invitees, acknowledging the honor of their presence and the value they added to the event through their insights and support.

He emphasized the significance of their participation in making the occasion truly memorable and impactful. Dr. Patel also took a moment to recognize the unwavering efforts of the organizing committee and student volunteers, whose behind-the-scenes dedication and coordination ensured the smooth execution of every aspect of the event.

In his address, he offered special thanks to the distinguished speakers for sharing their expertise, perspectives, and thought-provoking ideas that enriched the audience and elevated the intellectual tone of the program. He also appreciated the cultural performers and contributors whose creativity and talent brought vibrancy and charm to the inauguration, making it both informative and enjoyable.

Dr. Hiren Patel concluded by expressing his hope that the spirit of collaboration, learning, and enthusiasm displayed during the inauguration would continue throughout the event. His warm and thoughtful words of gratitude reflected the collective appreciation of the institution and set a positive tone for the sessions that followed.

Session 1

Amalgamation of Blockchain and AI in Healthcare Applications

Date: 26/07/2025

Time: 10:00 AM - 11:15 PM

Speaker: Dr. Sudeep Tanwar (Professor and Head, Department of Computer Science and Engineering, Nirma University)

Dr. Sudeep Tanwar is a senior member of IEEE and currently serves as a professor at Nirma University. He also holds visiting professorships at prestigious institutes in the USA, Poland, and Romania. With an impressive research portfolio of over 450 publications, 30+ books, and an H-index of 83, he stands among the leading minds in wireless sensor networks, blockchain, and intelligent systems. He is also the vice chair of the IEEE Computer Society, Gujarat Section, and a recognized global contributor to research in blockchain integration, IoT, and AI for smart infrastructure.

In this enlightening session, Prof. Sudeep Tanwar discussed the convergence of Blockchain and Artificial Intelligence (AI) in modern healthcare applications. He emphasized the rising

importance of secure and intelligent systems in healthcare data management and shared insights into current trends, use cases, and future research directions. The session served as a gateway for students and professionals to understand the potential of these technologies in solving real-world challenges in the healthcare domain.

Understanding Blockchain vs. Cryptocurrency

Prof. Tanwar explained that Blockchain is the foundational platform that supports decentralized applications, whereas cryptocurrency is just one application built on it. Real-life examples like DigiYatra and CBSE certificate verification helped convey Blockchain's role in ensuring secure and tamper-proof records.

Role of a Blockchain Developer

Blockchain developers are responsible for creating smart contracts automated scripts that enforce rules, ensure transparency, and reduce human intervention in data processes.

Why Choose Healthcare for Blockchain Integration?

Healthcare involves sensitive data, making it ideal for Blockchain use. Prof. Tanwar emphasized that Blockchain's immutability and use of Merkle Trees ensure medical data cannot be altered, protecting patient privacy and record accuracy.

Interoperability and Data Sharing

Blockchain enables decentralized and efficient data sharing. Rather than storing large records, it stores hashed values, reducing cost and enhancing data verification across platforms.

Key Highlights

- Clinical Trials & Drug Traceability: Smart contracts automate tracking and standardize clinical processes.
- Insurance Billing Pipelines: Blockchain simplifies and secures claims processing in real-time.
- Genomic Research: Offers privacy-preserving solutions for donor data in biomedical research.
- EHR vs PHR: PHRs are patient-owned, while EHRs are institution-managed India’s DISHA platform is a real-world EHR example.

Session 2

Engineering Intelligence, Prompt Design, and Custom GPT for Industry 5.0 Workflows

Date: 26/07/2025

Time:11:30 AM - 12:45 PM

Speaker : Dr. Mahipal Jadeja (Assistant Prof. of Computer Engineering, MNIT , Jaipur)

Dr. Mahipal Jadeja holds a Ph.D. from DAIICT in Theoretical Computer Science, and his research spans a dynamic range of areas, including Generative AI, Graph Neural Networks, and AI-powered education. Beyond academia, Dr. Jadeja is a leading voice in accessible AI education. His YouTube channel CS Simplified has garnered over 3.75 lakh views, and his Python MOOC has been widely appreciated by learners. Notably, his project, Python Ki Pathshala, India's first bi-lingual GPT-powered tutor, earned him recognition by OpenAI in its official ChatGPT for Education newsletter.

In his session on Engineering Intelligence, Dr. Mahipal Jadeja Sir (Assistant Professor, MNIT Jaipur) delivered crucial insights for mastering prompt design and AI interaction. His central thesis: powerful AI outputs stem from well-crafted questions. He emphasized strategic

preparation developing targeted queries, preserving context, and sourcing expertise. By citing ChatGPT 3.5's training on a 570 GB dataset as an example, illustrated how understanding a model's scale enhances user engagement quality.

CREATE framework to optimize prompt design :

- C – Character definition: Assign a persona or role for the AI.
- R – Clear request: Clearly articulate the task and deliverables.
- E – Provide examples: Share sample inputs and outputs to guide style.
- A – Apply adjustments: Refine iteratively based on feedback.
- T – Type of output: Specify desired format e.g. narrative, table, or list.
- E – Enhancements and extras: Include tone, level of detail, and stylistic preferences.

In the second part of the session, Sir unveiled the concept of Custom GPTs—specialized AI assistants designed for domain-specific tasks. He compared them to an app store: instead of crafting new prompts each time, one selects or builds a tailored GPT. Platforms like Poe enable users to personalize these GPTs for varied use cases, such as customer service, content creation, or technical research.

To solidify the audience's understanding and ensure key takeaways were retained, Sir concluded the session with an engaging interactive quiz game. Designed to be both educational and enjoyable, the quiz served as an effective tool to reinforce the central themes and concepts discussed during the session.

The quiz questions were thoughtfully crafted to challenge the audience's recall, spark critical thinking, and encourage reflection on the session's core ideas. By the end of the activity, participants had not only tested their knowledge but also deepened their grasp of the subject matter in an interactive and fun-filled manner.

Key Takeaways:

1. Effective AI responses begin with careful planning and question framing.
2. The CREATE framework ensures structured, precise prompt design.
3. Avoid prompt overload, ambiguity, and neglecting feedback loops.
4. Utilize Custom GPTs via platforms like Poe to streamline task-specific AI deployment.
5. Interactive tools such as quizzes enhance understanding and retention.

Session 3

Smart City: Smart Transportation

Date: 26/07/2025

Time :2:00 PM - 3:15 PM

Speaker : Mr. Samir Bhatt (Senior Technical Lead, e-Infochips)

Mr. Samir Bhatt brings over 15 years of industry experience in developing advanced computer vision, AI/ML, and embedded solutions. He has led teams and architected solutions in image processing, edge inferencing, AI/ML pipeline optimization, and deep learning deployment on various platforms like NVIDIA, Qualcomm, Intel, and NXP. His work has supported real-time systems for traffic management, driver monitoring, and industrial inspection and has been featured in reputed publications including Intel Embedded Innovator and Embedded.com. A strong advocate for industry-academia collaboration, he regularly shares his expertise through lectures at leading universities.

The session focused on deploying smart solutions to improve urban transportation through AI, IoT, and automation. Mr. Bhatt highlighted how integrating real-time data into traffic systems can help manage congestion, improve public safety, and enable more efficient urban

mobility. He further explained how these smart solutions not only help in reducing traffic congestion, but also contribute to public safety by enabling faster emergency response, monitoring accident-prone zones, and improving road infrastructure planning. Additionally, such technologies pave the way for efficient urban mobility by supporting adaptive public transportation systems, real-time route adjustments, and sustainable travel options.

Vehicle-to-Infrastructure (V2I) Communication:

A major theme was V2I communication, where vehicles interact with infrastructure (like traffic lights or monitoring stations) to share and receive data. This allows for smoother traffic flow and intelligent response systems based on live road conditions.

AI-Powered ETA Prediction:

Mr. Bhatt explained how AI models are used to predict Estimated Time of Arrival (ETA) by processing live GPS data, road conditions, and traffic behavior. These insights support better transit planning and commuter experience.

Low-Light Image Enhancement:

For smart city surveillance, he emphasized the importance of low-light enhancement in camera systems. This ensures accurate monitoring and security even under poor lighting, especially in night-time or shaded areas.

Prompt Engineering for AI Systems:

The speaker briefly touched upon prompt engineering, explaining how well-crafted prompts can guide AI systems to perform better in real-time scenarios—useful in traffic control centers and automated monitoring systems.

Key Highlights

- V2I Communication: Vehicles interacting with infrastructure to enable intelligent traffic flow.
- ETA Prediction**:** AI-driven arrival estimates for better commuter planning.
- Low-Light Surveillance**:** Enhancing vision systems in dark environments for safety.
- Prompt Crafting**:** Using effective prompts to boost real-time AI system responses.
- Design with scalability and real-time performance in mind.
- Focus on data efficiency and interpretability.
- Always align with sustainable and impactful smart city goals.

Session 4

Why to Join IEEE ?

Date: 26/07/2025

Time: 3:30 PM - 3:45 PM

Speaker: Ankit Dave (Membership Development Chair, IEEE Gujarat Section)

The IEEE Membership Drive session at ERTE 2025 was aimed at promoting the value and impact of being a part of the IEEE global community. The session was conducted by Mr. Ankit Dave, Program Manager at Medallia and an active IEEE contributor.

He delivered a highly engaging talk focused on Strategies to boost IEEE student membership. Organizing awareness campaigns, technical workshops, networking events, participation in IEEE conferences and competitions, Mr. Dave emphasized that these activities not only strengthen student's technical skills, but also help in developing leadership qualities and enabling professional growth.

Key Takeaways:

IEEE Membership Benefits and Student Opportunities :

- Access to exclusive IEEE research papers and technical resources
- Regular updates on tech trends via IEEE Spectrum and newsletters
- Membership in global technical societies
- Discounted IEEE certifications and training programs
- Career development opportunities and industry exposure
- Mentorship from professionals and researchers
- Participation in global innovation challenges and hackathons
- Availability of scholarships, grants, and IEEE award
- Networking opportunities through local chapters and international events
- Leadership experience through roles in student branches and committees

Mr. Ankit Dave concluded his session with an inspiring message to the student community, emphasizing the immense value of being part of the IEEE's global network. He encouraged students to not only explore the wide range of academic, professional, and technical resources offered by IEEE but also to actively engage with its diverse community of professionals, researchers, and innovators around the world.

He stressed the importance of continuing their IEEE membership, highlighting how it serves as a gateway to lifelong learning, skill development, and career advancement. From access to cutting-edge research publications and international conferences to mentorship opportunities and collaborative projects, Mr. Dave outlined a clear path for students to grow both academically and professionally within the IEEE ecosystem.

His session left a strong and lasting impression on the attendees, offering them not just motivation but also a practical roadmap on how to leverage IEEE resources effectively. By sharing his own experiences and success stories from within the IEEE network, he reinforced the idea that consistent involvement and active participation can open doors to exceptional opportunities in both academia and industry.

Session 5

Panel Discussion

Date: 26/07/2025

Time: 3:45 PM - 4:30 PM

A highly insightful panel discussion brought together experts from academia and industry to explore how AI, IoT, and Machine Learning are transforming infrastructure, urban mobility, and industry automation in alignment with the goals of Smart Cities and Industry 5.0.

Moderator: Mr. Sameer Kulkarni (Senior Vice President, Decimal Point Analytics)

Panelists:

1. Mr. Vicrumnaug Vuppalapaty

Founder and CTO, Fiscal Ox Cloud Pvt. Ltd Innovator in cybersecurity and AI-based secure frameworks for cloud and IoT.

2. Dr. Mahipal Jadeja

Assistant Professor, Department of Computer Engineering, MNIT Jaipur Focused on custom GPT frameworks, prompt engineering, and AI productivity.

3.Dr. Hiren Patel

Principal VSITR, KSV

The importance of integrating Blockchain, Information Security, and AI for future-ready solutions. He highlighted that AI must be built on a foundation of secure and transparent systems, and encouraged students to explore these technologies together for impactful innovation.

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Session 6

Talk and Think Beyond AI - What AI Can't Do

Date: 26/07/2025

Time: 10:00 AM – 11:15 AM

Speakers: Mr. Kartik Dhokai - Co-Founder, Resourceful, Ahmedabad

Mr. Kartik Dhokai, a distinguished leader in the field of artificial intelligence, captivated the audience with his one-hour session titled "Talk and Think Beyond AI – What AI Can't Do." Widely recognized as one of India's Top AI Leaders and featured in the "40 Under 40" list by World Brand Affairs, Mr. Dhokai brings a wealth of knowledge and experience to the forefront of AI discourse. A TEDx speaker and a respected mentor at top-tier institutions such as IITs and IIMs, he also plays an influential role in evaluating early-stage startups, offering strategic insights into innovation and entrepreneurship.

In his session, Mr. Dhokai encouraged participants to move beyond conventional narratives and critically examine the limitations of AI exploring areas where human intuition, emotion,

and ethical reasoning still reign supreme. The session provided valuable insights into the evolving AI landscape, shedding light on the current capabilities of AI while also questioning its future scope and ethical boundaries.

The interactive nature of the session fostered a highly engaging environment, prompting curiosity, deep thinking, and lively discussions among attendees. Participants were not only listeners but active contributors to the conversation, as Mr. Dhokai posed thought-provoking questions and shared real-world examples that resonated with both students and professionals alike.

To further enrich the experience, the session concluded with a short AI-themed activity, designed to reinforce key takeaways through practical engagement. Additionally, an AI quiz was organized, testing participant's understanding of the concepts discussed. The winners were recognized with goodies, adding a fun and rewarding element to the enriching learning experience.

Overall, the session left a lasting impact, inspiring attendees to think more deeply about the future of AI and their role in shaping it.

Day-2

Session 1

AI for Air: Real-Time Environmental Intelligence for Smarter Cities and Industries

Date: 27/07/2025

Time: 10:00 AM – 11:15 AM

Speakers:

Ms. Kruti Davda (Environmental Lead, Oizom)

Mrs. Dhrushi Pansuriya (Project Manager, Oizom)

Ms. Kruti Davda:

Ms. Kruti Davda, Environment Lead, and Mrs. Dhrushi Pansuriya, Project Manager

Kruti Davda leads the Environment division at Oizom, where she integrates air quality science with AI-driven technologies to develop practical, scalable solutions for cities and industries. She focuses on innovative solutions to tackle air pollution and improve sensor-based monitoring systems. With a background in environmental engineering and years of hands-on research in sensor technologies and air quality analytics, she builds tools that are both scientifically grounded and operationally effective.

Ms. Dhrushi Pansuriya:

Ms. Dhrushi Pansuriya leads the deployment of real-time air quality monitoring solutions across 70+ countries. With an academic background in Environmental Engineering, she

focuses on designing edge-to-cloud IoT pipelines, AI-driven data workflows, and automation systems to improve both environmental insight and operational efficiency. Her work involves converting complex air quality data into actionable insights through real-time analysis and user-friendly visualizations.

This session focused on how advanced environmental monitoring tools powered by AI and IoT are transforming urban and industrial landscapes. Both speakers from Oizom emphasized the importance of real-time air quality intelligence in making data-driven and proactive decisions to build healthier, smarter cities.

Insights from Ms. Kruti Davda

Ms. Davda began by stressing the critical impact of air quality on public health, sustainability, and governance. She discussed the evolution of Air Quality Monitoring (AQM) from static stations to real-time, sensor-based systems enhanced by AI and IoT.

Key Takeaways:

Current monitoring systems lack actionable intelligence, which Oizom solves through smart, AI-powered hardware.

Four major AI capabilities in Oizom's system

- Outlier and anomaly detection in emission data
- Pollution spike prediction using meteorological inputs
- Source-event correlation for pollution causes
- Real-time alerts to authorities for immediate.

GIS-based visualization platform enables spatial-temporal analysis, making complex data easier to interpret.

A case study from North India demonstrated Oizom's capability to predict daily pollution levels using real-time data.

Insights from Mrs. Dhrushi Pansuriya

Mrs. Pansuriya provided a technical walkthrough of the Oizom platform, focusing on its architecture and tools used for large-scale air quality management. She highlighted how the core intelligence layer of the Oizom system transforms raw environmental data into actionable insights, enabling informed decision-making for city administrators and industries

alike. She presented real-world use cases where municipalities leverage Oizom dashboards to monitor air quality and enforce pollution control measures based on real-time and forecasted data. Concluding her talk, she emphasized the platform's flexibility, noting its high level of customizability and scalability to suit various geographic locations and environmental conditions.

Functional Components Explained:

- Dashboards for real-time monitoring
- Forecast modules for air quality prediction
- Cluster mapping to detect pollution zones
- Alert systems for automatic notifications and reporting

Analytics & Intelligence Features:

- Detection of pollution hotspots
- Anomaly detection and auto-flagging of inconsistent data
- Automated reporting workflows for quick decision-making
- Community management integration to involve stakeholders in awareness and response

Session 2

AI in Urban Mobility & Infrastructure

Date: 27/07/2025

Time: 11:30 AM - 12:45 PM

Speaker : Mr. Neil Harwani(Director at Harwani Systems OPC Pvt Ltd)

He holds a strong academic foundation with degrees in BE, MBA, and MTech, and has worked with global clients and renowned technology firms across various domains. As the founder of TechAndTrain, Mr. Harwani offers practical workshops, training, and consulting in areas such as AI, data analytics, cloud computing, Python, and entrepreneurship. His blog, Innovation Ideas, is a reflection of his deep commitment to simplifying complex concepts and making technology more accessible.

