M. L. V. TEXTILE & ENGINEERING COLLEGE, BHILWARA
(A constituent college of Rajasthan Technical University, Kota)

News Parking

An official E-newsletter of MLVTEC

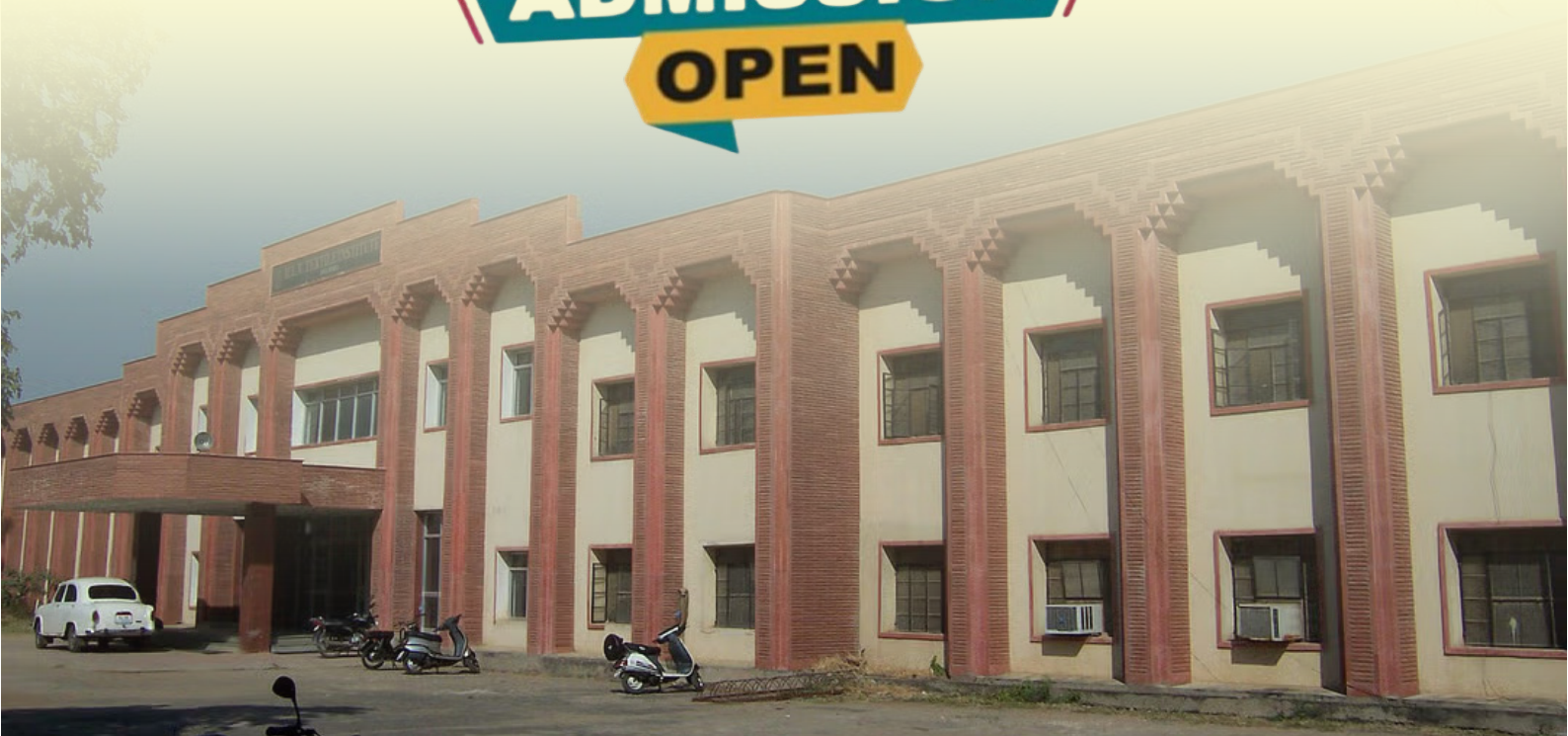
Volume 5, Issue 6
May-June 2025

VIDYA LAKSHMI
Fulfilling Educational Aspirations

B.Tech @MLVTEC

Branchs	Seats	Code
1. Computer Science Engg. IoT	30	200
2. Electronics & Comm. Engg.	30	09
3. Information Technology	60	12
4. Mechanical Engineering	60	13
5. Textile Chemistry (GAS)	20	43
6. Textile Chemistry (SFS)	20	44
7. Textile Technology (GAS)	60	16
8. Textile Technology (SFS)	60	17

