NEWSLETTER
JANUARY - JUNE 2024

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RUBBER TECHNOLOGY DEAPRTMENT,
L. D. COLLEGE OF ENGINEERING

WWW.RUBBERTECH.CO.IN

THE RESOURCES BEHIND THE WHEELS OF TECHNOLOGY

Rubber technology is a specialized field that focuses on transforming rubbers or elastomers into functional products. This includes the processing of both natural and synthetic rubbers, as well as latex production, to meet industry standards. Rubber Engineering Technology programs provide students with a comprehensive understanding of the field, covering the mixing and testing of rubber compounds, processing techniques, product and mold design, and material selection.

One of the key areas of rubber technology is the development of rubber compounds with specific properties such as elasticity, durability, and heat resistance. Students learn to engineer compounds to meet stringent industry requirements and design molds that ensure products meet performance standards.

The increasing demand for automobiles has significantly boosted the rubber industry, particularly in the production of tires, seals, gaskets, and hoses. As the automotive sector grows globally, the need for high-performance rubber materials has skyrocketed. Innovations in automotive technology, such as electric vehicles and advanced safety features, further drive the demand for specialized rubber products.

In India, the rubber industry is expanding rapidly, offering a wealth of career opportunities in manufacturing, design, and product development. The global demand for experts in rubber technology is also rising, making this a lucrative and rewarding field. Rubber technology professionals play a crucial role in driving innovation and meeting the evolving needs of industries worldwide.

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Vision

To achieve global standards in quality of Education, Research & Developments, Training in rubber technology and to empower the students to be leader in rubber technology.

Mission

- To Develop Industry Oriented Rubber Technology graduates to accept the challenges of society by, Teaching Rubber Technology knowledge through highly qualified and trained faculty in encouraging environment.
- Creating awareness about the needs of industries and society through alumni and Industry-Institute interactions.
- Encouraging them to think inventively and introduce them to various research activities through advanced project works related to Rubber Technology.
- Supporting them to prepare in all aspects like communication, entrepreneurship, and interpersonal skills.

MESSAGE FROM H.O.D.



Prof. (Dr.) R. N. Desai

Rubber Technology is a specialized and dynamic field focused on transforming rubbers or elastomers into useful, innovative products. At the Department of Rubber Technology, L. D. College of Engineering, we take great pride in our continuous growth in academics, research, and industry placements. Our vision is to set global standards in education, research, and training while empowering students to become leaders in the field of Rubber Technology.

We are committed to providing our students with a well-rounded education that blends intellectual growth with hands-on experience. This unique approach equips them to meet a variety of societal needs, fostering confidence, self-reliance, and responsibility necessary to serve our nation. With our hardworking students, dynamic faculty, and collaborative culture, our department creates an environment of excellence.

The field of Rubber Technology encompasses diverse areas, from the processing of natural and synthetic rubber to the design of products that meet industry standards. Our curriculum ensures that students gain advanced knowledge in mixing, testing, and processing rubber compounds, as well as product and mold design.

The growing demand for rubber in industries, especially with the rise of the automotive sector, makes Rubber Technology a promising and rewarding career path. With a booming rubber industry both in India and globally, the demand for skilled professionals is on the rise.

I am confident that our students will continue to excel and uphold the department's reputation with their professional competence and dedication.
I wish them all the best in their future endeavors.

- Prof. (Dr.) R. N. Desai

MAJOR EVENTS

- **The Rubber Technology Department has organized a one-day symposium on "UNDERSTANDING GST: INDIAN TAXATION SYSTEM" on January 8, 2024.The symposium aimed to provide approximately 50 participating students with a comprehensive understanding of the Indian taxation system and followed by quiz and prize distribution.**





- **The Rubber Technology department has arranged a HR meet on 06th January 2024 as a part of Global Alumni Convention- 2024. The faculties and Alumni of department have participated.**
- **The Rubber Technology department was awarded with trophy in respect of NBA achievement for three years for UG course during alumni GAC 2024.**
- **The Rubber Technology department has arranged an UG Admission Awareness session at RMWA- Rubber Manufacturers & Welfare Association on 11th May 2024.**



