L. D. College of Engineering

Newsletter

January - June 2025

RUBBEROMATIC

Rolling forward with industry leaders

Explore Innovation. Shape the Future

HIGHLIGHTS

- EXPERT SESSIONS
- ACHIVEMENTS
- MAJOR EVENTS
- PLACEMENTS
- WORKSHOPS
- INDUSTRY
- ACHIVEMENTS
- INDUSTRY INTERACTION

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Departmental website

WWW.RUBBERTECH.CO.IN

Driving innovation through Rubber technology

Rubber Technology is a specialized branch of engineering dedicated to transforming natural and synthetic elastomers into reliable, high-performance products for modern industry. The discipline integrates compound formulation, processing techniques, testing methods, and latex technology to ensure that materials meet strict industrial, environmental, and safety standards. Students pursuing Rubber Engineering Technology develop strong practical and technical expertise in compound mixing, mechanical and rheological testing, material selection, and the design of molds and finished rubber products.

A central focus of the field is the development of customized rubber compounds engineered to achieve specific properties such as elasticity, tensile strength, abrasion resistance, heat tolerance, and chemical stability. Through precise compounding and controlled processing, engineers create materials that deliver consistent performance under demanding operating conditions. These engineered elastomers play a critical role in ensuring durability, reliability, and efficiency across a wide range of industrial applications.

The rapid expansion of the automotive and manufacturing sectors has significantly strengthened the rubber industry, increasing the demand for advanced elastomeric materials used in tires, seals, gaskets, hoses, conveyor systems, and vibration-control components. With the emergence of electric vehicles, sustainable materials, and modern safety technologies, the need for innovative and high-performance rubber products continues to grow. In India and globally, this growth is creating strong career opportunities in research, product development, manufacturing, quality assurance, and innovation, positioning Rubber Technology as a dynamic and future-focused engineering field.

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VISION

To develop industry-oriented Rubber Technology professionals with strong technical knowledge, practical skills, and innovative thinking who can contribute to sustainable industrial growth and meet global engineering standards.

To achieve excellence in education, research, and industry collaboration while preparing students to become competent engineers and future leaders in the field of Rubber Technology.

MISSION

To provide quality education in rubber science, processing, testing, and product design through experienced faculty and modern facilities.

To strengthen industry-institute interaction through industrial visits, expert lectures, internships, and placements.

To encourage research, innovation, and project-based learning in rubber and polymer technology.

To develop professional ethics, communication skills, and entrepreneurial mindset among students.

To promote sustainable and eco-friendly practices in rubber technology for societal and industrial benefit.

MESSAGE FROM H.O.D.



Prof.(Dr.)R.N.Desai

Rubber Technology is a specialized and dynamic field dedicated to transforming natural and synthetic elastomers into innovative, high-performance products that serve modern industry and society. At the Department of Rubber Technology, L. D. College of Engineering, we take immense pride in our steady growth in academics, research, and industry placements. Our vision is to achieve global standards in education, research, and training while empowering students to emerge as capable engineers and future leaders in the field of Rubber Technology

We are committed to providing a well-rounded education that blends strong theoretical knowledge with practical exposure. This balanced approach equips our students to address real-world industrial challenges with confidence, self-reliance, and a strong sense of responsibility. With dedicated faculty members, motivated students, and a collaborative academic environment, our department continuously strives to create a culture of excellence and innovation.

Rubber Technology covers a wide spectrum of activities, from the processing of natural and synthetic rubber to the design and development of products that meet stringent industry standards. Our curriculum ensures that students acquire in-depth knowledge of compounding, testing, processing, and product as well as mold design, enabling them to build a solid technical foundation and practical expertise.

With the rapid expansion of the automotive and allied industries, the demand for advanced rubber materials and products has grown significantly. This growth has made Rubber Technology a promising and rewarding career path, offering diverse opportunities in research, manufacturing, quality assurance, and product development both in India and globally.