In this insightful session, the speaker explored how Artificial Intelligence (AI) is revolutionizing urban mobility and infrastructure. The discussion highlighted the integration of AI in managing traffic, public transport, and infrastructure planning ensuring cities become smarter, more efficient, and sustainable. It provided students and professionals with a practical perspective on AI-driven urban development.

Key Takeaways:

National AQI Monitoring & Smart Cities

The session began with an overview of India's National Air Quality Index (AQI) Monitor, showcasing how AI helps track and predict pollution levels in real time. This tied into an

introduction to smart cities, which use AI for optimized urban services, better governance, and environmental monitoring.

Role of AI in Smart City Development

AI plays a vital role in areas like intelligent traffic control, waste management, energy optimization, and public safety. Real-world examples demonstrated how data from sensors and IoT devices feed into AI systems to make cities more livable and efficient.

AI for Energy and Environment

The speaker emphasized AI's potential in energy management, including smart grids and demand forecasting. Environmental applications included air and water quality tracking, early warning systems for disasters, and sustainable urban planning.

Advanced AI Technologies

The session also covered **advanced AI technologies** like machine learning, computer vision, and neural networks that power autonomous vehicles, smart surveillance, and real-time analytics in urban infrastructure.

Key Highlights

- Smart Traffic Systems: AI reduces congestion through adaptive signal control.
- Pollution Forecasting: Predictive models help mitigate environmental impacts.
- AI in Energy Grids: Automates load balancing and improves energy efficiency.
- Public Transport Optimization: Enhances route planning and real-time updates.

Research Challenges

- Real-time data collection and processing
- Scalability of AI models in large cities
- Privacy in urban data handling
- Infrastructure compatibility and policy alignment

Session 3

AI in Industrial Automation and Robotics

Date: 27/07/2025

Time : 2:15 PM - 3:30 PM

Speaker : Mr. Jugal Oza (Senior Engineer, eInfochips)

He holds a Master's degree in Embedded Systems and brings with him strong expertise in building AI-enabled embedded and IoT solutions. With a focus on industrial automation, Mr. Oza has worked on a range of impactful technologies, including machine vision systems, predictive maintenance, and smart factory frameworks. His work bridges the gap between advanced AI algorithms and real-time industrial challenges, creating intelligent systems that enhance safety, efficiency, and decision-making across production environments.

This engaging session focused on how Artificial Intelligence (AI) is transforming industrial automation and robotics. The speaker highlighted how AI-driven systems are replacing traditional automation methods by offering greater adaptability, speed, and efficiency across industries.

AI vs Traditional Automation

Unlike traditional automation, which follows fixed instructions, AI introduces intelligent decision-making. It allows machines to learn from data, adapt to changes, and improve performance without constant human intervention.

Key Drivers of AI in Industry

AI is accelerating industrial processes due to:

- High-speed data processing
- Improved efficiency
- Adaptability to dynamic environments

These drivers are helping industries shift from rule-based systems to intelligent automation.

Evolution of Industrial Automation

Industrial automation has evolved from mechanical control to programmable systems. Today, Programmable Logic Controllers (PLCs) remain essential but are now integrated with AI to enhance functionality, reduce downtime, and predict failures.

AI-Powered Intelligent Systems

Modern factories are implementing AI-powered systems for real-time monitoring, quality control, and predictive maintenance. Tesla was cited as a key example, where AI manages production lines, robot arms, and supply chain optimization.

AI Techniques Used in Industry

- Machine Learning: For predictive maintenance and process optimization
- Computer Vision: For defect detection and robotic guidance
- Natural Language Processing: For human-machine interaction and system commands

Valedictory Ceremony

Date: 27/07/2025

Time : 4:00 PM - 5:30 PM

Speaker : Dr. Rupesh Vyas (Dean, Faculty of Computer Science, KSV)

The event concluded on a thoughtful and inspiring note with a valedictory address delivered by Dr. Rupesh Vyas, Dean, Faculty of Computer Science, Kadi Sarva Vishwavidyalaya (KSV). In his closing remarks, Dr. Vyas expressed sincere appreciation for the meticulous efforts and dedication demonstrated by the organizing committee, the insightful contributions made by the speakers, and the enthusiastic participation of attendees.

He emphasized the vital role such academic gatherings play in promoting a culture of continuous learning, collaboration, and knowledge exchange across disciplines. Dr. Vyas underscored the significance of platforms like IEEE in fostering innovation, encouraging interdisciplinary dialogue, and equipping students with the skills and mindset necessary to thrive in the evolving landscape of science and technology.

Certificates were distributed to students who attended the event. These students were from various IEEE Student Branches under the IEEE Gujarat Section. The certification aimed to recognize their active participation and encourage continued engagement in IEEE activities.

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Media Coverage of ERTE-2025

The Day 1 of ERTE 2025 (Engineering Research & Trends Engineering) has been featured in a reputed local publication, spotlighting the event's impactful beginning and the vibrant energy it has brought to the engineering and research community. This recognition is a testament to the collective commitment of our esteemed faculty, dedicated coordinators, tireless volunteers, and enthusiastic participants, who have all come together to celebrate and push the boundaries of innovation, interdisciplinary collaboration, and technological advancement.

કડી સર્વ વિશ્વવિદ્યાલય અને IEEE-KSV Student Branch દ્વારા " Emerging Research Trends in Engineering (ERTE-2025) કાર્યક્રમનો શુભારંભ

ભારત યુવા અભિયાન

ગાંધીનગર, તા.૨૭:કડી સર્વ વિશ્વવિદ્યાલય, IEEE-KSV Student Branch અને IEEE-Gujarat sectionના સંયુક્ત ઉપક્રમે બ્રહ્માણી કૃપા હોલ,સેક્ટર-૨૩, ગાંધીનગર કેમ્પસ ખાતે તા. ૨૬ જુલાઈ ૨૦૨૫ ના રોજ ERTE-2025 નું ભવ્ય શુભારંભ સવારે ૦૯:૧૫ વાગે સર્વ વિદ્યાલય કેળવણી મંડળ(કડી અને ગાંધીનગર)ના ચેરમેન તેમજ કડી સર્વ વિશ્વવિદ્યાલયના પ્રેસિડંટ માનનીય શ્રી વલ્લભભાઈ એમ. પટેલ સાહેબના શુભેચ્છા સંદેશ અને

કડી સર્વ વિશ્વવિદ્યાલયના ઈન્ચાર્જ ડાયરેક્ટર ડો. ગાર્ગી રાજપરાના વરદ હસ્તે કરવામાં આવ્યું. કાર્યક્રમની મંગળ શરૂઆત દીપ પ્રાગટ્ય અને પ્રાર્થનાથી કરવામાં આવી. કાર્યક્રમમાં ડો.ચિરાગ એન. પૌવાલા(chair-IEEE, Gujarat section), ડૉ. અમિત વેદ(Technical Activity chiar-IEEE,Gujarat Section), ડૉ. દિપક માથુર(Ex.vice President MGA-IEEE) ની ઉપસ્થિતિ પ્રેરક બની રહી.

કાર્યક્રમના પ્રથમ દિવસે ગાંધીનગર અને સમગ્ર ગુજરાતની ૧૭ જેટલી કોલેજ ના ૧૮૦ થી વધુ વિદ્યાર્થી ઓએ ભાગ લીધો હતો. 'Amalgamation of Blockchain and AI fro building Healthcare Applications', 'Engineering Intelligence', 'Smart Traffic solutions', 'Talk and Think Beyond AI' વિષય ઉપર વિષય નિષ્ણાત તરીકે ડો.સુદીપ તંવર, ડો., મહિપાલ જાડેજા, શ્રી. સમીર ભટ્ટ, માર્ગદર્શન આપેલ હતું. આ ઉપરાંત એક પેનલ ડિસ્કશનનો સેશન પણ યોજાયેલ હતો. કોલેજના વિદ્યાર્થીઓમાં સમગ્ર કાર્યક્રમ બાબતે ભારે ઉત્સાહ જોવા મળ્યો હતો. ઉપરોક્ત કાર્યક્રમ નુ આયોજન સર્વ વિદ્યાલય કેળવણી મંડળ(કડી અને ગાંધીનગર)ના ચેરમેન તથા કડી સર્વ વિશ્વવિદ્યાલય ના પ્રેસિડેન્ટ માનનીય શ્રી વલ્લભભાઈ એમ. પટેલ સાહેબના માર્ગદર્શન હેઠળ ડો.હિમાની ત્રિવેદી(Head of M.M.Patel Student Research Project Cell,KSV), ડો. રૂપેશ વ્યાસ(Dean, Faculty of Computer Science, KSV) તથા ડો. હિરેન પટેલ(Principal, VSITR, KSV) અને અધ્યાપક ગણ, બિન શૈક્ષણિક ,સહાયક કર્મચારીઓના તથા વિદ્યાર્થીઓ સહયોગથી કરવામાં આવ્યું હતું.

કડી સર્વ વિશ્વવિદ્યાલય અને IEEE-KSV Student Branch દ્વારા " Emerging Research Trends in Engineering (ERTE-2025) કાર્યક્રમનો શુભારંભ

કમલમ્,

કડી સર્વ વિશ્વવિદ્યાલય, IEEE-KSV Student Branch અને IEEE-Gujarat sectionના સંયુક્ત ઉપક્રમે બ્રહ્માણી કૃપા હોલ,સેક્ટર-૨૩, ગાંધીનગર કેમ્પસ ખાતે તા. ૨૬ જુલાઈ ૨૦૨૫ ના રોજERTE-2025 નું ભવ્ય શુભારંભ સવારે ૦૯:૧૫ વાગે સર્વ વિદ્યાલય કેળવણી મંડળ(કડી અને ગાંધીનગર)ના ચેરમેન તેમજ કડી સર્વ વિશ્વવિદ્યાલયના પ્રેસિડંટ માનનીય શ્રી વલ્લભભાઈ એમ. પટેલ સાહેબના શુભેચ્છા સંદેશ અને કડી સર્વ વિશ્વવિદ્યાલયના ઈન્ચાર્જ ડાયરેક્ટર ડો. ગાર્ગી રાજપરાના વરદ હસ્તે કરવામાં આવ્યું. કાર્યક્રમની મંગળ શરૂઆત દીપ પ્રાગટ્ય અને પ્રાર્થનાથી કરવામાં આવી. કાર્યક્રમમાં ડો.ચિરાગ એન. પૌવાલા(chair-IEEE, Gujarat

section),ડૉ.અમિત વેદ(Technical Activity chiar-IEEE,Gujarat Section), ડૉ. દિપક માથુર(Ex.vice President MGA-IEEE) ની ઉપસ્થિતિ પ્રેરક બની રહી. કાર્યક્રમના પ્રથમ દિવસે ગાંધીનગર અને સમગ્ર ગુજરાતની ૧૭ જેટલી કોલેજ ના ૧૮૦ થી વધુ વિદ્યાર્થીઓએ ભાગ લીધો હતો. 'Amalgamation of Blockchain and AI for building Healthcare Applications', 'Engineering Intelligence', 'Smart Traffic solutions', 'Talk and Think Beyond AI' વિષય ઉપર વિષય નિષ્ણાત તરીકે ડો.સુદીપ તંવર, ડો., મહિપાલ જાડેજા, શ્રી. સમીર ભટ્ટ, માર્ગદર્શન આપેલ હતું. આ ઉપરાંત એક પેનલ ડિસ્કશનનો સેશન પણ યોજાયેલ હતો. કોલેજના વિદ્યાર્થીઓમાં સમગ્ર કાર્યક્રમ બાબતે ભારે ઉત્સાહ જોવા મળ્યો હતો. ઉપરોક્ત કાર્યક્રમ નુ આયોજન સર્વ વિદ્યાલય કેળવણી મંડળ(કડી અને ગાંધીનગર)ના ચેરમેન તથા કડી સર્વ વિશ્વવિદ્યાલય ના પ્રેસિડેન્ટ માનનીય શ્રી વલ્લભભાઈ એમ. પટેલ સાહેબના માર્ગદર્શન હેઠળ ડો.હિમાની ત્રિવેદી (Head of M.M.Patel Student Research Project Cell,KSV), ડો. રૂપેશ વ્યાસ(Dean, Faculty of Computer Science, KSV) તથા ડો. હિરેન પટેલ(Principal, VSITR, KSV) અને અધ્યાપકગણ, બિન શૈક્ષણિક ,સહાયક કર્મચારીઓના તથા વિદ્યાર્થીઓ સહયોગથી કરવામાં આવ્યું હતું.

The **IEEE Student Branch at Kadi Sarva Vishvavidyalaya** successfully organized a two-day flagship event "Emerging Research Trends in Engineering (ERTE-2025)" on 26–27 July 2025. The event focused on “AI for Smart Cities and Industry 5.0”, featuring expert sessions on AI in environmental intelligence, industrial automation, and robotics. **160+ participants** joined, fostering insightful discussions and interdisciplinary learning.

કડી સર્વ વિશ્વવિદ્યાલય અને IEEE-KSV Student Branch દ્વારા

“Emerging Research Trends in Engineering (ERTE-2025)” કાર્યક્રમનું આયોજન

ગાંધીનગર સમાચાર

ગાંધીનગર, તા. ૨૮

કડી સર્વ વિશ્વવિદ્યાલય (KSV), IEEE-KSV Student Branch y™u IEEE-Gujarat sectionના સંયુક્ત ઉપક્રમે બ્રહ્માણી કૃપા હોલ, સેક્ટર-૨૩, ગાંધીનગર કેમ્પસ ખાતે તા. ૨૬ જુલાઈ ૨૦૨૫ અને ૨૭ જુલાઈ ૨૦૨૫ ના રોજ ERTE-2025નું ભવ્ય આયોજન સર્વ વિદ્યાલય કેળવણી મંડળ(કડી અને ગાંધીનગર)ના ચેરમેન તેમજ કડી સર્વ વિશ્વવિદ્યાલયના પ્રેસિડંટ વલ્લભભાઈ એમ. પટેલના શુભેચ્છા સંદેશ હેઠળ કરવામાં આવી રહ્યું છે. કડી સર્વ વિશ્વવિદ્યાલયના ઈન્ચાર્જ ડાયરેક્ટર ડો. ગાર્ગી રાજપરાના વરદહસ્તે તા. ૨૬ જુલાઈ ૨૦૨૫એ કાર્યક્રમની ભવ્ય શરૂઆત કરવામાં આવી હતી. AI for Smart Citites and Industry ૫.૦ થીમ ઉપર આખા કાર્યક્રમનું આયોજન કરવામાં આવ્યું હતું.

કાર્યક્રમના બીજા દિવસે ગાંધીનગર અને સમગ્ર ગુજરાતની ૧૭ જેટલી કોલેજના ૧૮૦ થી વધુ વિદ્યાર્થીઓએ ઉત્સાહ ભેર ભાગ લીધો હતો. ‘AI for Air: Real-Time Environmental Intelligence for smarter Cities and Industries’, ‘AI Implementation d³ails for Smart Cities and Industry 5.0’, ‘AI in Industrial Automation and RobOics’ વિષય ઉપર વિષય નિષ્ણાત તરીકે કૃતિ દાવડા, ધ્રુશી પાનસુરીયા, નીલ હારવાની તથા જુગલ ઓઝાએ માર્ગદર્શન આપેલ હતું. કાર્યક્રમનો મુખ્ય ઉદેશ વિદ્યાર્થીઓમાં “ઉભરતી ટેકનોલોજી પ્રત્યે જાગૃતિ”, “સંશોધનમાં વિવેચનાત્મક વિચારસરણી અને નવીનતા” તથા “ઉદ્યોગોમાં AI એપ્લિકેશનનો ઉપયોગ”ની માહિતી આપવાનો હતો. કોલેજના વિદ્યાર્થીઓમાં સમગ્ર કાર્યક્રમ બાબતે ભારે ઉત્સાહ જોવા મળ્યો હતો.

ઉપરોકત કાર્યક્રમનુ આયોજન સર્વ વિદ્યાલય કેળવણી મંડળ(કડી અને ગાંધીનગર)ના ચેરમેન તથા કડી સર્વ વિશ્વવિદ્યાલય ના પ્રેસિડેન્ટ માનનીય શ્રી વલ્લભભાઈ એમ. પટેલ સાહેબના માર્ગદર્શન હેઠળ ડો. હિમાની ત્રિવેદી (Head of M. M. Patel Student Research Project Cell, KSV), ડો. રૂપેશ વ્યાસ (Dean, Faculty of Computer Science, KSV) તથા ડો. હિરેન ...xu÷(Principal, Vidush Somany Institute of Technology & Research, KSV) અને અધ્યાપકગણ, બિન શૈક્ષણિક, સહાયક કર્મચારીઓના તથા વિદ્યાર્થીઓ સહયોગથી કરવામાં આવ્યું હતું. કાર્યક્રમ અંતે આભારવિધી ૨૭મી જુલાઈ, ૨૦૨૫ના રોજ ડો. રૂપેશ વ્યાસ (Dean, Faculty of Computer Science, KSV) ના વરદહસ્તે કરવામાં આવી હતી. જેમાં તેમણે તમામ મહેમાનો, આયોજકો અને ઉપસ્થિતોનો હાર્દિક આભાર વ્યક્ત કર્યો હતો.