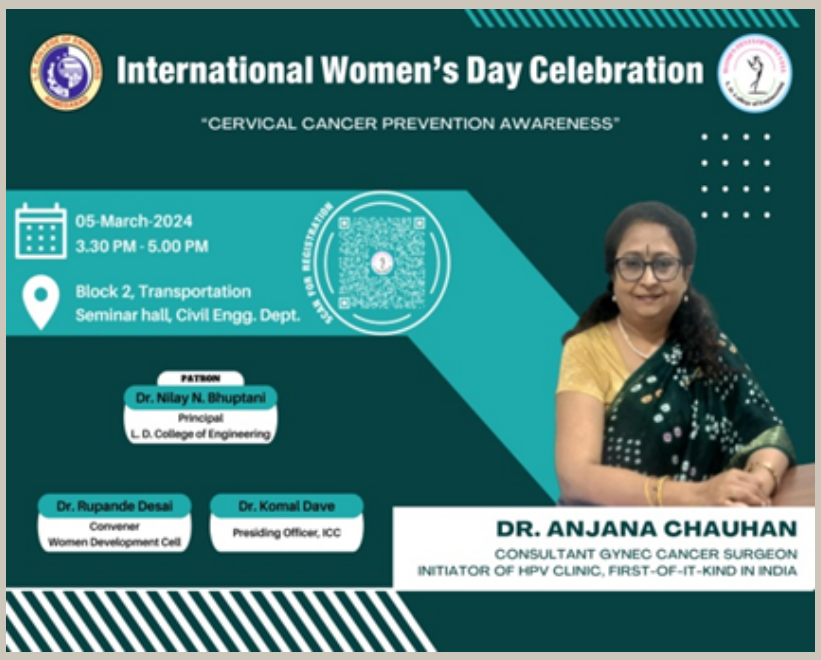
- **The Rubber Technology department has done MOU with Green Vision, Vision Industries, Ahmedabad, MD, Mr. Prakash Patel on 6th January 2024.**
- **The Rubber Technology department has arranged an UG Admission Awareness session at RMWA- Rubber Manufacturers & Welfare Association on 11th May 2024.**

DEPARTMENTAL ACTIVITIES

- **Dr. R. N. Desai has arranged an expert talk on "All about Rubber O-Rings & Gaskets" on 12th February, 2024 for UG Rubber Technology students. The session was delivered by Mr. Atul Shah, Director, Pioneer Rubber Industries.**



- **Dr. R. N. Desai has arranged an Expert session on "Cervical Cancer Prevention Awareness" as a part of International Women's Day celebration on 05th March 2024 at Transportation Seminar Hall, L. D. College of Engineering. The session was delivered by Dr. Anjana Chauhan, female faculties and girls students of the college were participated.**



- **The Rubber Technology Department has arranged an expert lecture on "Rheological characteristics of Rubber" on 13th February 2024 delivered by Mr. Darshan Shah, MD, Rubber Concept and attended by UG students of department.**

- **The Rubber Technology Department arranged pedagogy with Mr. Ronak Panchal, MD, Pravin engineering works, on "Future of Rubber Reclamation and its global importance" on 14th February 2024 and attended by faculties.**

DEPARTMENTAL ACTIVITIES

- **The Rubber Technology Department arranged a placement of BKT Tyres for students of Rubber Technology on 20th February 2024. Prof. S. J. Padhiyar has coordinated and two students get placed and two student got Internship.**

- **The Rubber Technology Department has arranged pedagogy with Mr. Ramandeep Bhalla, marketing manager, Ami Polymers on "Demand of Silicon rubber products in Pharmaceutical industries" on 02nd March 2024 and attended by faculties.**

- **The Rubber Technology Department has arranged an expert session on "Weather resistance of different rubbers" on 06th March 2024 delivered by Mr. Ankit Vandra, Alumni, Rubber Technology.**

- **Dr. R. N. Desai has arranged an expert talk on "High performance Rubber products" on 15th April, 2024 for UG Rubber Technology students. The session was delivered by Mr. Atul Shah, Director, Pioneer Rubber Industries.**

- **Dr. R. N. Desai has arranged an expert talk on "Art of rubber compounding" on 26th April, 2024 for UG Rubber Technology students. The session was delivered by Mr. Ankit Vandra, Alumni, Rubber Technology Department.**

- **The Rubber Technology Department arranged pedagogy with Mr. Nikunj Thakkar, Marketing Head, GP Petroleum Ltd. on "Importance of Plasticizers in Rubber Industries" on 04th May 2024 and attended by faculties.**