I am confident that our students will continue to excel in their professional journeys and uphold the reputation of the department through their competence, dedication, and innovation. I extend my best wishes to all our students for a successful and fulfilling future.

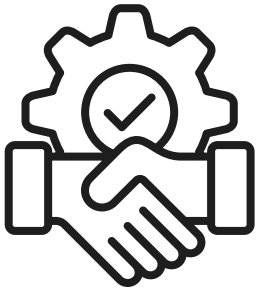
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Prof. (Dr.) R. N. Desai
Head, Department of Rubber Technology
L. D. College of Engineering

MAJOR EVENTS

- The Rubber Technology department has arranged a motivational session for students of B.E. VIII on 6th May, 2025 at Rubber Technology Department, L.D.College of Engineering. The Alumni,Mr.Atul Shah was invited as a speaker.



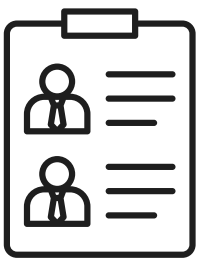
- The Rubber Technology department has arranged a Placement of Rubber King for BE & ME Rubber Technology students on 1st March, 2025.

- The Rubber Technology department has arranged a Placement of Raychem RPG for BE & ME Rubber Technology students on 12th March, 2025.



- The Rubber Technology department has arranged an Expert session on “From Campus to Corporate: mastering your interview Skills” Jointly organized by Chemical, Rubber and Plastic Department at Aryabhatt Hall, on 08 th May 2025. More than 75 Students participated in the event.

- The Rubber Technology department has arranged a Placement of BKT Tyres for BE Rubber Technology students on , 16th June 2025.



- The Rubber Technology department has arranged an Online Placement of ALP Nishikawa co. PVT LTD. for BE Rubber Technology students on 4th May,2025.

- The Rubber Technology department has arranged an Orientation event for BE first year Rubber Technology students on 19th June, 2025 at Rubber Technology Department.

- The Rubber Technology department has arranged an event, Globa Alumni Convention, GAC-2025 on 04th January 2025



DEPARTMENTAL ACTIVITIES

- Quiz Competition on Basics of Rubber Technology
  - In association with the Bureau of Indian Standards (BIS), the department organized a quiz competition for UG and PG students at Maxxis Tyres, Sanand on 15 February 2025. The event was coordinated by Prof. Sunil Padhiyar, Prof. Bhakti Patel, and the HR team of Maxxis Tyres.
- Expert Talk on SSIP Projects
  - Dr. R. N. Desai arranged an expert session on “Awareness regarding SSIP Projects and its Implementation” on 10 February 2025 for UG and PG students. The session was delivered by Mr. Atul Shah, Managing Director of Pioneer Industries.
- Guidance Session on GATE Preparation
  - An expert talk on “Strategic Planning for Preparation of GATE Examination” was organized on 15 March 2025 for UG students. The session was conducted by Mr. Shyam Chauhan, Rubber Alumni and IIT student.
- Pedagogy on Quality Assessment Techniques
  - On 25 March 2025, a faculty pedagogy session was conducted by Mr. Rohan Rathod, Senior Engineer (Quality Control), Chemprocess, on “Techniques for Assessment and Improvement in Quality of Rubber Products.”
- Advanced Characterization of Rubber
  - On 11 June 2025, Mr. Darshan Shah, Rubber Alumni and Managing Director of Rubber Concept, conducted a pedagogy session for faculty on “Characterization of Rubber and its Properties with Advanced Technologies.”
- Session on Communication Skills Development
  - A pedagogy session on “Strategic Approach for Development of Good Communication Skills” was organized on 13 June 2025. The session was delivered by Mr. Ramandeep Bhalla, Marketing Executive at Ami Polymers, and attended by faculty members.