FEEDBACKS FROM PARTICIPANTS

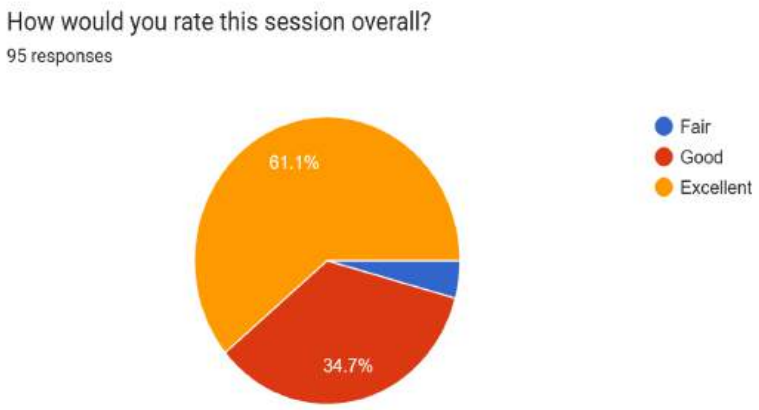
Day 1 - 26/07/2025

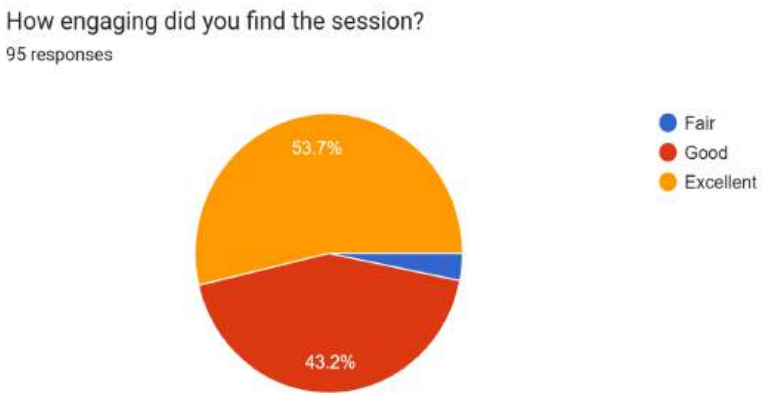
Session 1

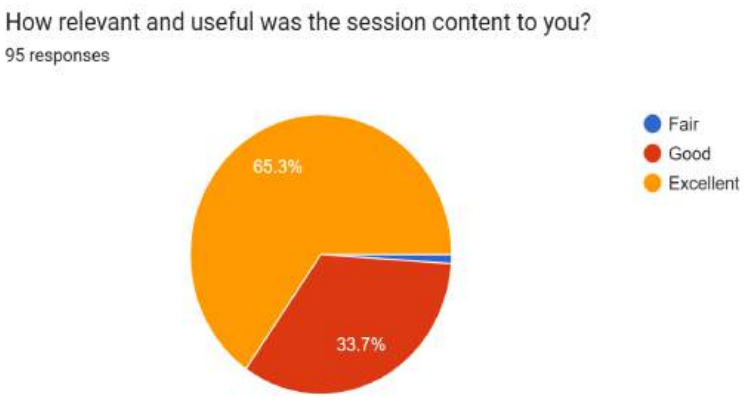
Date: 26/07/2025

Time: 10:00 AM - 11:15 PM

Speaker: Dr. Sudeep Tanwar





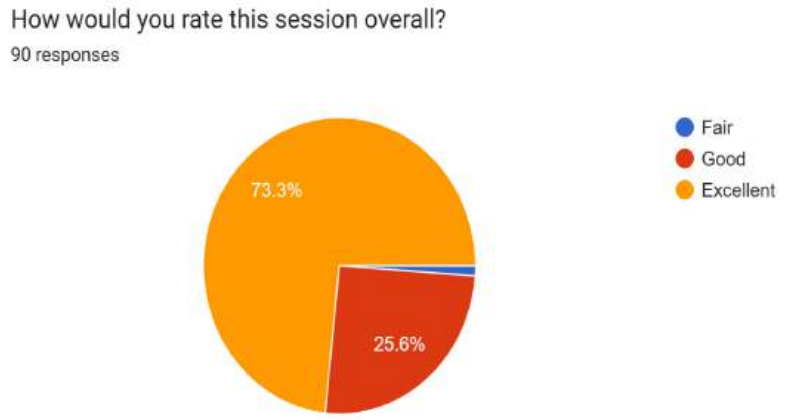


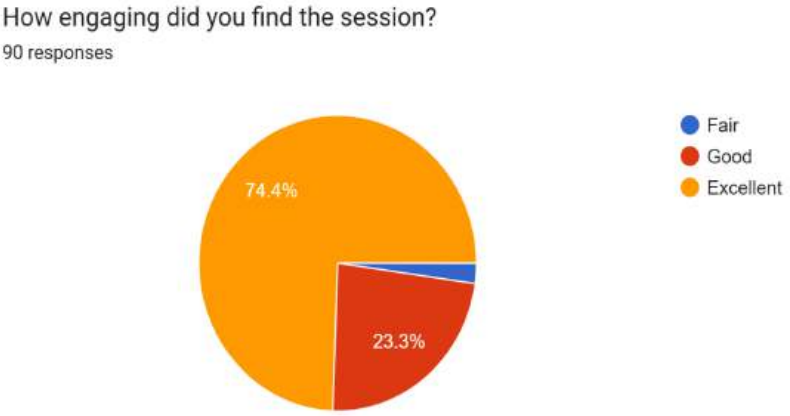
Session 2

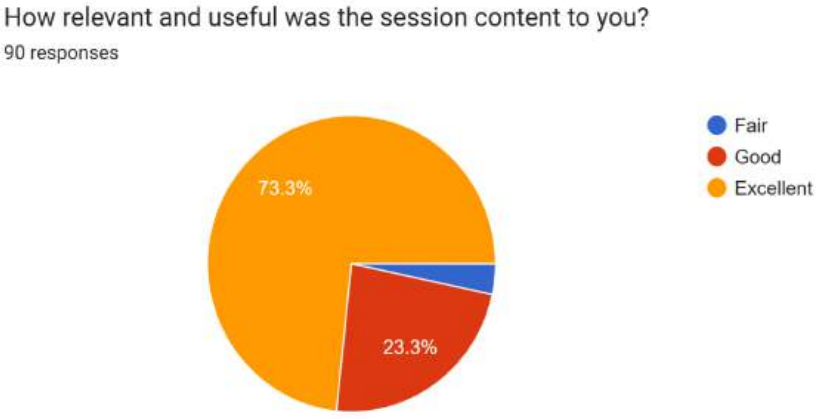
Date: 26/07/2025

Time:11:30 AM - 12:45 PM

Speaker : Dr. Mahipal Jadeja







Session 3

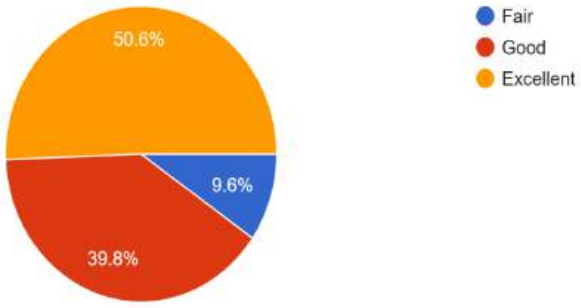
Date: 26/07/2025

Time :2:00 PM - 3:15 PM

Speaker : Mr. Samir Bhatt

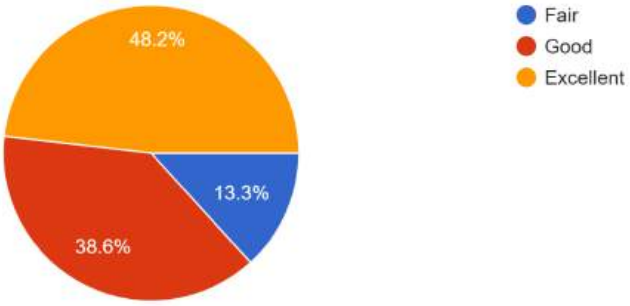
How would you rate this session overall?

83 responses



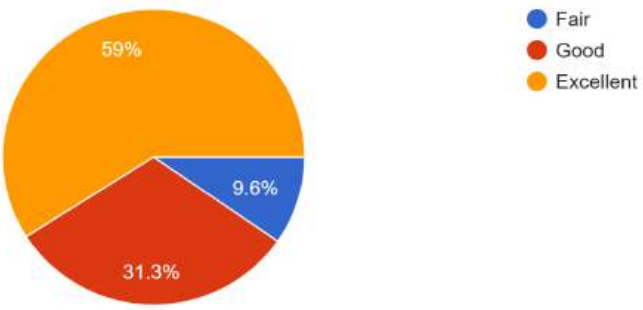
How engaging did you find the session?

83 responses



How relevant and useful was the session content to you?

83 responses



Panel Discussion

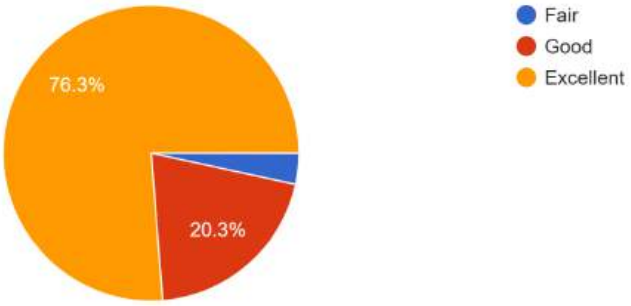
Date: 26/07/2025

Time :2:00 PM - 3:15 PM

Panel Members: Mr. Sameer Kulkarni, Dr. Mahipal Jadeja, Dr. Hiren Patel, Mr. Vicrumnaug Vuppalapaty

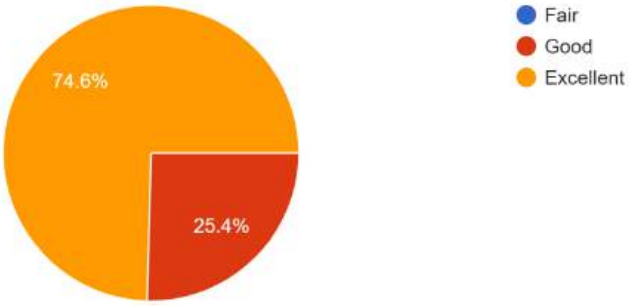
How would you rate the overall quality of the panel discussion?

59 responses



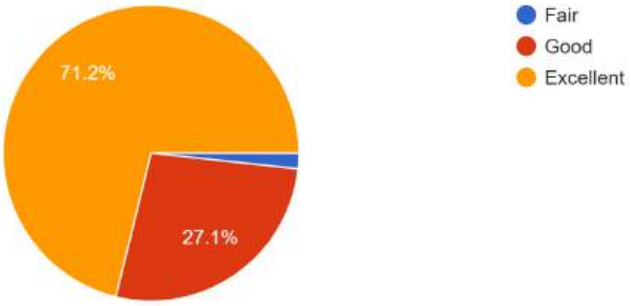
How engaging was the interaction among the panelists?

59 responses



How useful were the insights shared during the Q&A segment?

59 responses



Day 2 - 26/07/2025

Session 1

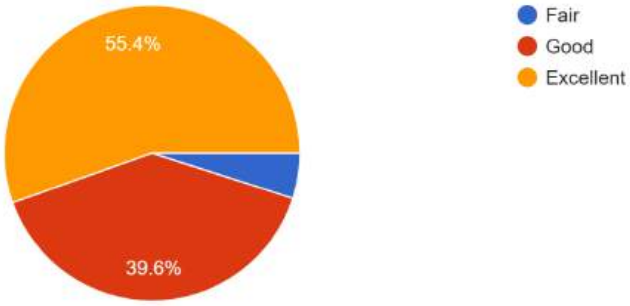
Date: 27/07/2025

Time: 10:00 AM - 11:15 AM

Speakers : Ms. Kruti Davda, Mrs. Dhrushi Pansuriya

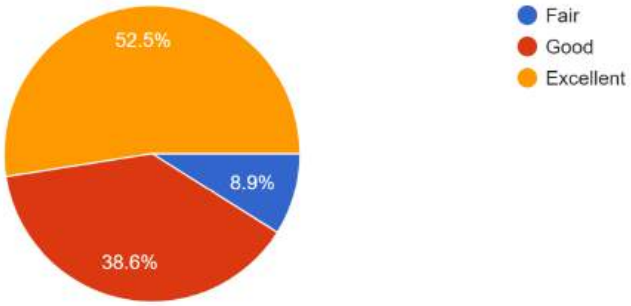
How would you rate this session overall?

101 responses



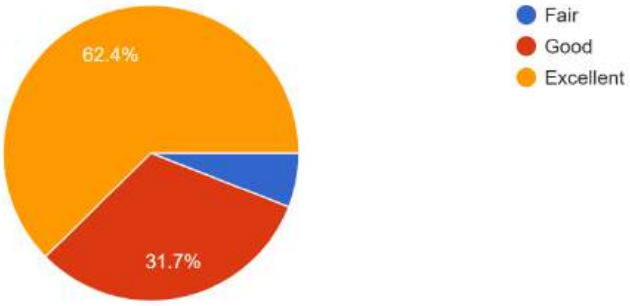
How engaging did you find the session?

101 responses



How relevant and useful was the session content to you?

101 responses



Session 2

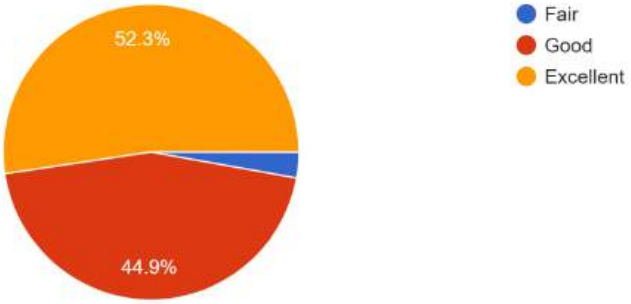
Date: 27/07/2025

Time: 11:30 AM - 12:45 PM

Speakers : Mr. Nail Harwani

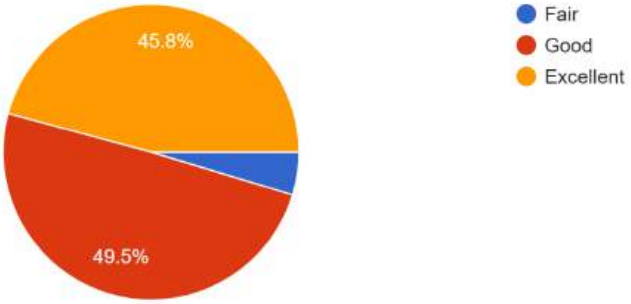
How would you rate this session overall?

107 responses



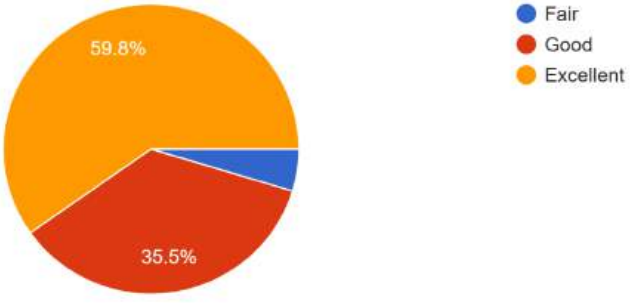
How engaging did you find the session?

107 responses



How relevant and useful was the session content to you?

107 responses



Session 3

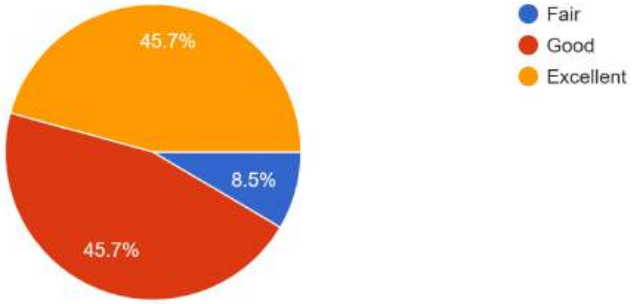
Date: 27/07/2025

Time: 2:15 PM - 3:30 PM

Speakers : Mr. Jugal Oza

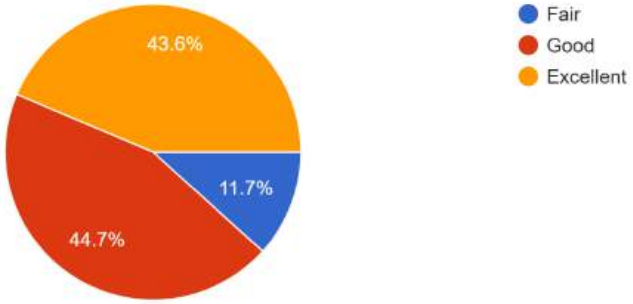
How would you rate this session overall?

94 responses



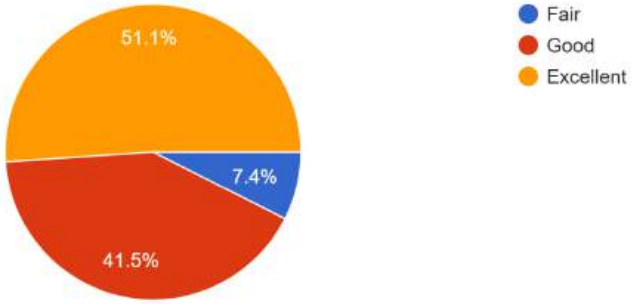
How engaging did you find the session?