2025-26
ADMISSION
OPEN



Principal's Message

Dear Students, Faculty, and Staff,

As we approach the beginning of a new academic session, I take this opportunity to reflect on our journey and share my hopes for the path ahead.

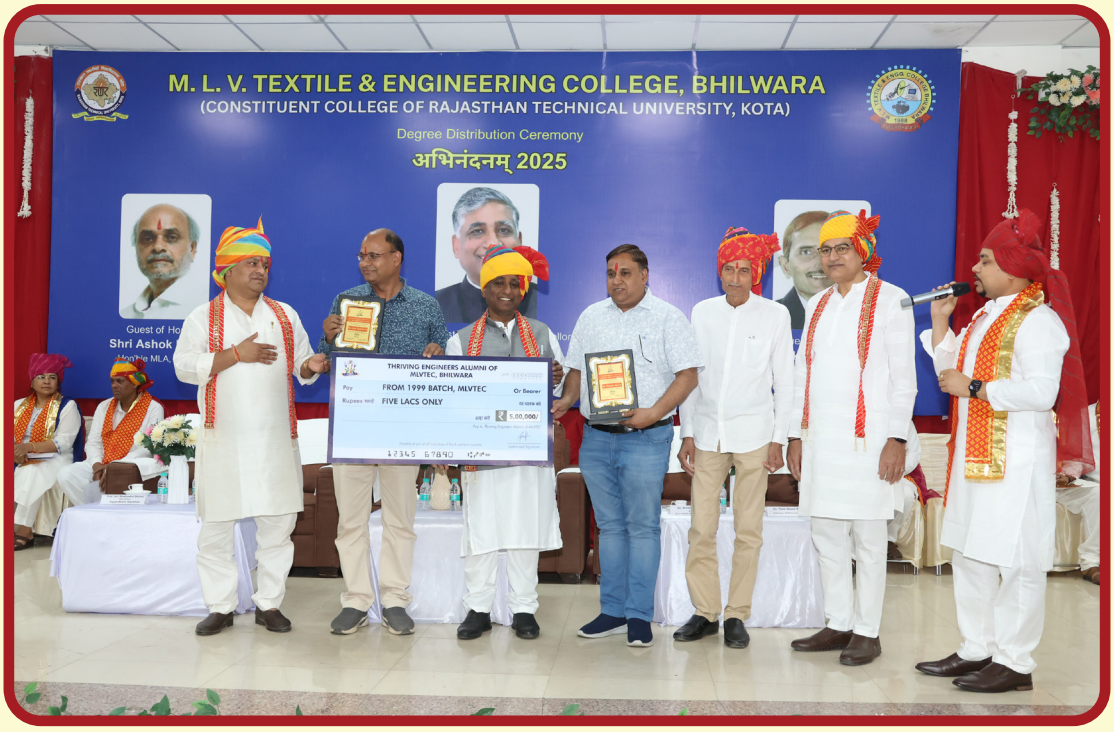
The past months have been filled with commendable achievements—be it in academics, research, innovation, or co-curricular activities. These accomplishments are a testament to the dedication of our faculty, the enthusiasm of our students, and the tireless support of our staff. Each milestone we've reached serves as both a reward for past efforts and a foundation for future growth.

With the new academic year on the horizon, we are presented with yet another opportunity to raise our standards. I encourage our students to set clear goals, stay curious, and embrace challenges with confidence. Let us continue nurturing a culture of critical thinking, creativity, and collaboration. For our faculty and staff, your role in shaping minds and guiding aspirations remains invaluable—and I thank you for your continued commitment.