INDUSTRY INTERACTION

Sr. No.	Event Type	Date	Target Audience	Industry / Organization	Participants	Coordinator
1	Industrial Visit	15/02/2025	B.E. & M.E. Rubber Technology Students	Maxxis Tyres, Santej	50	Prof. B. D. Patel & Prof. S. J. Padhiyar
2	Technical Talk	05/02/2025	BE Final Year Students	Acrosil Products Pvt. Ltd.	12	Prof. A.D. Bhatt
3	Technical Talk	6/1/2025	BE Final Year Students	Flextron Rubber Pvt. Ltd.	10	Prof. S. J. Padhiyar
4	Technical Talk	23/02/2025	BE Final Year Students	BKT Tyre	15	Prof. S. J. Padhiyar
5	Technical Talk	1/3/2025	BE Final Year Students	Rubber King Tyres	15	Prof. B. D. Patel & Prof. G. G. Bhatt
6	Technical Talk	3/3/2025	BE Final Year Students	Sanvi Rubber Products	12	Prof. R. Y. Modan
7	Technical Talk	25/03/2025	BE Final Year Students	CEAT Tyre Ltd.	10	Dr. R. N. Desai
8	Industrial Visit	3/4/2025	BE VI & ME IV Students	Eeshaan Automation Pvt. Ltd., Ahmedabad	14	Prof. Sunil Padhiyar
9	Industrial Visit	2/5/2025	M.E. IV Students	National Institute of Pharmaceutical Education and Research, Ahmedabad	6	Prof. R. N. Desai & Prof. Sunil Padhiyar

INDUSTRY INTERACTION

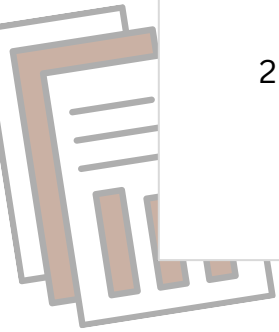
10	Technical Talk	25/06/2025	B.E. VII Students	Polygold Precured Systems Pvt. Ltd.	5	Prof. R. N. Desai
11	Technical Talk	25/06/2025	B.E. VII Students	Kissco Rubber Industries	5	Prof. R. Y. Modan
12	Technical Talk	26/06/2025	B.E. VII Students	Deltora Biopolymers Pvt. Ltd., Ahmedabad	3	Prof. Sunil Padhiyar
13	Technical Talk	30/06/2025	B.E. VII Students	Pioneer Rubber Industries	5	Prof. B. D. Patel
14	Technical Talk	30/06/2025	B.E. VII Students	Jemco Rubber	5	Prof. A. D. Bhatt
15	Technical Talk	30/06/2025	B.E. VII Students	Apollo Tyres	10	Prof. G. G. Bhatt

PAPERS PRESENTED/PUBLISHED

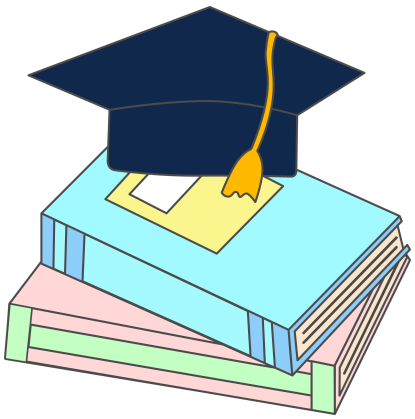
Sr. No.	Faculty Name	Title of the Paper	Journal / Conference Details
1	Prof. Sunil Padhiyar	*Harnessing PET Waste for Sustainable Rubber Reinforcement*	Presented at National Conference on Recent Advances in Polymer and Chemical Sciences, 20–21 January 2025, Udaipur
2	Prof. Gnanu G. Bhatt & Daxit Soni	*Synergistic Flame-Retardant Effect of Boron-Coated Expandable Graphite (BEG) and Ammonium Polyphosphate (APP) in Rigid Polyurethane Foam (RPUF)*	Sixth International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy Engineering (SME 2025), held at NMAM Institute of Technology, Nitte, India, 06–07 February 2025 (under ICETE 2025 Multiconference Platform)
3	Prof. Anal D. Bhatt	*Alkylimidazolium Chloride Ionic Liquids as Green Additives in Rubber Composites: A Comprehensive Review*	Journal of Polymer and Composites, June 2025