94 responses

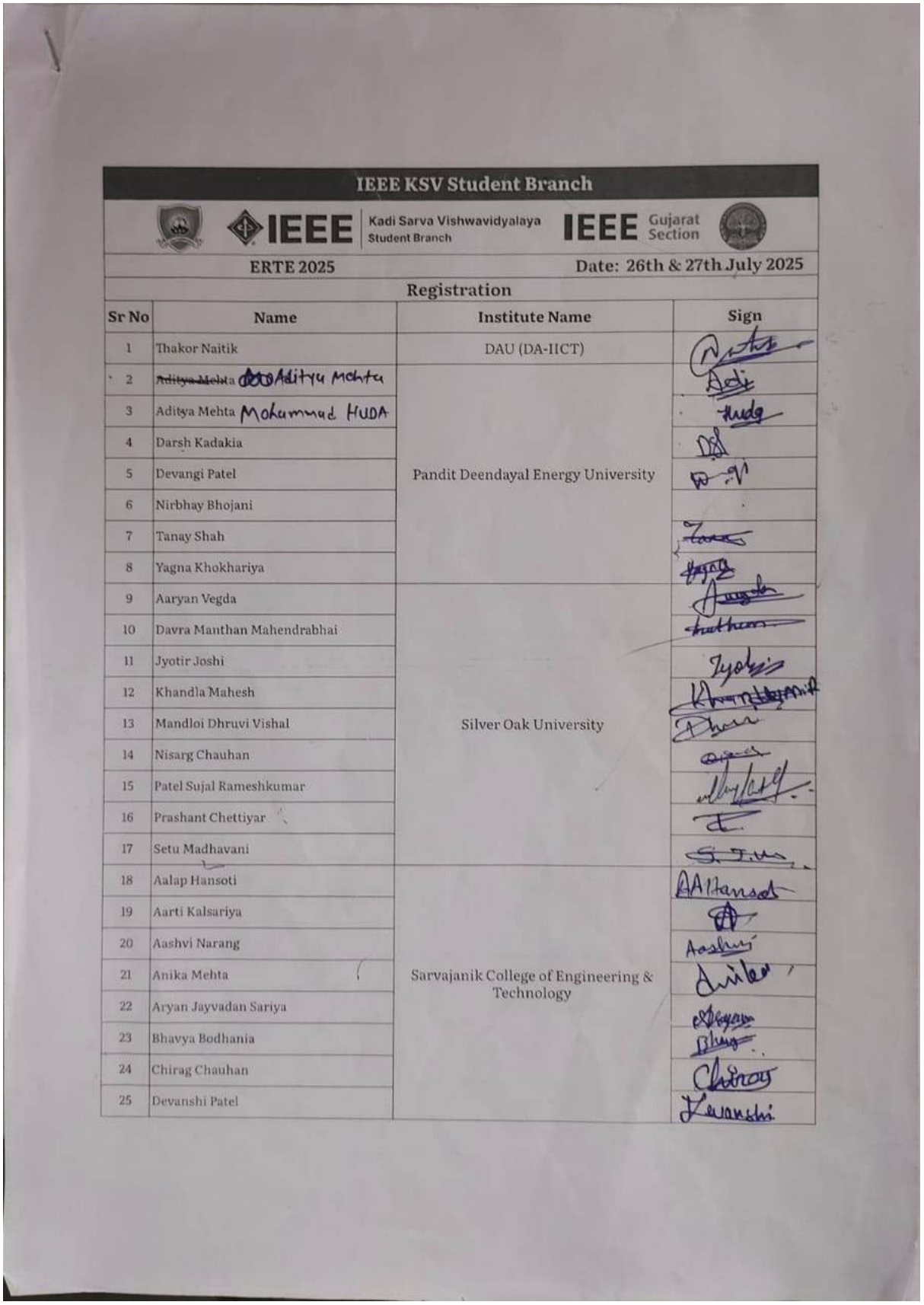


How relevant and useful was the session content to you?

94 responses



Registration-Sheet ERTE-2025



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ERTE 2025 — **Date: 26th & 27th July 2025**

Registration

Sr No	Name	Institute Name	Sign
1	Thakor Naitik	DAU (DA-IICT)	
2	~~Aditya Mehta~~ Aditya Mehta	Pandit Deendayal Energy University	
3	Aditya Mehta Mohammad HUDA		
4	Darsh Kadakia		
5	Devangi Patel		
6	Nirbhay Bhojani		
7	Tanay Shah		
8	Yagna Khokhariya		
9	Aaryan Vegda	Silver Oak University	
10	Davra Manthan Mahendrabhai		
11	Jyotir Joshi		
12	Khandla Mahesh		
13	Mandloi Dhruvi Vishal		
14	Nisarg Chauhan		
15	Patel Sujal Rameshkumar		
16	Prashant Chettiyar		
17	Setu Madhavani		
18	Aalap Hansoti	Sarvajanik College of Engineering & Technology	
19	Aarti Kalsariya		
20	Aashvi Narang		
21	Anika Mehta		
22	Aryan Jayvadan Sariya		
23	Bhavya Bodhania		
24	Chirag Chauhan		
25	Devanshi Patel		

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Registration

Sr No	Name	Institute Name	Sign
26	Dhayeya Gandhi	Sarvajanik College of Engineering & Technology	
27	Dhruvil Fulwala		
28	Hardik Suthar		
29	Hitanshu Desai		
30	Jainim Jariwala		
31	Jiya Shah		
32	Kuldeep Kevat		
33	Manan Tarsariya		
34	Patel Dev Vinodkumar		
35	Patel Vatsal Shaileshkumar		
36	Rishi Savani		
37	Ronit Tarunbhai Rathod		
38	Sahil Ariwala		
39	Shruti Desai		
40	Tanisha Agarwal		
41	Vansh Patel		
42	Ved Kapadia		
43	Vir Kumar Gupta		
44	Vishvam Joshi		
45	Yash Dilkhush		
46	Hill Soni	Ganpat University	
47	Tirth Patel		
48	Vatsal Shaileshkumar Patel		
49	Harshal Jayesh Bhanushali	Madhuben & Bhanubhai Patel Institute of Technology (MBIT)	
50	Rudra Trivedi		

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Sr No	Name	Institute Name	Sign
51	Anany Kelotra	Nirma University	
52	Dharm Mankad		
53	Harmit Prajapati		
54	Himay Shah		
55	Trupesh Surendrakumar Patel		
56	Akshat Mistry	G H Patel College of Engineering & Technology Student Branch	
57	Daksh Chandnani		
58	Dev Manojkumar Ray		
59	Dhyana Joshi		
60	Parshva Shah		
61	Riju Patel		
62	Pankaj Khandelwal	CEPT University	
63	Patel Hitee Jitendrakumar	Birla Vishvakarma Mahavidyalaya	
64	Dharmin Lad	AURO University	
65	Dhruv Vasava		
66	Harshsingh Rajput		
67	Het Desai		
68	Tranag Gotawala		
69	Abhijeet Kumar Bhagat	Marwadi University	
70	Aditya Raj		
71	Bairy lehyasri		
72	Gowda Anushka		
73	Jahnvi Hiteshbhai Aghera		
74	Janvi Viradiya		

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ERTE 2025 — **Date: 26th & 27th July 2025**

Registration

Sr No	Name	Institute Name	Sign
75	Kishan Chauhan	Marwadi University	
76	Moraseekam Karthik		
77	Nandini Lashkari		
78	Rudransh Bhatt		
79	Soumar Sikhar Talukdar		
80	Tapaswani Biswal		
81	Aakash Jaiswal	SCET	

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ERTE 2025 — **Date: 26th & 27th July 2025**

Registration

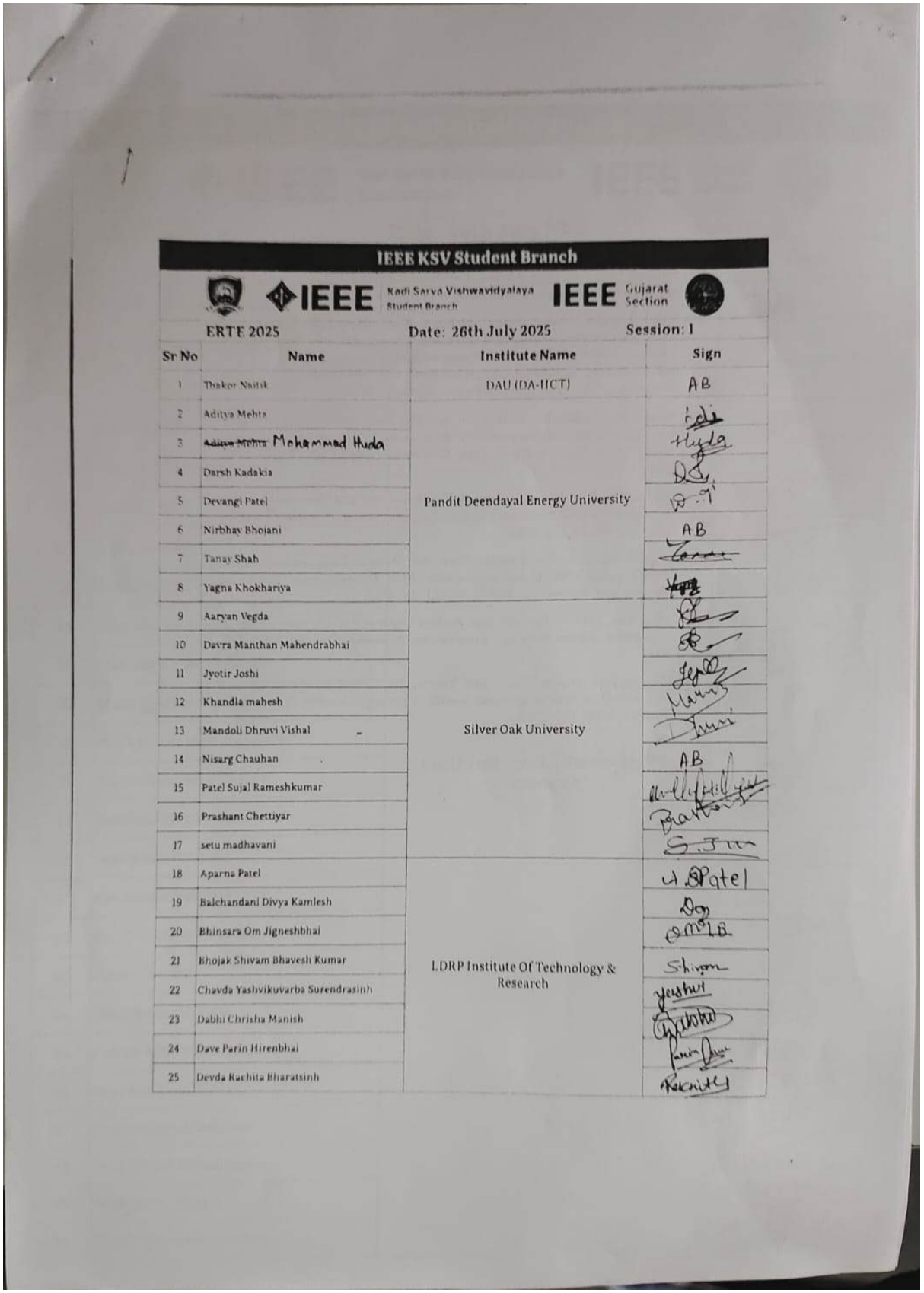
Sr No	Name	Institute Name	Sign
1	Aparna Patel	LDRP Institute Of Technology & Research	
2	Balchandani Divya Kamlesh		
3	Bhinsara Om Jigneshbhai		
4	Bhojak Shivam Bhavesh Kumar		
5	Chavda Yashvikuvarba Surendrasinh		
6	Dabhi Chrisha Manish		
7	Devda Rachita Bharatsinh		
8	Dhandhukiya Tushar Dinesh		
9	Dhwani Niteshbhai Thakkar		
10	Dave Parin Hirenbhai		
11	Godhaniya Devika Nileshbhai		
12	Honey Modha		
13	Janki S. Chitroda		
14	Kanksha Buch		
15	Kisha Panchal		
16	Krisha Mistry		
17	Kunj Shaileshbhai Darji		
18	Mahendra B. Khambhalia		
19	Mann Vinaykumar Patel		
20	Mitra Monik Mukeshchandra		
21	Naitik Kishorbhai Bhalodi		
22	Nakhuda Mohd Anas		
23	Nancy Rajesh Patel		

24	Oza Manav Maheshkumar	LDRP Institute Of Technology & Research	
25	Panchal Aditya Niteshkumar		
26	Pande Hemant		
27	Pandya Aayush Viral		
28	Parmar Mahi Nitinchandra		
29	Patel Amee Anilkumar		
30	Patel Banshari Rahulkumar		
31	Patel Dhruvi Rakeshkumar		
32	Patel Hency Mukesh		
33	Patel Jainee Hasmukhbhai		
34	Patel Krish Himanshu		
35	Patel Krutikaben Vijaybhai		
36	Patel Lawrence R		
37	Patel Ridham Vijaybhai		
38	Patel Vraj Bipinbhai		
39	Prajapati Riya		
40	Prazal Kaushikbhai Vachhani		
41	Priyank Navin Hadiya		
42	Rudrax Alpeshkumar Patel		
43	Shreyansh Sanjaybhai Variya		
44	Siddharth D. Trivedi		
45	Sirodariya Ronit Jayesh		
46	Solanki Riyaben Sureshkumar		
47	Tanisha Lalitkishore Sharma		
48	Utkarsh Padhya		
49	Varu Pragati Jayeshbhai		
50	Vekariya Srushti		
51	Vyas Taniya Nildeep		

52	Yajurshi Velani	LDRP Institute Of Technology & Research	
53	Chaudhary Anshu Ashokkumar	SHRI M.M. PATEL INSTITUTE OF SCIENCE AND RESEARCH TECHNOLOGY	
54	Parmar Aditya Kalabhai		
55	Shah Meshwa Jitendrakumar		
56	Chaudhary Parth Bikhaji	B.P College of Computer Studies	
57	Hridya Trivedi		
58	Jadeja Devakshiba Rajendrasinh		
59	Kantesariya Eva Divyeshbhai		
60	Kavya Patel		
61	Kuvadiya Apurva Kiritbhai		
62	Parekh Aryan Naileshbhai		
63	Patel Heli Harinbhai		
64	Patel Riya Amitbhai		
65	Rangani Sneh Sanjay		
66	Valvi Dhruvkumar .M		
67	Jadav Swatiben Arasibhai	SVKM Institute of Computer Studies	
68	Panchal Niya Bharatbhai		
69	Patel Vaidehi Jayeshkumar		
70	Ahir Anjali Champaklal	Vidush Somany Institute of Technology & Research	
71	Anas Sabbirbhai Mansuri		
72	Arhan Mubinahemad Mansuri		
73	Ark Gyankamal Chaudhary		
74	Dev R. Patel		
75	Godhani Pavan		
76	Goswami Jaimin Alpeshgiri		
77	Jay Harshadbhai Darji		
78	Kabira Krrish K.		
79	Kher Bhavyarajsinh Rajendrasinh		

80	Manhar Vishnubhai Raval	Vidush Somany Institute of Technology & Research	M. V. Raval
81	Patel Devkumar Kanubhai		Patel Dev. K.
82	Patel Jiyaben Rohitbhai		J. R. Patel
83	Patel Ved Alpeshkumar		Patelved
84	Prajapati Asmita Kapilaben		Asmita
85	Sanyam Maheshkumar Christian		sym
86	Tanisha Pramodkumar Pandya		Tanisha Patel
87	Vansh Chandrakant Patel		Patel
88	Vekariya Jeel Nileshbhai		Jeel N. Patel
89	Vyas Jenil Nileshkumar		Jenil
90	Thakor Aushik Lalaji	BPCCS	

Attendance-Sheet ERTE - 2025



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IEEE Kadi Sarva Vishwavidyalaya Student Branch — IEEE Gujarat Section