Let us begin this session with renewed energy, grounded by experience and driven by purpose. Together, I am confident we will reach greater heights and make this year one of meaningful progress.

Wishing you all a productive and inspiring academic year ahead!

Warm regards,
Dr. Arvind Vashishtha



1999 Batch Alumni presenting a cheque for Rupees 5 Lakhs towords scholarship to needy students during degree distribution ceremony ABHINANDANAM 2K25

India's Global Presence and Initiatives: Engineering a Better World through Connectivity and Collaboration

In today's interconnected world, India is asserting its presence not just through rapid internal development but also through impactful global engagement. As a rising economic and technological powerhouse, India's role extends beyond national borders—shaping policies, driving innovation, and fostering cooperation on key international fronts. For engineering students and professionals, this evolution offers insight into how infrastructure, connectivity, and innovation contribute to diplomacy and global progress.

Engineering India's Global Existence

India is increasingly recognized as a thought leader in sustainable development, digital transformation, and infrastructure planning. As a member of platforms like G20, BRICS, the Quad, and the International Solar Alliance, India contributes meaningfully to global governance and technological cooperation.

From launching cost-effective space missions like Chandrayaan-3 to supplying digital frameworks such as Aadhaar and UPI to other countries, India's engineers are helping solve challenges on a planetary scale. Indian companies, startups, and technologists are now globally integrated, and Indian professionals are at the forefront of scientific and digital transformation worldwide.

Connectivity and Trade: Building Bridges Beyond Borders

One of India's key global strategies is enhancing physical and economic connectivity with neighboring and partner countries. Projects such as:

- India-Myanmar-Thailand Trilateral Highway, extending toward Vietnam, aim to establish a robust land link between Southeast Asia and South Asia, improving mobility, tourism, and trade.
- The Chabahar Port project in Iran, developed with Indian assistance, is a strategic maritime initiative that improves access to Central Asia and Afghanistan, bypassing traditional bottlenecks and strengthening India's trade footprint.
- India's active role in IMEC (India-Middle East-Europe Economic Corridor), proposed at the G20 Summit 2023, envisions rail and shipping links between India, the Middle East, and Europe—unlocking faster trade routes and tighter economic ties across continents.

These massive projects are not only about commerce—they symbolize people-to-people contact, cultural exchange, and regional cooperation. They create jobs, promote tourism, and bring diverse populations closer together. Indian engineers, architects, and planners are central to designing and executing these transformative ventures.

Digital and Energy Diplomacy

India's Digital Public Infrastructure (DPI) model, including UPI, CoWIN, and DigiLocker, is now being adapted by several countries under India's Tech Diplomacy initiatives. This digital connectivity strengthens soft power while positioning Indian engineers as global solution providers.

On the energy front, India's leadership in the International Solar Alliance (ISA) and initiatives like One Sun, One World, One Grid (OSOWOG) aim to share sustainable energy infrastructure across borders. This is global engineering in action—designing systems that transcend political boundaries to address climate change and energy access.

What this Means for Future Engineers?

As future engineers and innovators, students in India today are entering a world where engineering is not confined to national boundaries. Whether it's sustainable infrastructure, cross-border railways, global tech systems, or energy grids, Indian engineers are being called upon to design, implement, and lead.

India's expanding global presence through connectivity, trade, and innovation is creating new opportunities. It is up to the next generation of technocrats to carry this momentum forward—by being globally aware, socially responsible, and technically excellent.

Conclusion

India's global initiatives in connectivity, trade, technology, and sustainability reflect a vision of shared progress. These engineering-led efforts not only improve India's global standing but also create a world that is more connected, cooperative, and inclusive. As part of the academic and engineering community, let us embrace this vision, prepare ourselves for global challenges, and contribute meaningfully to the making of Developed India by 2047—an India that connects nations, strengthens and empowers people across the globe.