- **The Rubber Technology Department arranged a placement of BKT Tyres, CEAT Tyres, Welspun, Rubber King, Sevitsil, Ami Polymers, Parth Rubber, MLA Industries for students and 100% placement achieved.**

- **The Rubber Technology Department has carried out Orientation-2k24 program for first year UG Rubber Technology students on 27th June 2024.**

INDUSTRY INTERACTION

- **Rubber Technology Department organized a Technical Talk on 10/01/2024 for Faculty and Company Representatives at Green Vision, Vision Industries. The event had 10 participants, and it was coordinated by Prof. Sunil Padhiyar.**

- **Rubber Technology Department organized a Technical Talk on 20/01/2024 for UG Rubber Technology Students via Sevitsil Ltd. (Online). The event had 20 participants, and it was coordinated by Prof. B. D. Patel.**

- **Rubber Technology Department organized Technical Guidance on 09/02/2024 for Faculties and Company Representatives at N B Commercial Enterprises Ltd. The event had 10 participants, and it was coordinated by Prof. R. N. Desai and Prof. G. G. Bhatt.**

- **Rubber Technology Department organized an Industrial Visit on 02/03/2024 for B.E. SEM 6 and B.E. SEM 4 Students at Parth RubTech Pvt. Ltd. The event had 30 participants, and it was coordinated by Prof. Gnanu Bhatt.**



- **Rubber Technology Department organized a Technical Talk on 27/03/2024 for Rubber Technology Students at Rubber King Tyre Pvt. Ltd. The event had 14 participants, and it was coordinated by Prof. Anal D. Bhatt.**

- **Rubber Technology Department organized a Technical Talk on 29/01/2024 for Rubber Technology Students at Ami Polymers Ltd. The event had 12 participants, and it was coordinated by Prof. R. Y. Modan.**

INDUSTRY INTERACTION

- **Rubber Technology Department organized a Technical Talk on 27/06/2024 for Faculty and Company Representatives at Apollo Tyres Ltd. The event had 10 participants, and it was coordinated by Prof. (Dr.) Rupande N. Desai.**

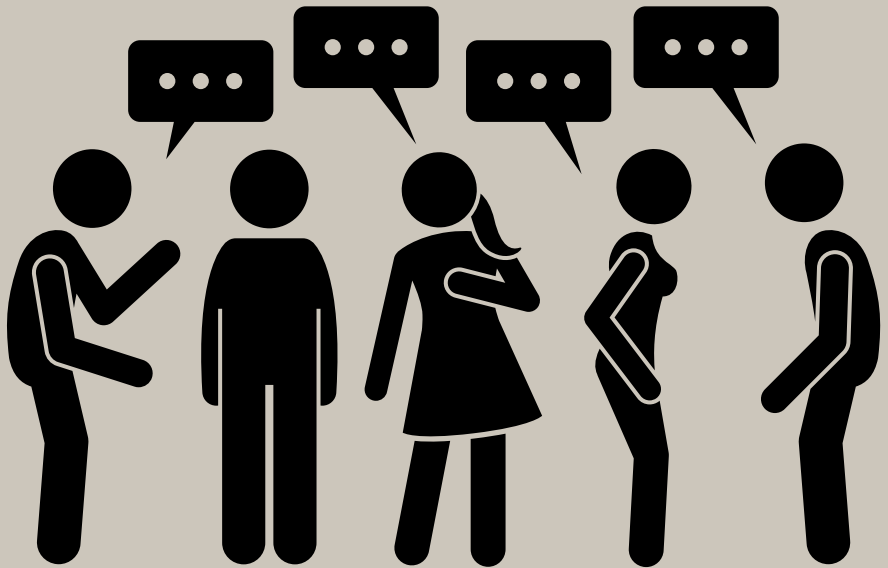
- **Rubber Technology Department organized a Technical Talk on 29/06/2024 for UG Rubber Technology Students at Suresh Enterprise (Sevitsil). The event had 8 participants, and it was coordinated by Prof. Anal D. Bhatt.**

- **Rubber Technology Department organized a Technical Talk on 29/06/2024 for UG Rubber Technology Students at Raghuvanshi Rubber Industries. The event had 6 participants, and it was coordinated by Prof. Bhakti D. Patel.**

- **Rubber Technology Department organized a Technical Talk on 29/06/2024 for UG Rubber Technology Students at Bymer Elastomer. The event had 10 participants, and it was coordinated by Prof. Sunil J. Padhiyar.**