ERTE 2025 | Date: 26th July 2025 | Session: 1

Sr No	Name	Institute Name	Sign
1	Thaker Naitik	DAU (DA-IICT)	AB
2	Aditya Mehta	Pandit Deendayal Energy University	
3	~~Aditya Mehta~~ Mohammad Huda		
4	Darsh Kadakia		
5	Devangi Patel		
6	Nirbhay Bhojani		AB
7	Tanay Shah		
8	Yagna Khokhariya		
9	Aaryan Vegda	Silver Oak University	
10	Davra Manthan Mahendrabhai		
11	Jyotir Joshi		
12	Khandla mahesh		
13	Mandoli Dhruvi Vishal		
14	Nisarg Chauhan		AB
15	Patel Sujal Rameshkumar		
16	Prashant Chettiyar		
17	setu madhavani		
18	Aparna Patel	LDRP Institute Of Technology & Research	A Patel
19	Balchandani Divya Kamlesh		
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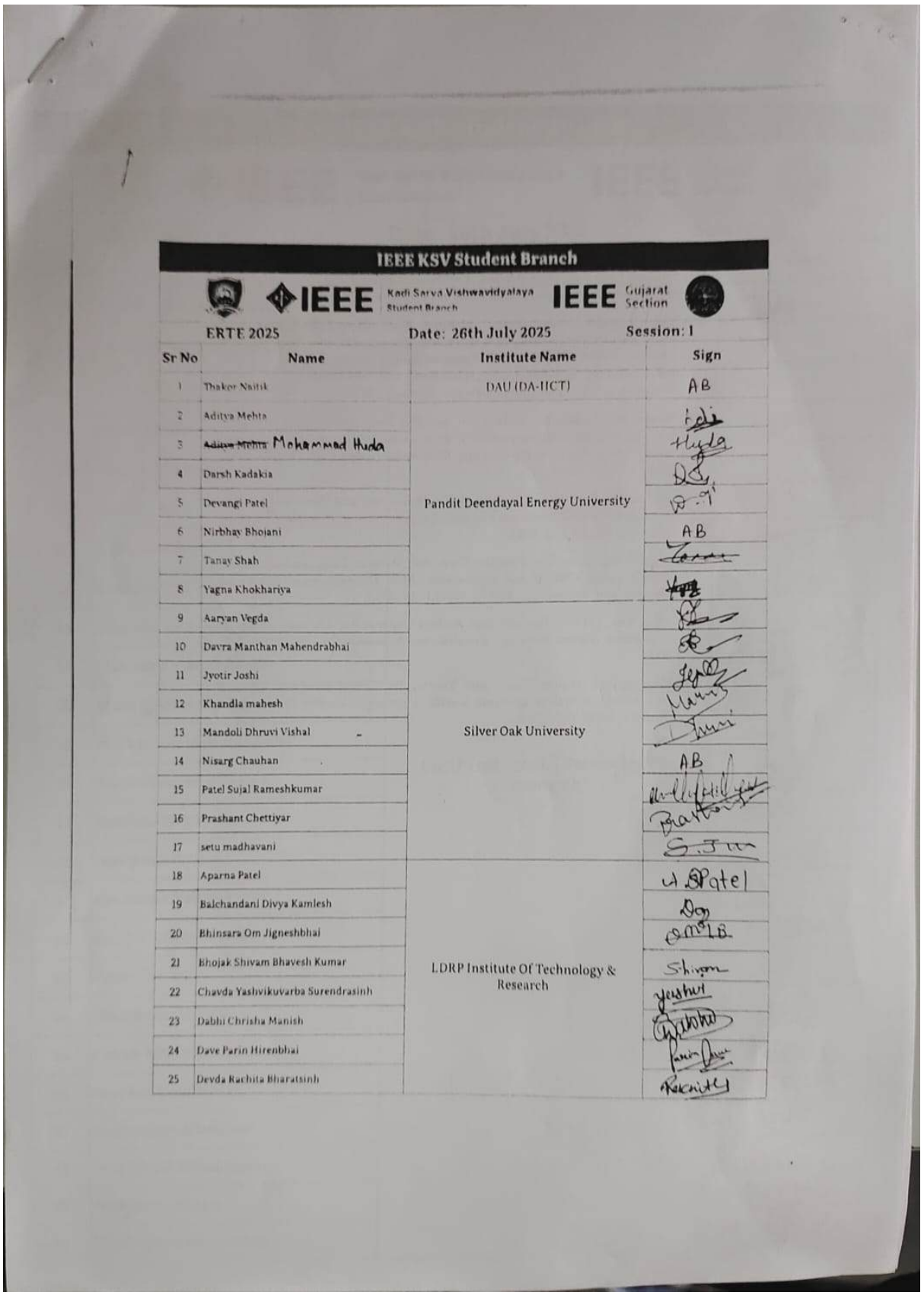

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31	Kanksha Buch		
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33	Krisha mistry		
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35	Mahendra B. Khambhalia		
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39	Nakhuda Mohd Anas		
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41	Oza Manav Maheshkumar		
42	Panchal Aditya Niteshkumar		
43	Pande Hemant		
44	Pandya Aayush Viral		
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46	Patel Amee Anilkumar		
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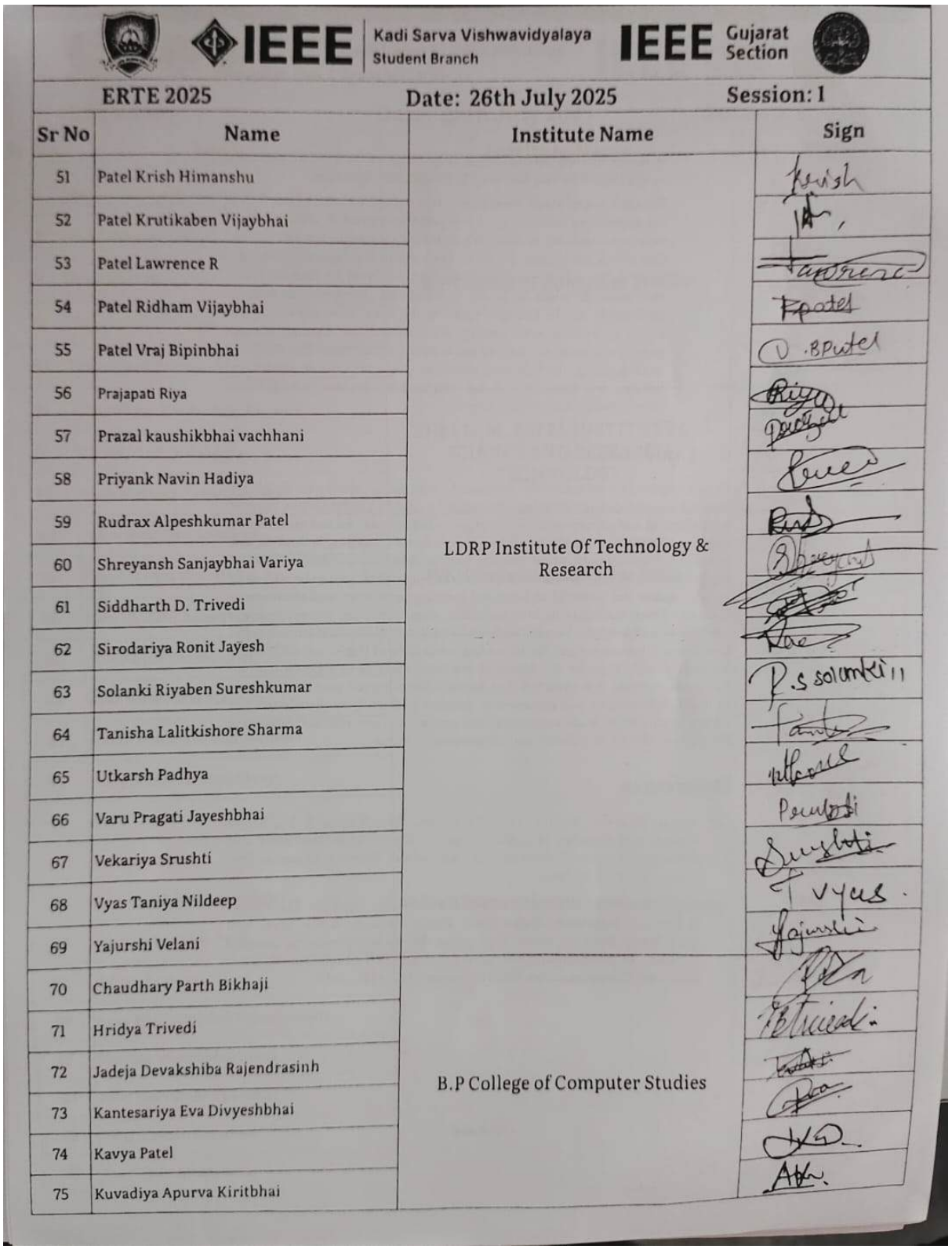

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55	Patel Vraj Bipinbhai		
56	Prajapati Riya		
57	Prazal kaushikbhai vachhani		
58	Priyank Navin Hadiya		
59	Rudrax Alpeshkumar Patel		
60	Shreyansh Sanjaybhai Variya		
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62	Sirodariya Ronit Jayesh		
63	Solanki Riyaben Sureshkumar		
64	Tanisha Lalitkishore Sharma		
65	Utkarsh Padhya		
66	Varu Pragati Jayeshbhai		
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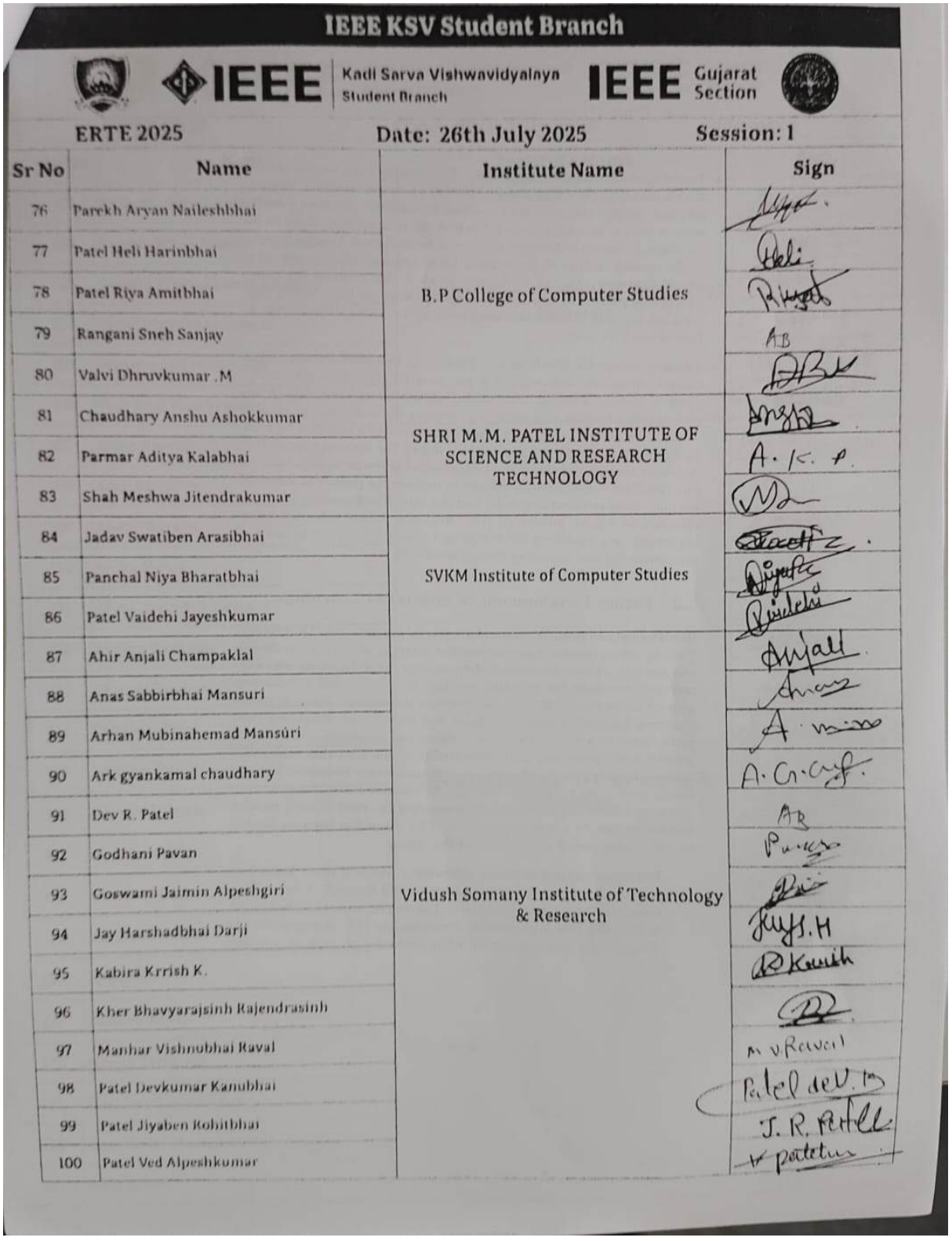

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103	Tanisha Pramodkumar Pandya		
104	Vansh Chandrakant Patel		
105	Vekariya Jeel Nileshbhai		
106	Vyas Jenil Nileshkumar		
107	Aalap Hansoti	Sarvajanik College of Engineering & Technology	
108	Aarti Kalsariya		
109	Aashvi Narang		
110	Anika Mehta		
111	Aryan Jayvadan Sariya		
112	Bhavya Bodhania		
113	Chirag Chauhan		
114	Devanshi Patel		
115	Dhayeya Gandhi		
116	Dhruvil Fulwala		
117	Hardik Suthar		
118	Hitanshu Desai		
119	Jainim Jariwala		
120	Jiya Shah		
121	Kuldeep Kevat		AB
122	Manan Tarsariya		AB
123	Patel Dev Vinodkumar		
124	Patel Vatsal Shaileshkumar		AB
125	Rishi Savani		

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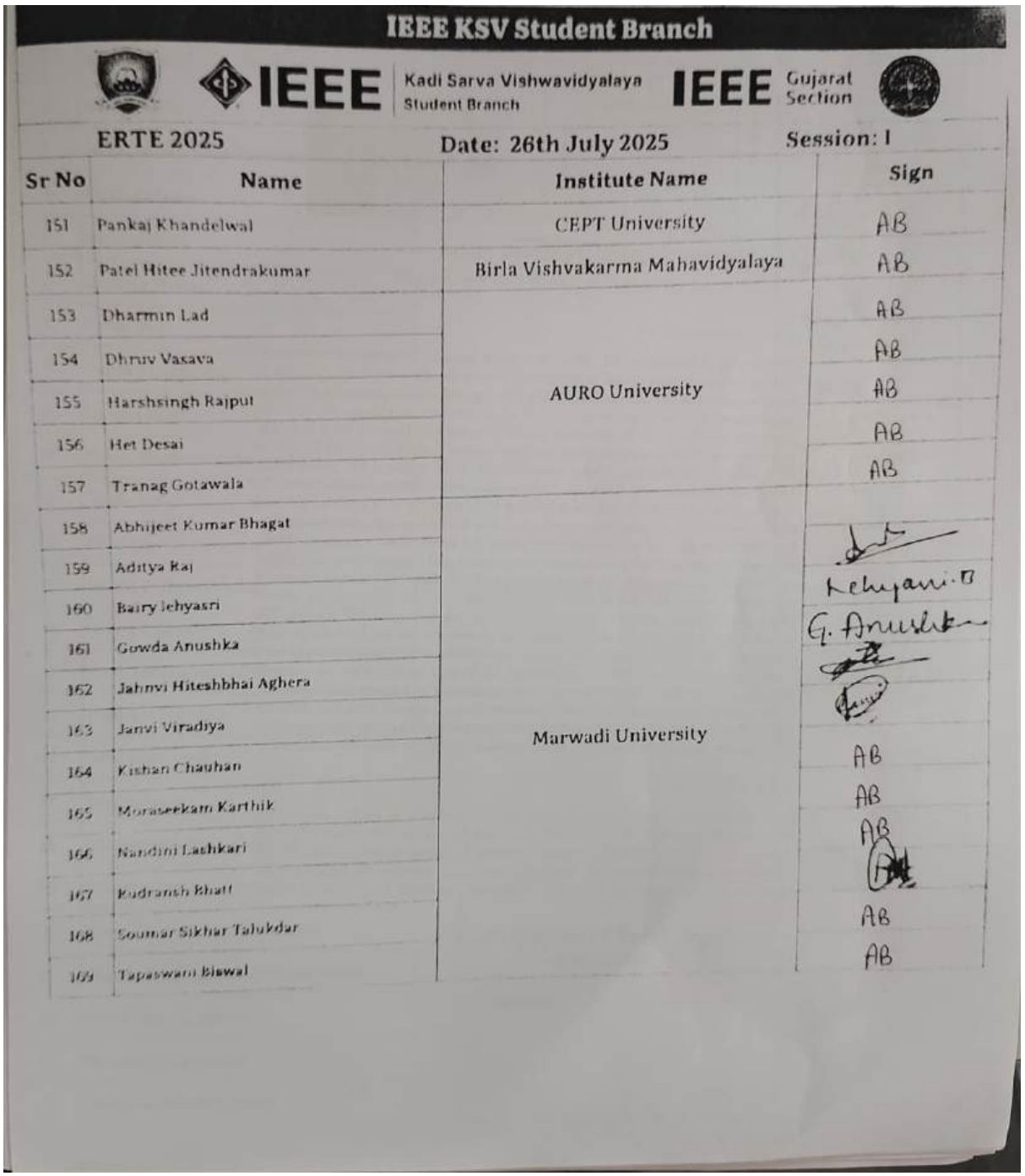
127	Sahil Ariwala		
128	Shruti Desai		
129	Tanisha Agarwal		
130	Vansh Patel		
131	Ved Kapadia		
132	Vir Kumar Gupta		
133	Vishvam Joshi		
134	Yash Dilkhush		AB
135	Hill Soni	Ganpat University	AB
136	Tirth Patel		AB
137	Vatsal Shaileshkumar Patel	SCET	
138	Harshal Jayesh Bhanushali	Madhuben & Bhanubhai Patel Institute of Technology (MBIT)	AB
139	Rudra Trivedi		AB
140	Anany Kelotra	Nirma University	
141	Dharm Mankad		
142	Harmit Prajapati		
143	Himay Shah		
144	Trupesh Surendrakumar Patel		AB
145	Akshat Mistry	G H Patel College of Engineering & Technology	AB
146	Daksh Chandnani		AB
147	Dev Manojkumar Ray		AB
148	Dhyana Joshi		AB
149	Parshva Shah		AB
150	Riju Patel		AB



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ERTE 2025 | **Date: 26th July 2025** | **Session: I**

Sr No	Name	Institute Name	Sign
151	Pankaj Khandelwal	CEPT University	AB
152	Patel Hitee Jitendrakumar	Birla Vishvakarma Mahavidyalaya	AB
153	Dharmin Lad	AURO University	AB
154	Dhruv Vasava		AB
155	Harshsingh Rajput		AB
156	Het Desai		AB
157	Tranag Gotawala		AB
158	Abhijeet Kumar Bhagat	Marwadi University	
159	Aditya Raj		
160	Bairy Jehyasri		Jehyasri.B
161	Gowda Anushka		G. Anushka
162	Jahnvi Hiteshbhai Aghera		
163	Janvi Viradiya		
164	Kishan Chauhan		AB
165	Morasekam Karthik		AB
166	Nandini Lashkari		AB
167	Rudransh Bhatt		
168	Soumar Sikhar Talukdar		AB
169	Tapaswani Biswal		AB