Salute to Indian Scientists and Engineers: The Force Behind Operation Sindoor

Honoring Indigenous Excellence in the Fight Against Cross-Border Terrorism

India has long stood as a beacon of resilience and innovation in the face of challenges—none greater than the persistent threat of cross-border terrorism. In a historic show of strength, strategy, and self-reliance, Operation Sindoor marked a major milestone in India's security and defense efforts. At the heart of this success lies the unwavering dedication of Indian scientists and engineers, whose indigenous innovations and tireless commitment made this operation not only possible, but decisive.

Operation Sindoor: A Defining Moment

Launched to neutralize strategic threats originating from across the border, Operation Sindoor combined surgical precision with cutting-edge technology. What sets this operation apart from previous missions is the deep-rooted emphasis on indigenous defense capability. For the first time at such scale, India's own defense research, engineering excellence, and manufacturing infrastructure powered the mission from start to finish.

This success is a testament to the nation's journey toward Atmanirbhar Bharat—a self-reliant India—and reflects how homegrown science and technology are now shaping national security narratives.

The Unsung Heroes: Scientists and Engineers

Behind every drone strike, encrypted communication, terrain-mapping software, or precision-guided missile lies the hard work of Indian scientists and engineers. Organizations like DRDO (Defence Research and Development Organization), ISRO, BEL (Bharat Electronics Ltd.), and numerous defense tech startups contributed significantly to the development of:

- High-precision UAVs and surveillance drones, offering real-time intelligence and stealth reconnaissance.
- AI-enabled threat detection systems, reducing human risk and increasing operational efficiency.
- Indigenously built artillery and smart ammunition, ensuring pinpoint targeting with minimal collateral damage.
- Advanced communication systems, secure and encrypted, enabling coordination without interception.

This ecosystem is driven by thousands of engineers—many trained in institutions like IITs, NITs, and state technical universities—proving that Indian talent can match and surpass global standards when given the right support and direction.

Engineering the Future of National Defense

Operation Sindoor showcases a broader truth: India's security no longer depends solely on foreign imports. With decades of investment in research and innovation now bearing fruit, the nation has entered an era where indigenous solutions are not just alternatives—they are first choices.

Whether it's hypersonic missile systems, next-gen radar, or cyber-defense platforms, Indian engineers are playing a direct role in designing, testing, and deploying technologies that defend the nation and deter aggression.

Moreover, collaboration between academia, industry, and defense has accelerated the pace of innovation. Engineering colleges and research labs across India are increasingly contributing to defense-oriented R&D, inspiring a new generation of scientists and technocrats to serve the country through knowledge.

A Nation's Gratitude

The success of Operation Sindoor is a proud moment for every Indian—but it especially belongs to those who worked behind the scenes. While soldiers safeguard our borders on the frontlines, it is our scientists and engineers who build the backbone of that protection.

Their achievements are not just technical—they are patriotic. Their creations are not just tools—they are shields of sovereignty. In saluting them, we acknowledge that the strength of a nation lies as much in its laboratories as on its battlefields.

Conclusion: The Science of Security, the Spirit of India

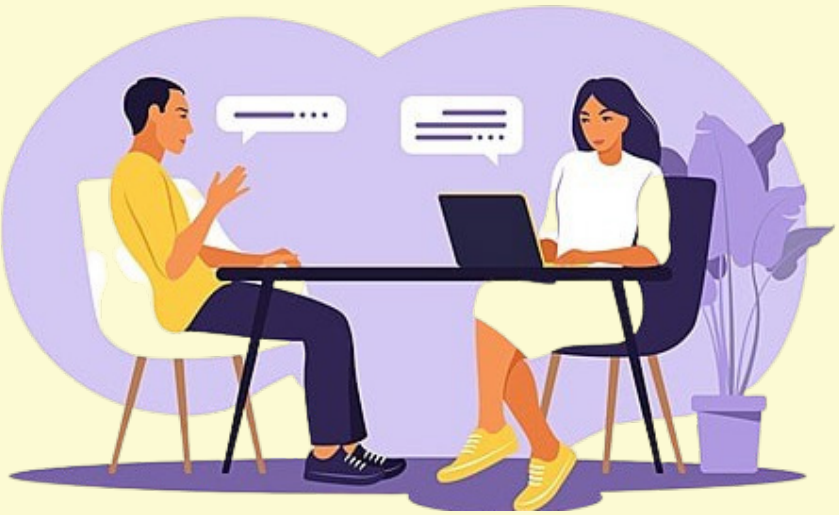
As India marches forward in an uncertain global landscape, the contributions of its scientific and engineering community will continue to define its future. Operation Sindoor is a reminder that national pride, when fused with indigenous innovation, becomes an unstoppable force.