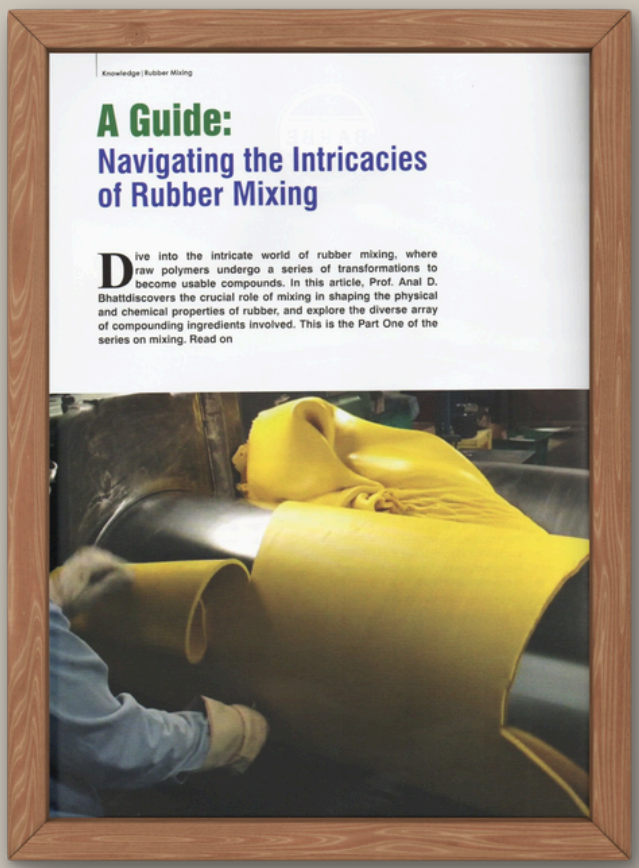
- **Rubber Technology Department organized a Technical Talk on 29/06/2024 for UG Rubber Technology Students at Goodwill Polymers. The event had 8 participants, and it was coordinated by Prof. Gnanu G. Bhatt.**

- **Rubber Technology Department organized a Technical Talk on 29/06/2024 for UG Rubber Technology Students at Naik Rubber Products. The event had 4 participants, and it was coordinated by Prof. Riyaz Y. Modan.**