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ERTE 2025 **Date: 26th July 2025** **Session: 2**

Sr No	Name	Institute Name	Sign
1	Thakor Naitik	DAU (DA-IICT)	
2	Aditya Mehta	Pandit Deendayal Energy University	
3	~~Aditya Mehta~~ Mohamad Huda		
4	Darsh Kadakia		
5	Devangi Patel		
6	Nirbhay Bhojani		
7	Tanay Shah		
8	Yagna Khokhariya		
9	Aaryan Vegda	Silver Oak University	
10	Davra Manthan Mahendrabhai		
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15	Patel Sujal Rameshkumar		
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18	Aparna Patel	LDRP Institute Of Technology & Research	
19	Balchandani Divya Kamlesh		
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26	Dhandhukiya Tushar Dinesh	LDRP Institute Of Technology & Research	
27	Dhwani Niteshbhai Thakkar		
28	Godhaniya Devika Nileshbhai		
29	Honey Modha		
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34	Kunj Shaileshbhai Darji		
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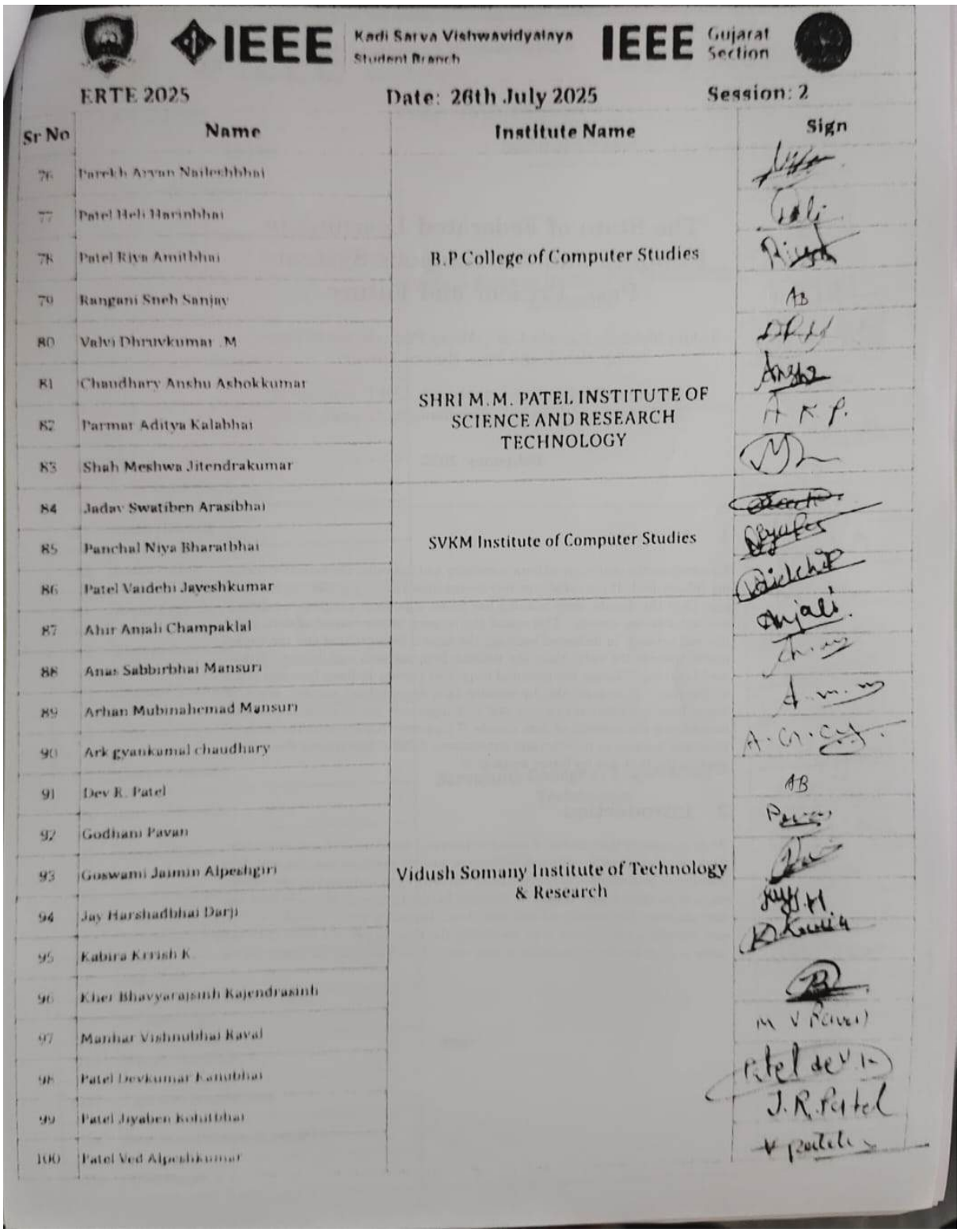

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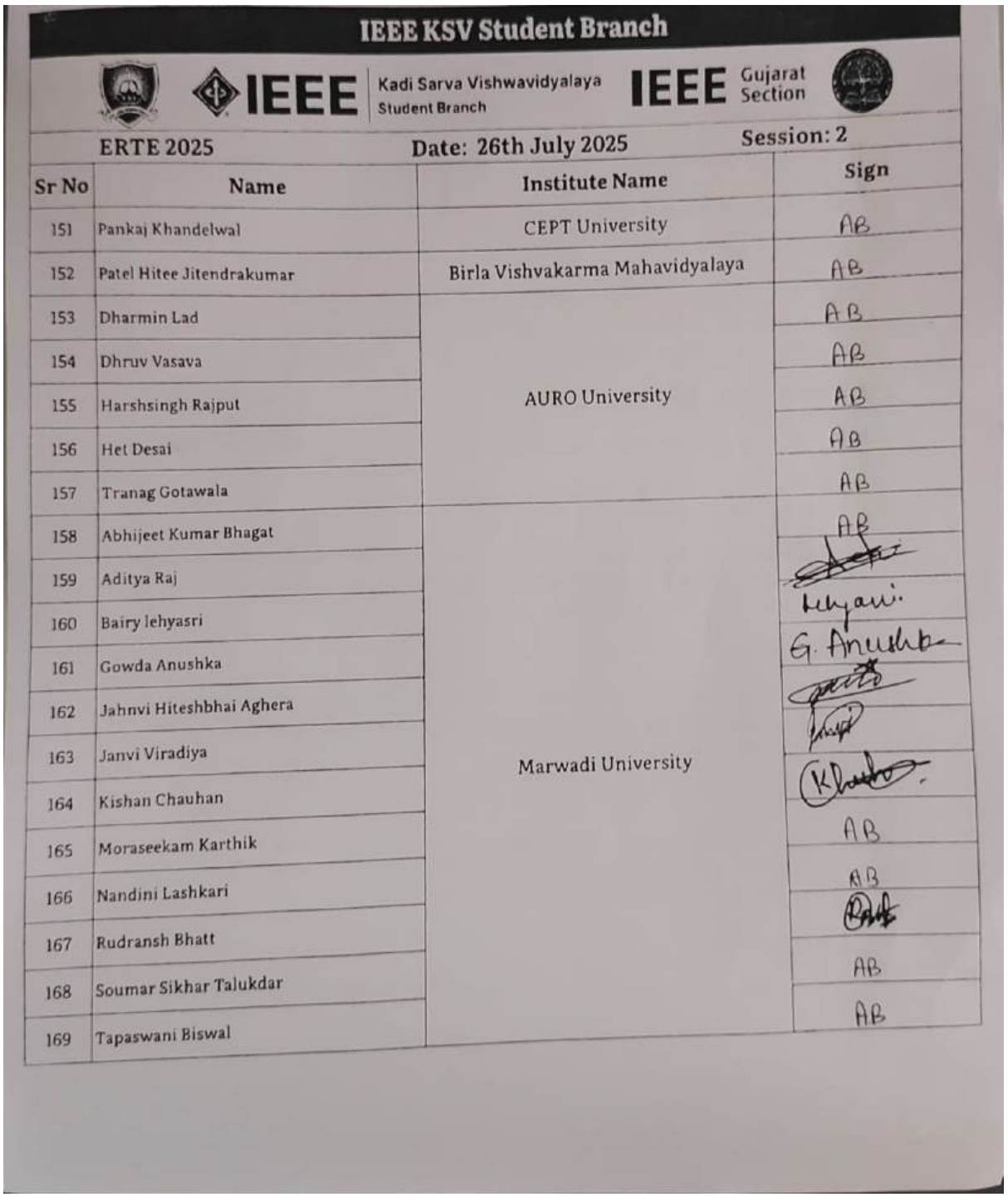

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159	Aditya Raj		
160	Bairy lehyasri		lehyasri.
161	Gowda Anushka		G. Anushka
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163	Janvi Viradiya		
164	Kishan Chauhan		
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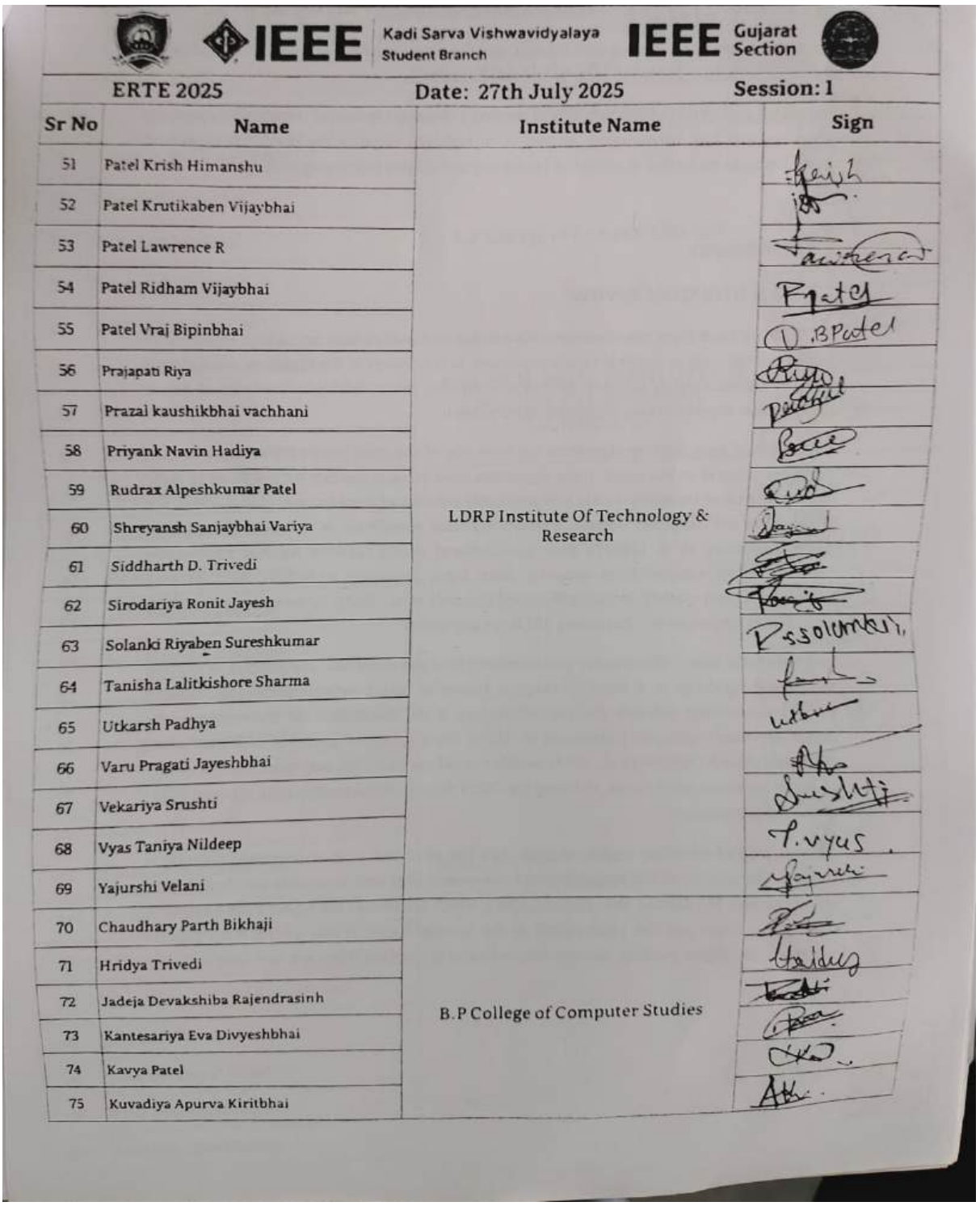

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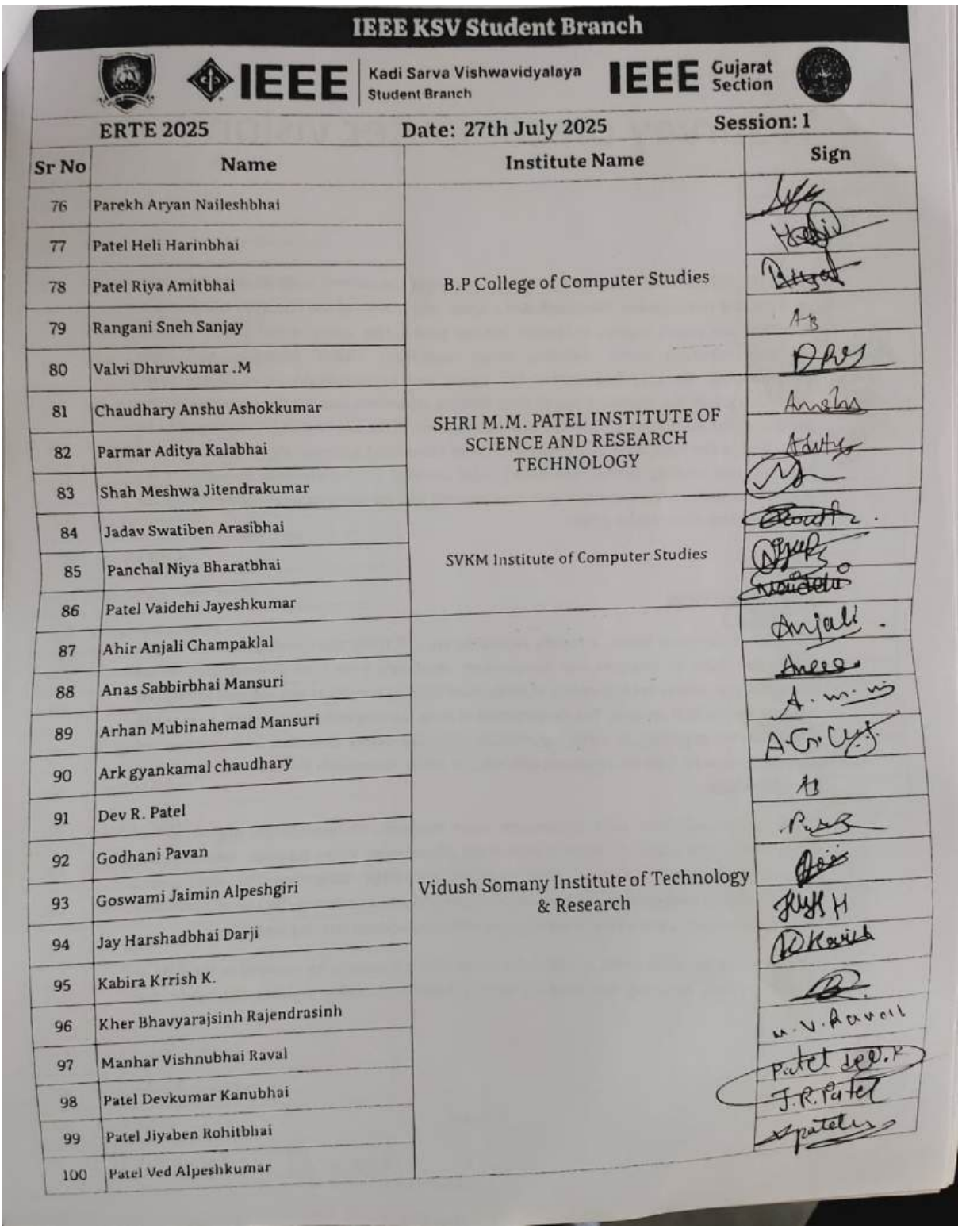
74	Kavya Patel		
75	Kuvadiya Apurva Kiritbhai		