THESIS/DISSERTATION

Sr. No.	Name of the Student	Title of the Dissertation	Guide
1	Maulik Chauhan	*Sustainable Reinforcement of Rubber Compound Using Recycled PET (Polyethylene Terephthalate)*	Dr. Rupande N. Desai & Prof. Sunil Padhiyar
2	Dhruv Patel	*Development of Silicone Rubber–PLA Blend for Advanced Material Applications*	Dr. Rupande N. Desai & Prof. Sunil Padhiyar







FACULTY ACHIEVEMENT

Institutional Achievements & Professional Engagement

- Renewal of IEI Student Chapter

Prof. R. N. Desai and Prof. B. D. Patel successfully coordinated the renewal of the Institution of Engineers (IEI) Student Chapter for the Rubber Technology Department. The chapter has been extended up to 2027, strengthening professional engagement, student activities, and technical exposure.

- Jury & Professional Development

Prof. B. D. Patel served as a jury member in the Hackathon organized on World Environment Day, 5 June 2025, at L. D. College of Engineering. He also participated in the Mentors Training Workshop for the "Resource Support Team" organized by the Bureau of Indian Standards (BIS) on 30 May 2025, enhancing mentoring and industry collaboration skills.

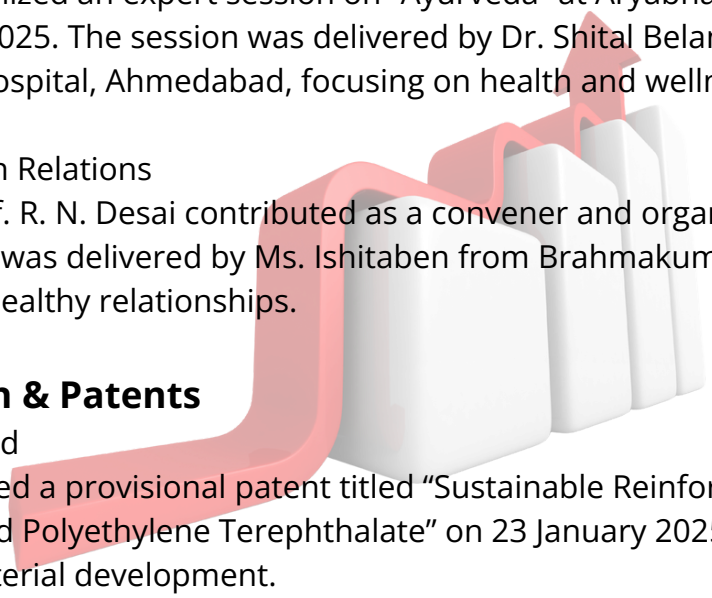
Expert Sessions & Awareness Programs

- Session on Ayurveda

Prof. R. N. Desai organized an expert session on "Ayurveda" at Aryabhatt Hall, L. D. College of Engineering on 6 March 2025. The session was delivered by Dr. Shital Belani (BAMS), RMO, Sanjivani Government Ayurvedic Hospital, Ahmedabad, focusing on health and wellness awareness for faculty and students.

- Session on Positivity in Relations

On 17 April 2025, Prof. R. N. Desai contributed as a convener and organized a session on "Positivity in Relations." The session was delivered by Ms. Ishitaben from Brahmakumaris and emphasized personal well-being and healthy relationships.



Research, Innovation & Patents

- Provisional Patent Filed

Prof. Sunil Padhiyar filed a provisional patent titled "Sustainable Reinforcement of Rubber Compound Using Recycled Polyethylene Terephthalate" on 23 January 2025, marking a significant step in sustainable rubber material development.