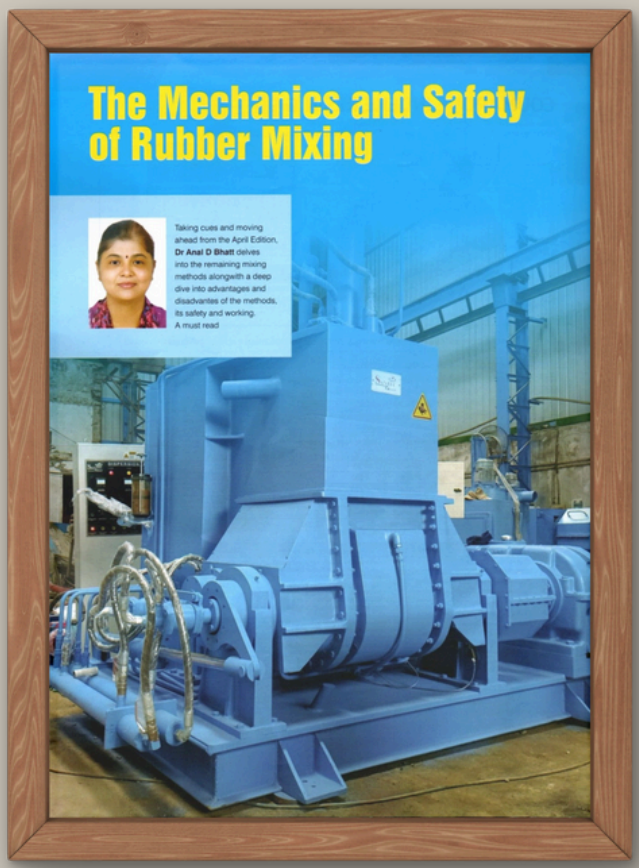
PAPERS PRESENTED/PUBLISHED

- **Prof. Anal D. Bhatt presented a paper on "Role of Green Solvent/Ionic Liquid in Modification of Properties of Rubber Composites" on 14th March 2024 at the International Conference on "Advancements in Polymeric Materials-APM-2024", which focused on Sustainable and Innovative Materials and Design for Global Needs.**
- **Prof. Sunil Padhiyar presented a paper on "Lignin Innovations: Enhancing Rubber Performance through Sustainable Solutions" on January 5-6, 2024 at the National Conference on Recent Trends in Polymer and Chemical Science held at Mohanlal Sukhadia University, Udaipur.**
- **Prof. Anal D. Bhatt authored an article titled "A Guide Navigating the Intricacies of Rubber Mixing", which was published in Rubber India, Volume LXXVI, No.04, April 2024.**
- **Prof. Anal D. Bhatt authored an article titled "The Mechanics and Safety of Rubber Mixing", which was published in Rubber India, Volume LXXVI, No.06, June 2024.**


Knowledge | Rubber Mixing

A Guide:
Navigating the Intricacies of Rubber Mixing

Dive into the intricate world of rubber mixing, where raw polymers undergo a series of transformations to become usable compounds. In this article, Prof. Anal D. Bhattdiscovers the crucial role of mixing in shaping the physical and chemical properties of rubber, and explore the diverse array of compounding ingredients involved. This is the Part One of the series on mixing. Read on


The Mechanics and Safety of Rubber Mixing

Taking cues and moving ahead from the April Edition, Dr Anal D Bhatt delves into the remaining mixing methods alongwith a deep dive into advantages and disadvantes of the methods, its safety and working. A must read

FACULTY ACHIEVEMENTS

- **Dr. Rupande Desai, Prof. Sunil Padhiyar, and Mr. Aakash Limbani were granted a patent for "Ionic Liquid Application as Curative for Unsaturated Rubber" by the Patent Office, Government of India on 29th February 2024. The patent is valid for 20 years.**
- **Prof. Sunil J. Padhiyar conducted an Undergraduate Admission Awareness Program at GEC Rajkot on 14/04/2024, at BVM Anand on 20/04/2024, and at MSU Baroda on 21/04/2024.**
- **Prof. Sunil J. Padhiyar successfully completed the duties assigned by the Election Commission as Zonal Officer and Counting Supervisor in the Lok Sabha Election 2024.**
- **Prof. G. G. Bhatt successfully completed the duties assigned by the Election Commission as Zonal Officer and Counting Supervisor in the Lok Sabha Election 2024.**
- **Prof. R. Y. Modan successfully completed the duties assigned by the Election Commission as an Assistant Zonal Officer in the Lok Sabha Election 2024.**



INTELLECTUAL PROPERTY INDIA

पेटेंट कार्यालय,भारत सरकार
पेटेंट प्रमाण पत्र | The Patent Office, Government Of India
Patent Certificate
(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 517406
आवेदन सं. / Application No. : 201921053193
फाइल करने की तारीख / Date of Filing : 20/12/2019
पेटेंटी / Patentee : 1.Akash Limbani 2.Rupande Desai 3.Sunil Padhiyar

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *IONIC LIQUID APPLICATION AS CURATIVE FOR UNSATURATED RUBBER* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख दिनांक 20 दिसम्बर 2019 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *IONIC LIQUID APPLICATION AS CURATIVE FOR UNSATURATED RUBBER* as disclosed in the above mentioned application for the term of 20 years from the 20th day of December 2019 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 29/02/2024
Date of Grant :

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए शेष, यदि इसे बनाए रखा जाना है, दिसम्बर 2021 के बीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 20th day of December 2021 and on the same day in every year thereafter.



INTELLECTUAL PROPERTY INDIA

पेटेंट कार्यालय,भारत सरकार
पेटेंट प्रमाण पत्र | The Patent Office, Government Of India
Patent Certificate
(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 542179
आवेदन सं. / Application No. : 202321042325
फाइल करने की तारीख / Date of Filing : 24/06/2023
पेटेंटी / Patentee : 1.L. D. COLLEGE OF ENGINEERING 2.Dhruvkumar Rameshbhai Patel 3.Gnanu G. Bhatt 4.Kelvin Mathurbhai Gajera

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *REINFORCED SAWDUST-BASED CRUMB RUBBER* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2023 से बीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *REINFORCED SAWDUST-BASED CRUMB RUBBER* as disclosed in the above mentioned application for the term of 20 years from the 24th day of June 2023 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 19/06/2024
Date of Grant :