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93	Goswami Jaimin Alpeshgiri		
94	Jay Harshadbhai Darji		
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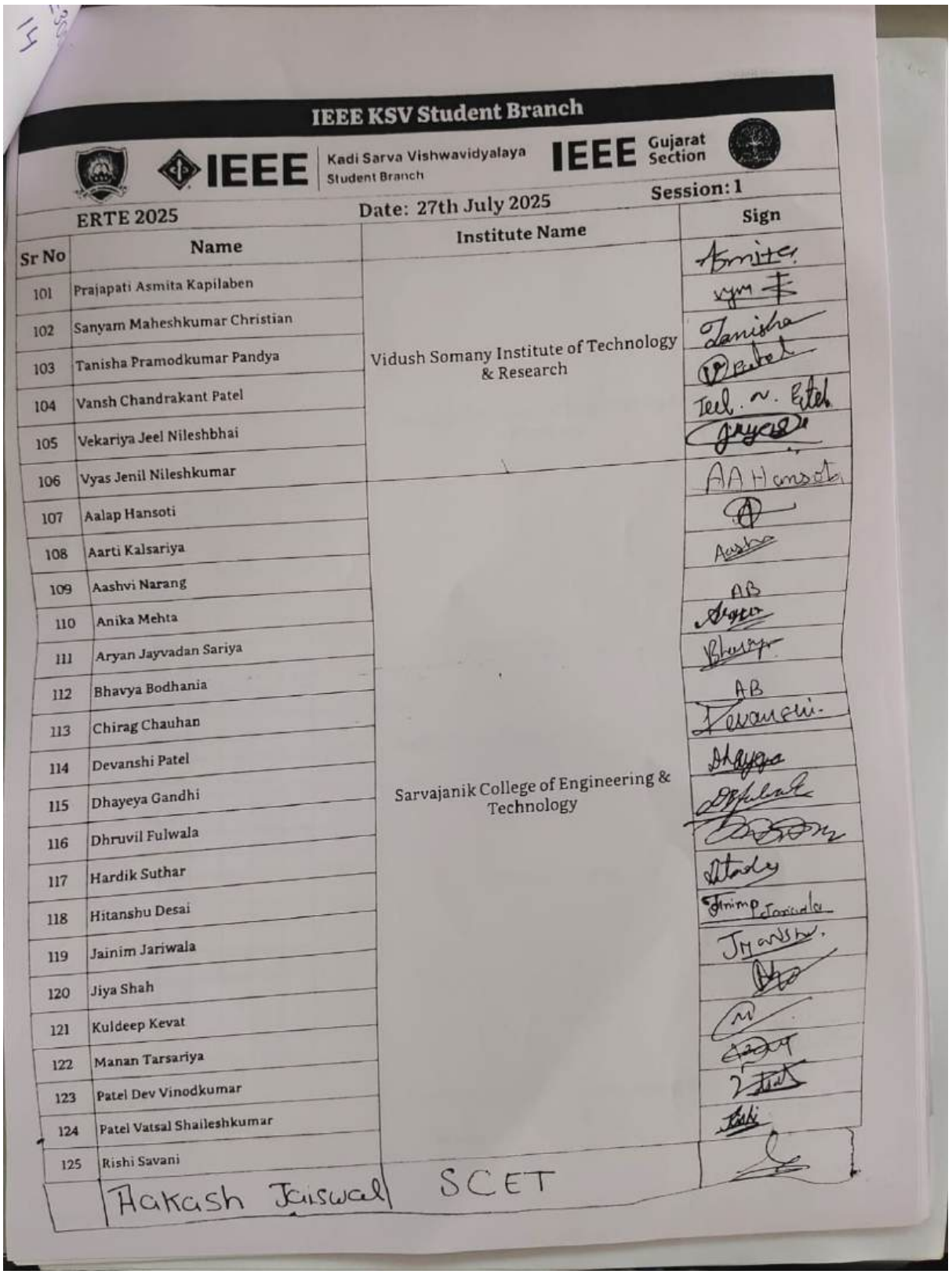

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109	Aashvi Narang		
110	Anika Mehta		
111	Aryan Jayvadan Sariya		
112	Bhavya Bodhania		
113	Chirag Chauhan		
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116	Dhruvil Fulwala		
117	Hardik Suthar		
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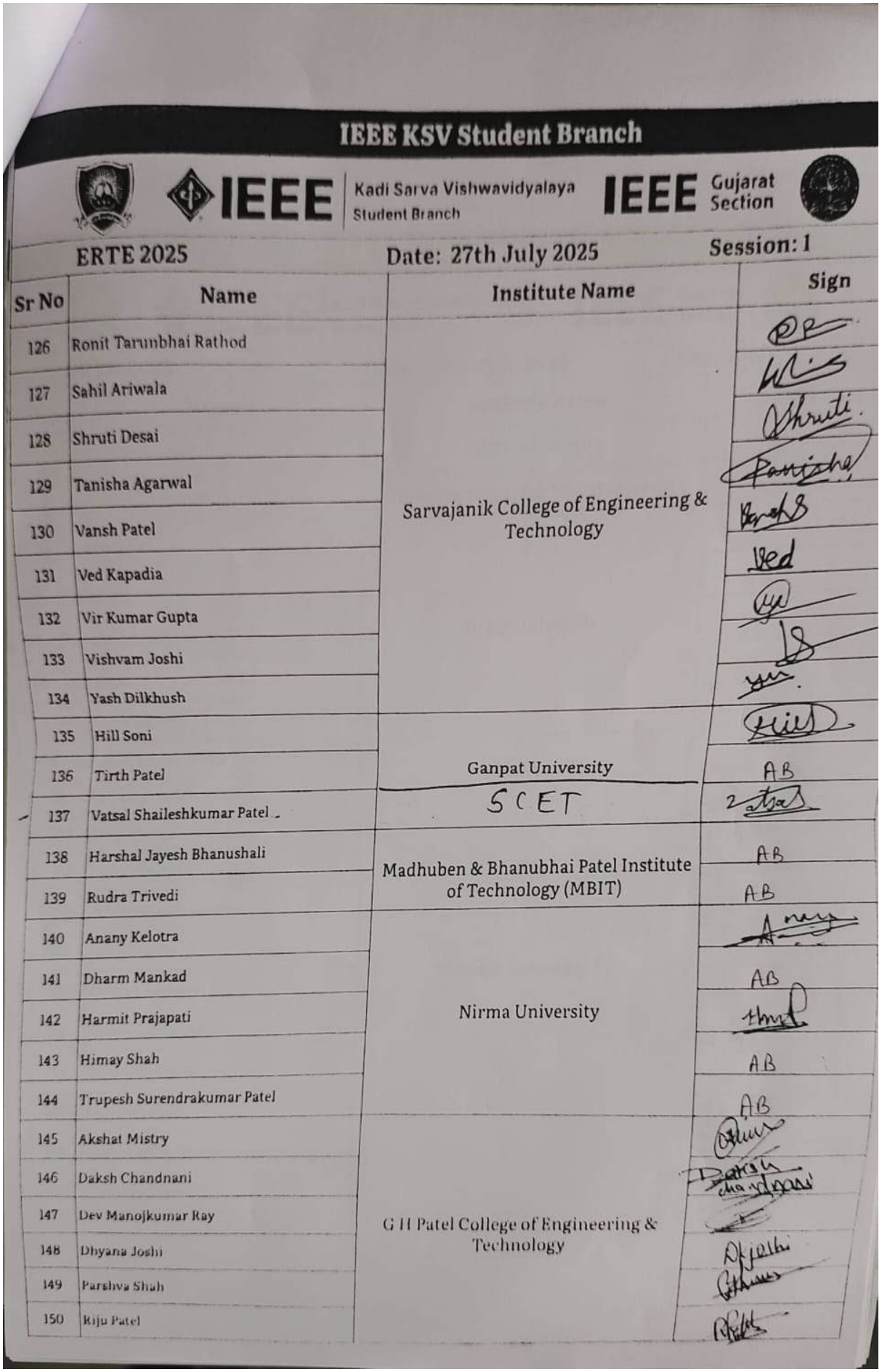
125	Rishi Savani		
	Akash Jaiswal	SCET	



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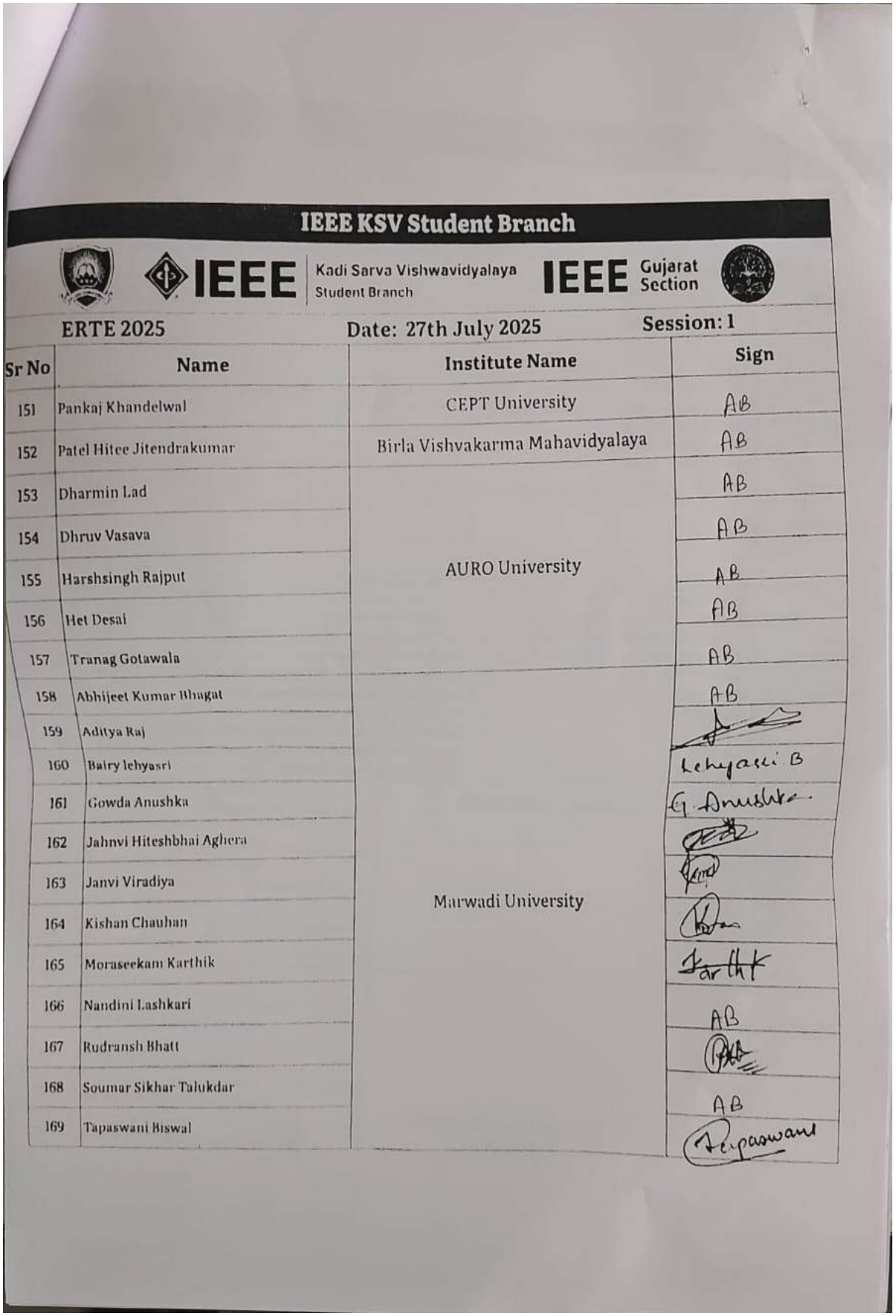
130	Vansh Patel		
131	Ved Kapadia		
132	Vir Kumar Gupta		
133	Vishvam Joshi		
134	Yash Dilkhush		
135	Hill Soni	Ganpat University SCET	
136	Tirth Patel		AB
137	Vatsal Shaileshkumar Patel		
138	Harshal Jayesh Bhanushali	Madhuben & Bhanubhai Patel Institute of Technology (MBIT)	AB
139	Rudra Trivedi		AB
140	Anany Kelotra	Nirma University	
141	Dharm Mankad		AB
142	Harmit Prajapati		
143	Himay Shah		AB
144	Trupesh Surendrakumar Patel		AB
145	Akshat Mistry	G H Patel College of Engineering & Technology	
146	Daksh Chandnani		
147	Dev Manojkumar Ray		
148	Dhyana Joshi		
149	Parshva Shah		
150	Riju Patel		



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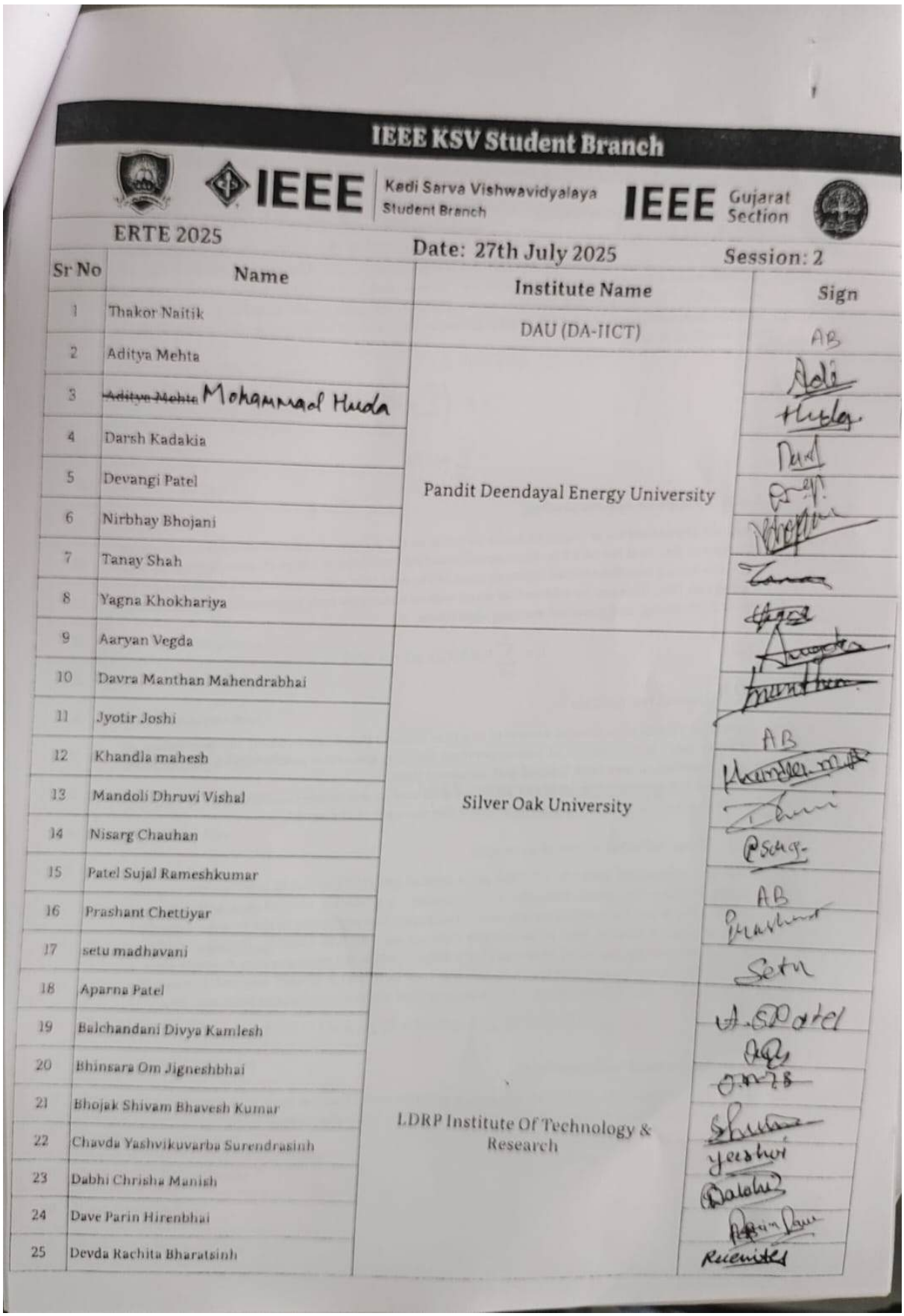
152	Patel Hitee Jitendrakumar	Birla Vishvakarma Mahavidyalaya	AB
153	Dharmin Lad	AURO University	AB
154	Dhruv Vasava		AB
155	Harshsingh Rajput		AB
156	Het Desai		AB
157	Tranag Gotawala		AB
158	Abhijeet Kumar Bhagat	Marwadi University	AB
159	Aditya Raj		
160	Bairy lehyasri		Lehyasri B
161	Gowda Anushka		G Anushka
162	Jahnvi Hiteshbhai Aghera		
163	Janvi Viradiya		
164	Kishan Chauhan		
165	Moraseekam Karthik		Karthik
166	Nandini Lashkari		AB
167	Rudransh Bhatt		
168	Soumar Sikhar Talukdar		AB
169	Tapaswani Biswal		Tapaswani