- SSIP Grant Achievement

The project titled "ReViver," guided by Prof. Sunil Padhiyar and Prof. Bhakti Patel, was selected for a grant of ₹1 lakh under SSIP 2.0 Phase 5 on 27 February 2025, recognizing innovative research and product development.

- Best Paper Award

Prof. Gnanu G. Bhatt and Mr. Daxit Soni received the Best Paper Award at an international conference for their research on the synergistic flame-retardant effect of additives in rigid polyurethane foam.

FACULTY ACHIEVEMENT

Media Recognition & Public Outreach

- Reinforcing Filler from Waste Water Bottles

Research conducted by Prof. R. N. Desai and Prof. Sunil Padhiyar on developing reinforcing filler from waste water bottles was published in Bhasker Exclusive on 19 February 2025.

- Rubber Tiles from Waste Tires and Saw Dust

Prof. Gnanu G. Bhatt's research on manufacturing rubber tiles from waste tires and saw dust was featured in Gujarat Samachar on 27 February 2025, promoting sustainable recycling practices.

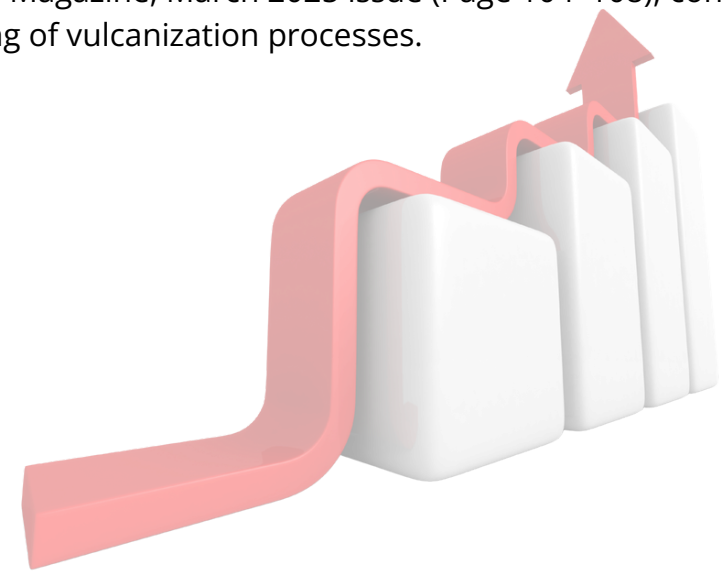
- Soil Fertilizers from Waste Surgical Gloves

Research by Prof. R. N. Desai and Prof. B. D. Patel on converting waste surgical gloves into soil fertilizers was published in Gujarat Samachar on 22 March 2025.

Publications

- Article in Rubber India Magazine

Prof. Anal D. Bhatt published an article titled "Basics of Rubber Vulcanization" in the Knowledge Section of Rubber India Magazine, March 2025 issue (Page 104–108), contributing to academic and industrial understanding of vulcanization processes.



STUDENT ACHIVEMENT

Sports Achievements

- National-Level Woodball Victory

Mr. Hrishikesh Singh (B.E. Semester VIII) represented Gujarat Technological University at the National-level Woodball Tournament held at Parul University, Vadodara (2–11 March 2025). Organized by the Woodball Association of Nagpur, his team secured victory at the national level, bringing pride to the university and department.

- Zonal Blind Football Championship

Mr. Devansh Raval (B.E. Semester VI) participated in the 4th Zonal Blind Football Tournament held in Ahmedabad. Playing as goalkeeper, he played a decisive role in the final penalty shootout, helping Gujarat defeat Kerala 1–0 and emerge as champions.

- National-Level Kabaddi Representation

Mr. Prashant Kushwaha and his team reached the grand final and represented the college at the national-level Kabaddi tournament organized by Indus University (6–12 January 2025), adding to the institution's sporting achievements.