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए शेष, यदि इसे बनाए रखा जाना है, जून 2025 के बीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 24th day of June 2025 and on the same day

STUDENTS' ACHIEVEMENTS

- **The PG student, Sukanya Rathod and UG student, Abhishek Sudani received a Gold Medal from Gujarat Technological University.**
- **Jayant Jha, Meet Baria the students of Rubber Technology B.E Sem-4 participated in "Stock Paper Trading" held in Gujarat University**
- **Devansh Raval the students of Rubber Technology B.E. Sem-4 participated in "Blind Football Zonal Tournament" at Goa represented Gujarat as a goal keeper. Won as 1st Price.**
- **Students of BE Rubber Technology attended inauguration of SEMICON India 2024 held at Dholera, Gujarat through Online platform arranged at Rubber Technology department.**



- **Students of BE Rubber Technology Sem 4 & 6 have attended and participated in Asia's biggest Rubber Expo, International Rubber Expo held in Mumbai from 20 to 22nd March, 2024.**
- **Sahil Prajapati, Devansh Raval and Meet Baria, BE Sem-4 Rubber Technology department, were volunteered in departmental Orientation 2024.**
- **Harshit, Student of BE Sem-6 Rubber Technology department, achieved Gaurd of Honour (GOH) to Brigadier N.V. Nath (Group Commander) on 29th May 2024 at 1 Guj CTC Unit, L. D. College of Engineering.**
- **A patent has been granted on 19th June 2024 to the patentee namely Dhruvkumar Rameshbhai Patel, Kelvin Mathurbhai Gajera, Denis Jayantibhai Savaliya, Saumya Shaileshbhai Rathod, Shyam Rameshbhai Chauhan and Prof. Gnanu G. Bhatt for an invention entitled "REINFORCED SAWDUST-BASED CRUMB RUBBER"for the term of 20 years from the 24th day of June 2023 in accordance with the provisions of the Patents Act, 1970.**
- **Maulik Chauhan, pursuing ME, Rubber Technology, attended a Laboratory visit at PDEU, Gandhinagar on 4th June 2024.**

PROFESSIONAL DEVELOPMENT

- **Prof. Sunil Padhiyar attended the Indian Rubber Expo (IRE) 2024, held from 20th to 22nd March 2024 in Mumbai.**

- **Prof. A. D. Bhatt and Prof. B. D. Patel attended an expert lecture on "Cervical Cancer Prevention Awareness" on 05/03/2024 at L. D. College of Engineering.**

- **Dr. R. N. Desai and Prof. A. D. Bhatt attended the Trade Show exhibition at the Vibrant Gujarat Global Summit 2024 on 12/01/2024 at the Helipad Ground, Gandhinagar.**



COMMUNITY ENGAGEMENT & SPORTS

- **Hrishikesh Singh, a student of BE VI Rubber Technology, won Badminton Singles and Doubles at a Badminton Tournament organized by the Rotaract Club on 27th May 2024 at Gujarat Vidyapeeth.**
- **Devansh Raval participated in the Blind Football Zonal Tournament in Goa and represented Gujarat as a goalkeeper, winning the 1st Prize in February 2024.**
- **Hrishikesh Singh participated in the Impulse Badminton Singles Tournament and won the 1st Prize at L. D. College of Engineering in March 2024.**
- **Hrishikesh Singh participated in the Impulse Badminton Men's Doubles Tournament and won the 1st Prize at L. D. College of Engineering.**
- **Tejas More participated in the Impulse Power Lifting Competition and won the 2nd Prize at L. D. College of Engineering.**
- **Pratik Vaniya participated in the Ayodhya Folk Dance Performance.**
- **Pratik Vaniya participated in the West Zone Folk Dance Competition held in Nagpur and won the 1st Prize.**
- **Students of Rubber Technology participated in Kho-Kho, Cricket, Satoliya, and Handball events at Impulse 2024 held at L. D. College of Engineering in March 2024.**









MAJOR RECRUITERS













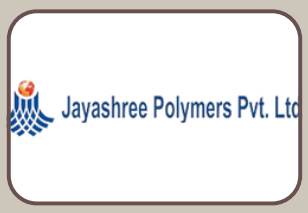












































FACULTIES



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

The newsletter has been thoughtfully designed by Er. Maulik Chauhan.
For further insights and details, feel free to visit bit.ly/MAULIK.



RUBBER TECHNOLOGY DEPARTMENT

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