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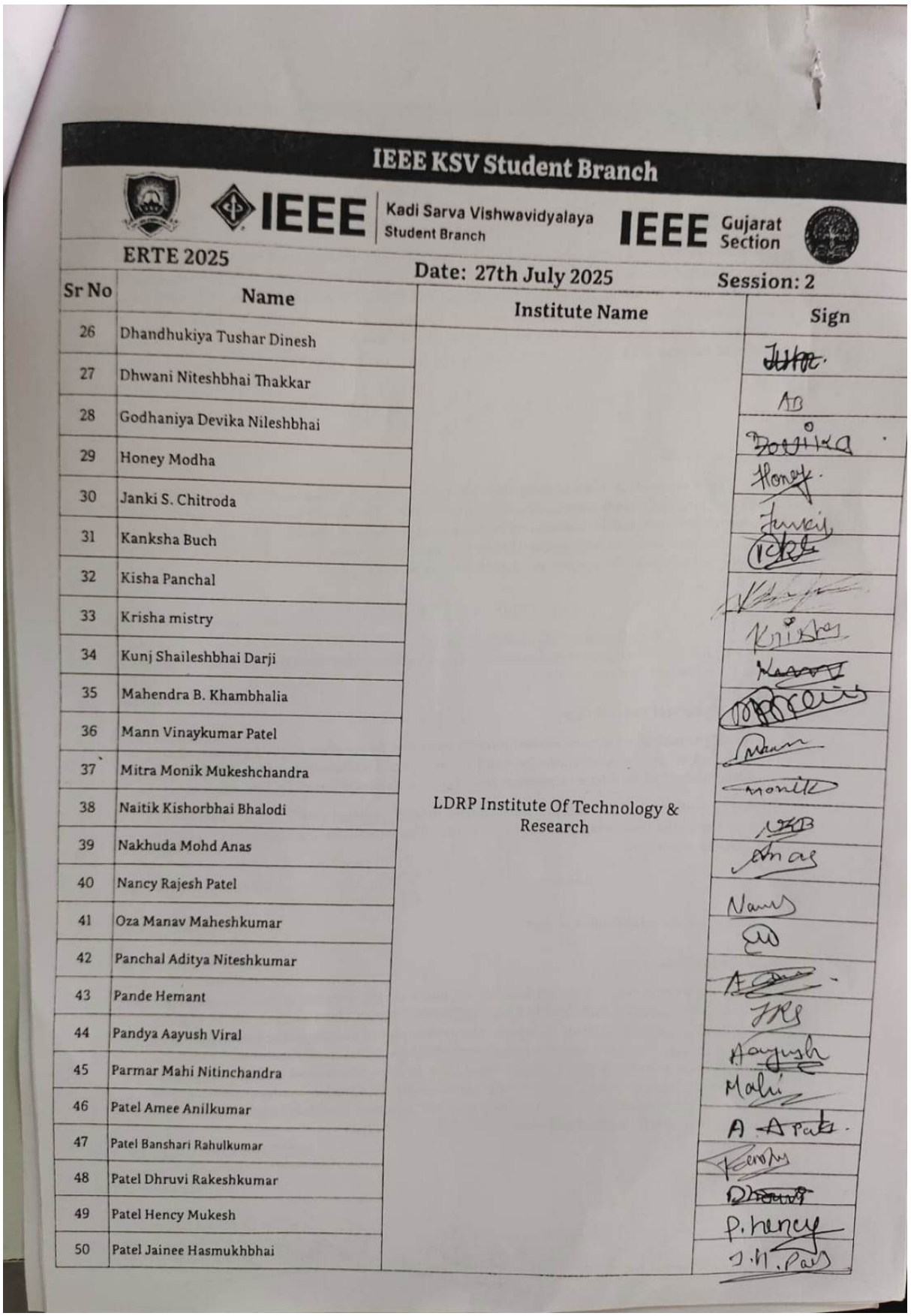
Sr No	Name	Institute Name	Sign
1	Thakor Naitik	DAU (DA-IICT)	AB
2	Aditya Mehta	Pandit Deendayal Energy University	
3	~~Aditya Mehta~~ Mohammad Huda		
4	Darsh Kadakia		
5	Devangi Patel		
6	Nirbhay Bhojani		
7	Tanay Shah		
8	Yagna Khokhariya		
9	Aaryan Vegda	Silver Oak University	
10	Davra Manthan Mahendrabhai		
11	Jyotir Joshi		
12	Khandla mahesh		AB
13	Mandoli Dhruvi Vishal		
14	Nisarg Chauhan		
15	Patel Sujal Rameshkumar		
16	Prashant Chettiyar		AB
17	setu madhavani		
18	Aparna Patel	LDRP Institute Of Technology & Research	
19	Balchandani Divya Kamlesh		
20	Bhinsara Om Jigneshbhai		
21	Bhojak Shivam Bhavesh Kumar		
22	Chavda Yashvikuvarba Surendrasinh		
23	Dabhi Chrisha Manish		
24	Dave Parin Hirenbhai		
25	Devda Rachita Bharatsinh		



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Sr No	Name	Institute Name	Sign
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27	Dhwani Niteshbhai Thakkar		
28	Godhaniya Devika Nileshbhai		
29	Honey Modha		
30	Janki S. Chitroda		
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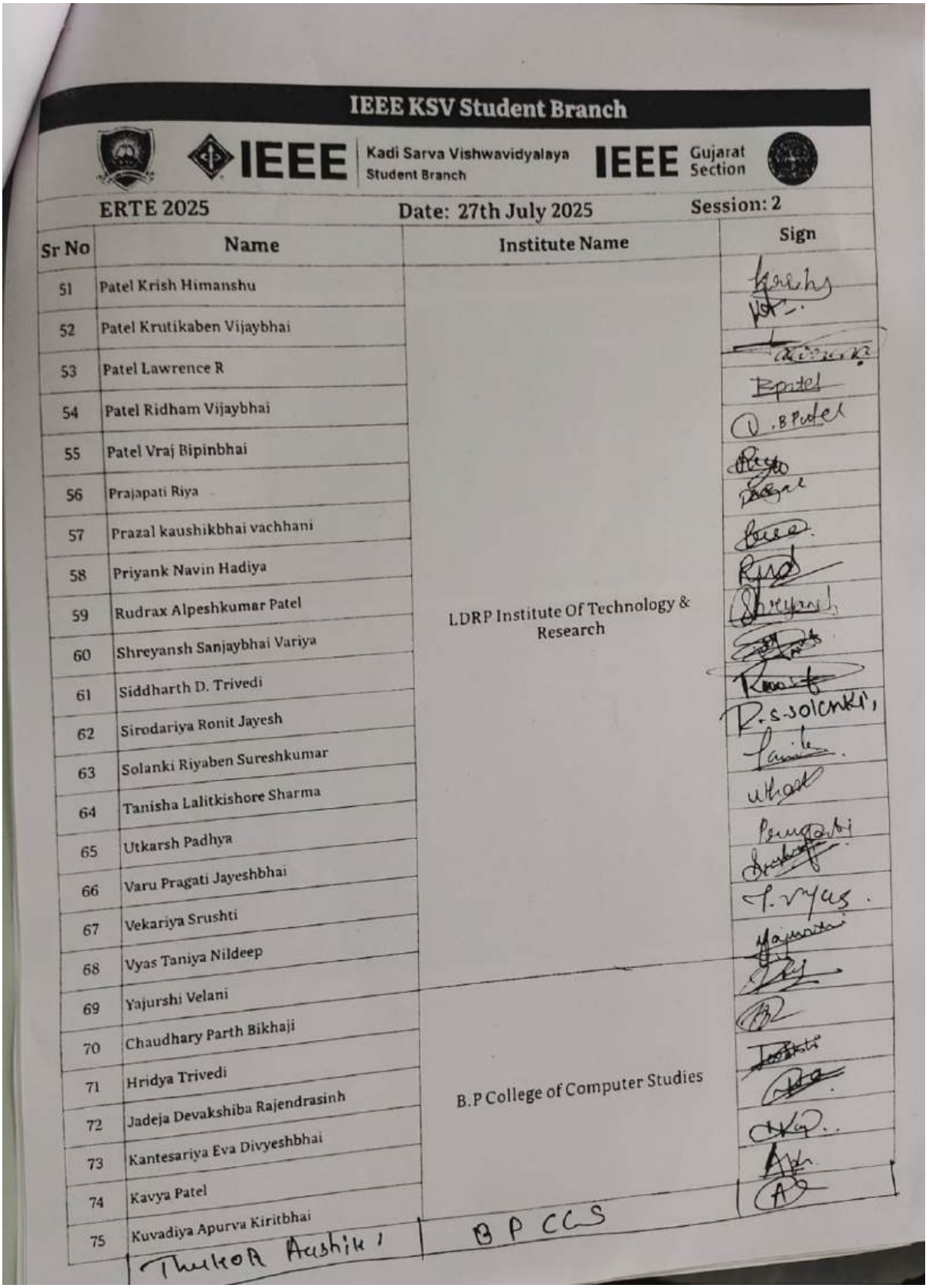

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	Thakor Aashik	BPCCS	

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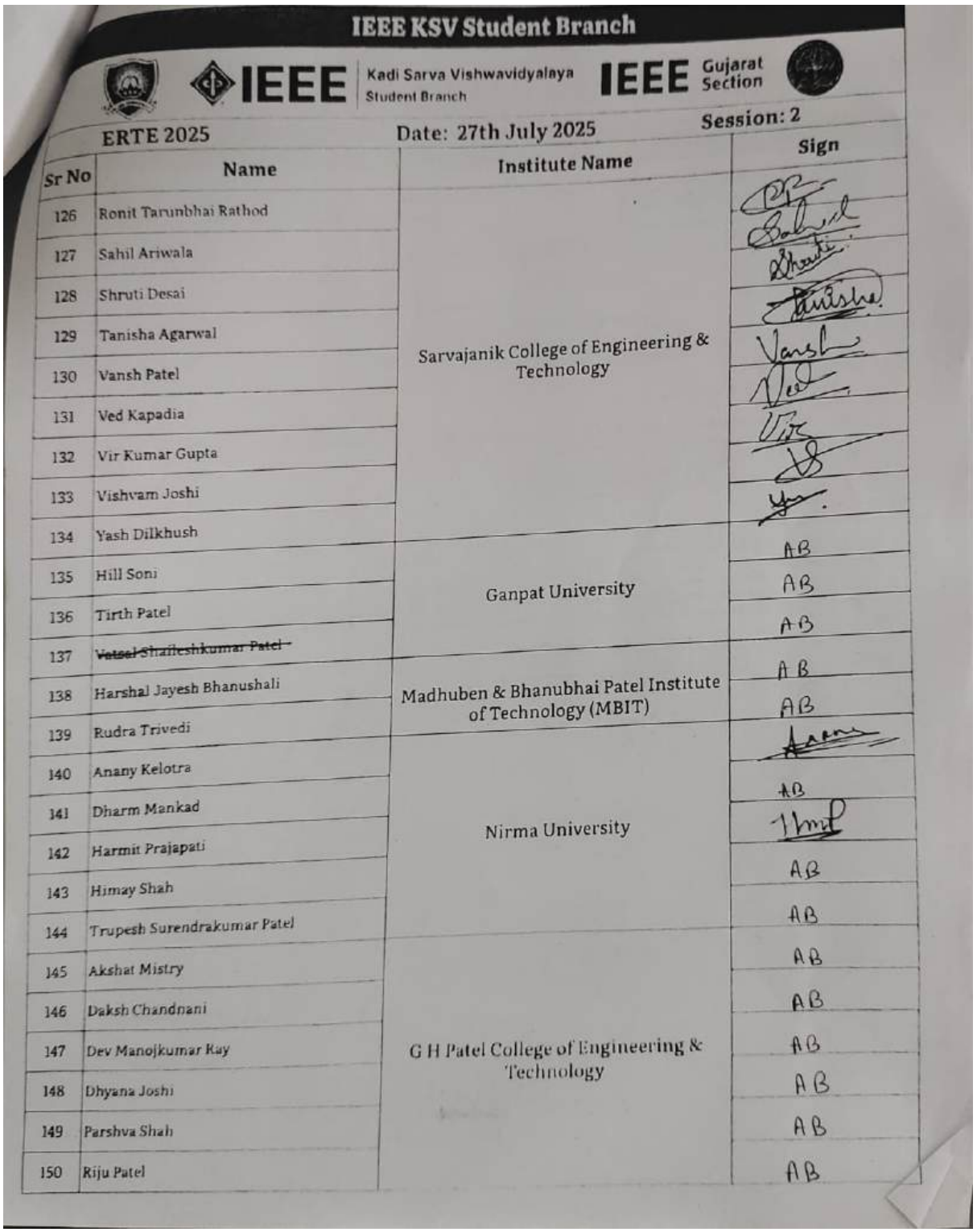

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143	Himay Shah		AB
144	Trupesh Surendrakumar Patel		AB
145	Akshat Mistry	G H Patel College of Engineering & Technology	AB
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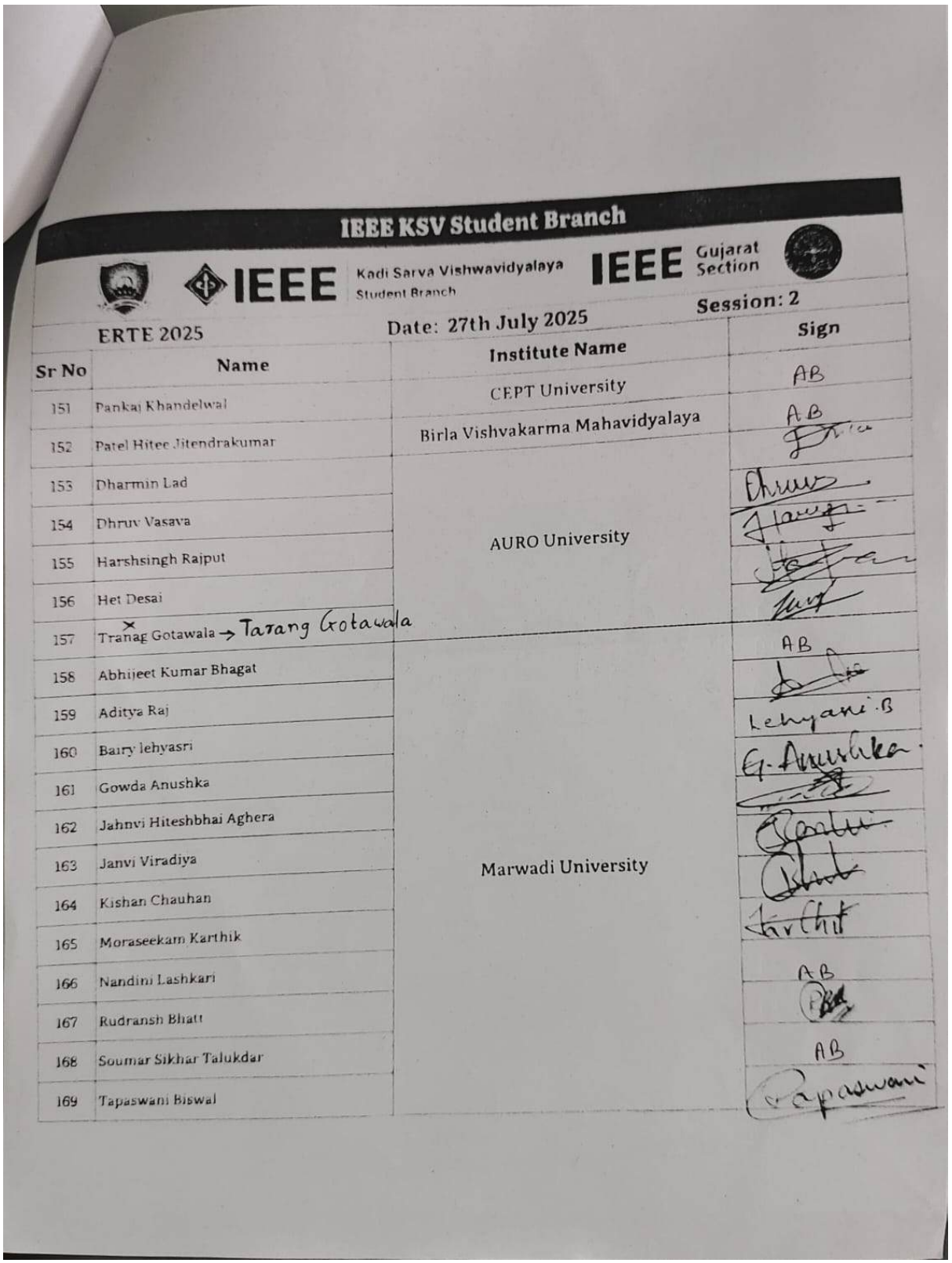
147	Dev Manojkumar Ray		AB
148	Dhyana Joshi		AB
149	Parshva Shah		AB
150	Riju Patel		AB



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155	Harshsingh Rajput		
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157	~~Tranag~~ Gotawala → Tarang Gotawala		
158	Abhijeet Kumar Bhagat	Marwadi University	AB
159	Aditya Raj		
160	Bairy lehyasri		Lehyasri.B
161	Gowda Anushka		G. Anushka
162	Jahnvi Hiteshbhai Aghera		
163	Janvi Viradiya		
164	Kishan Chauhan		
165	Moraseekam Karthik		Karthik
166	Nandini Lashkari		AB
167	Rudransh Bhatt		
168	Soumar Sikhar Talukdar		AB
169	Tapaswani Biswal		Tapaswani

CONCLUSION:

The ERTE (Emerging Research Trends in Engineering) sessions concluded on an inspiring and intellectually stimulating note, leaving a lasting impact on all participants. Over the course of the program, distinguished professors from various renowned institutions across the country came together to share their deep expertise, groundbreaking research, and valuable insights into the rapidly evolving landscape of engineering and technology.

Each session offered a rich and diverse learning experience, addressing cutting-edge topics ranging from artificial intelligence and sustainable technologies to smart systems, advanced computing, and emerging materials. The speakers brought unique academic and industry perspectives, which greatly enriched the discussions and provided participants with a broader understanding of current research challenges and opportunities.

What set the program apart was not only the depth of technical content but also the engaging and interactive delivery that encouraged meaningful dialogue among attendees. Participants were motivated to ask questions, explore new ideas, and think critically about the role of engineering in shaping the future. These sessions served as a catalyst for curiosity, innovation, and collaboration, sparking interest in interdisciplinary research and practical applications.

The collective knowledge and experiences shared throughout the ERTE initiative are expected to have a lasting influence on students, researchers, and faculty alike. It fostered a spirit of academic excellence and innovation, aligning with the larger goal of building a vibrant, research-driven engineering community. The success of the program reflects the dedication of the organizers and the valuable contributions of the speakers, and it sets a strong foundation for similar academic initiatives in the future.