Student Research & Publications

- International Conference Paper Publication

Mr. Raj Vasani, Mr. Siddhant Patil, Mr. Pratik Bagul, and Mr. Ujjwal Vig (B.E. Semester VIII), under the guidance of Prof. Gnanu G. Bhatt, published a research paper on the synergistic effect of co-cure activators on polybutadiene rubber vulcanization. This reflects the department's strong emphasis on research and technical innovation at the undergraduate level.

- Journal Publication Achievement

Mr. Maulik Chauhan (M.E. Semester IV) authored a review paper titled "Sustainable Reinforcement of Rubber Compound using Recycled PET," accepted for publication in Polymers and Polymer Composites on 17 May 2025. The work highlights student contribution toward sustainable material development.

Innovation & Hackathon Success

- First Prize in State-Level Hackathon

Mr. Sahil Prajapati (B.E. Semester VI) and Mr. Maulik Chauhan (M.E. Semester IV) secured First Prize at a state-level Hackathon held at L. D. College of Engineering for their project "Sustainable Future." Guided by Prof. Sunil Padhiyar, the project focused on environmental responsibility and sustainable solutions.

STUDENT ACHIVEMENT

Industrial Exposure & Technical Visits

- Industry Visits – M.E. Students

Mr. Maulik Chauhan visited multiple rubber industries and research institutes including Badri Narain Rubbers Pvt. Ltd. (Halol), Sanvi Rubber Products (Vadodara), Vaibhav Enterprise (Ahmedabad), Movil Rubtech India LLP (Ahmedabad), and NIPER Ahmedabad during March 2025.

Mr. Dhruvkumar Patel (M.E. Semester IV) visited Universal Masterbatch LLP and CIPET Ahmedabad, gaining practical exposure to polymer processing and research practices.

These visits provided hands-on understanding of industrial operations and advanced material technologies.

Career Development Activities

- Expert Session on Interview Skills

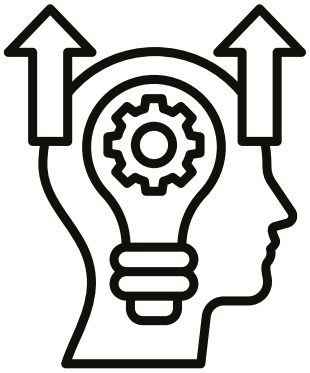
Students of B.E. Semester VI and VIII attended a session titled “From Campus to Corporate: Mastering Your Interview Skills” on 8 May 2025 at Aryabhatt Hall. The session focused on interview preparation, professional communication, and career readiness, supporting students in their transition from academics to industry.

PROFESSIONAL DEVELOPMENT

Sr. No.	Faculty Name	Activity	Details	Duration / Date	Place
1	Prof. B. D. Patel	Completed NPTEL MOOC Course	Characterization of Polymers, Elastomers and Composites	Jan–April 2025 (12 Weeks)	Online (NPTEL)
2	Prof. Sunil Padhiyar	Completed NPTEL MOOC Course	Characterization of Polymers, Elastomers and Composites	Jan–April 2025 (12 Weeks)	Online (NPTEL)
3	Prof. Sunil Padhiyar	Completed NPTEL MOOC Course	Processing of Polymers and Polymer Composites	Jan–March 2025 (8 Weeks)	Online (NPTEL)
4	Prof. Gnanu G. Bhatt	Completed NPTEL MOOC Course	Processing of Polymers and Polymer Composites	Jan–March 2025 (8 Weeks)	Online (NPTEL)
5	Prof. Riyaz Y. Modan	Completed NPTEL MOOC Course (Cleared with 75%)	Processing of Polymers and Polymer Composites	Jan–March 2025 (8 Weeks)	Online (NPTEL)
6	Prof. Sunil Padhiyar	Participated in Webinar	Application of Emerging Technology in Rubber Industry	8/2/2025	IRI, Udaipur, Rajasthan
7	Prof. Sunil Padhiyar & Prof. Riyaz Y. Modan	Attended as Mentor	Vejalpur Startup Festival 2025	22/03/2025	JADE Banquet, Ahmedabad

PROFESSIONAL DEVELOPMENT

8	Prof. B. D. Patel	Attended Special Talk	Good Practices at Auroville	3/1/2025	AMA Center for Tourism and Hospitality Management
9	Prof. A. D. Bhatt & Prof. B. D. Patel	Attended Expert Session	Ayurveda	6/3/2025	Aryabhata Hall, L.D. College of Engineering
10	Prof. R. Y. Modan	Attended AI Workshop	Artificial Intelligence Workshop organized by DTE	20/06/2025	Directorate of Technical Education, Gandhinagar
11	Prof. G. G. Bhatt	Attended Training Program	Empowering Educators through Research and Incubation Excellence and NEP Insights	01/06/2025–06/06/2025	I-Hub





COMMUNITY ENGAGEMENT AND SPORTS

- Mr. Hrishikesh Singh represented Gujarat Technological University at the National-level Woodball Tournament held at Parul University, Vadodara (2–11 March 2025). His team delivered an outstanding performance and secured national-level victory.





- Mr. Devansh Raval participated in the 4th Zonal Blind Football Tournament held in Ahmedabad, where his team emerged as champions. As goalkeeper, he played a decisive role in the penalty shootout, saving a crucial penalty to secure a 1–0 victory against Kerala in the final.

- Mr. Prashant Kushwaha and his team represented the college at the national-level Kabaddi tournament organized by Indus University from 6–12 January 2025. Their selection for the grand final brought recognition and pride to the department and the institution.

- Devansh Raval (B.E. Semester VI, Rubber Technology) showcased exceptional performance as a goalkeeper in a Blind Football tournament, playing a key role in his team's victory. His dedication and sportsmanship reflect the department's commitment to overall student development beyond academics.





Nvidia Hits New High To Reclaim Most Valued Co Tag

TIMES BUSINESS

SPOTLIGHT

IBFF Premier League 2025: A Landmark Celebration of Blind Football Talent in Ahmedabad

The Indian Blind Football Federation held the first Indian Blind Football Premier League in Ahmedabad, sponsored by Prudent Corporate Advisory Services Ltd, in partnership with the Blind People's Association and Bright Foundation

MISCELLANEOUS

Industry Visits: Maxxis



Industry Visits: Eeshaan



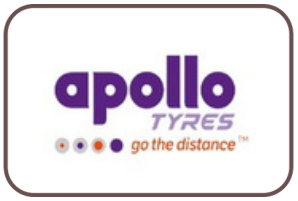
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MAJOR RECRUITERS













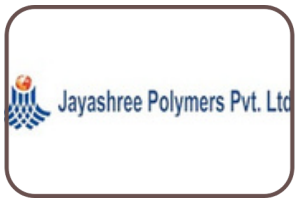






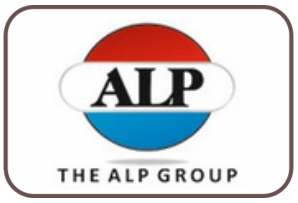






















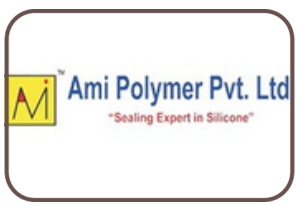
















FACULTIES



Prof. (Dr.) R. N. Desai Head of the Department



Prof. A. D. Bhatt
Assistant Professor



Prof. B. D. Patel
Assistant Professor



Prof. S. J. Padhiyar
Assistant Professor



Prof. G. G. Bhatt
Assistant Professor



Prof. R. Y. Modan
Assistant Professor

This Newsletter has been designed by **Aditya purohit** And **Amit Modi**.
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