Let us salute the brilliance, courage, and dedication of our Indian scientists and engineers—the silent warriors of modern India. Their work doesn't just protect lives—it protects the nation's future.

Dr. D. N. Vyas
Associate Professor

Summer Traning

S. No.	Name	Branch	Company	Duration	Monthly Stipend in INR
1.	Gunamani Meher	7th TC	Vardhmān	6 Weeks	NIL
2.	Ashmit Rathi				
3.	Ashish Yadav				
4.	Kirti Purohit				
5.	Binod Kumar Saw	7th TT			
6.	Ayush Nayak	7th TT	ADITYA BIRLA GRASIM	6 Weeks	5000 each
7.	Rituraj Boruah				
8.	Sohini Basak				
9.	Vaibhav Jain	7th TT	Cheer Sagar	12 Weeks	5000 each
10.	Ritika Sharma	5th TC			
11.	Kanchan Chouhan				
12.	Nandini	7th TT	Fabrito	10 Weeks	10000 each
13.	Simarjyot Singh				
14.	Nabanita Barik	7th TT	मानकः पथप्रदर्शकः Bureau of Indian Standards	12 Weeks	20000 each
15.	Shivam Panchal				
16.	Pooja Meena				



Placement (May-June)

S. No.	Name	Branch	Company	Annual Package in Lakh INR
1.	Avishek Sur	TT	Reliance Industries Limited	5.5
2.	Kunal Sherawat			
3.	Mayank Kumar Singh			
4.	Utkarsh Tailor			
5.	Viraj Singh Parihar	TT	TESCA Textiles & Seat Components India Pvt. Ltd., Banswara (RJ)	3.60
6.	Swapnil Sonkusare	TT	Balakrishna Textiles, Ahmedabad (GJ)	3.00
7.	Vinay Maheshwari	TT	Sangam India Ltd., Bhilwara (RJ)	2.64
8.	Shalini Devi	TC	Mangalam Arts, Jaipur (RJ)	3.00
9.	Chatrapal Singh	TT		
10.	Harshit Sharma			
11.	Dharmendra Khatri	ME		
12.	Tejendra Rav	TT	Maharaja Shri Umaid Mills, Pali (RJ)	3.00
13.	Bablu Bohra			
14.	Madhav Kansara	TT	LYV Brands Pvt. Ltd., Thane (MH)	4.50
15.	Harshit Tiwari			
16.	Maya Vishnoi	TT	Calvintex, Bhilwara (RJ)	2.40
17.	Aashish Kumar Koli	TT	Baba Spinners, Bhilwara (RJ)	2.40
18.	Kartik Lambat	TC	Vardhman Acrylic Ltd., Jhagadia (GJ)	3.50
19.	Tarun Singh	ME	Supreme Group	4.50
20.	Nandini Tewari	IT	Take2 Technology	3.00
21.	Ansh Tiwari	IT	Chirro	3.50
22.	Chirag Nebani	IT	HiDevs	3.50
23.	Vaibhav Joshi	IT	Mint Lab	8.40
24.	Hitesh Lalwani	CSE	Chirro	3.50
25.	Krish Maheshwari	CSE	Aereo, Bangaluru (KT)	10.50
26.	Libanshi Jain	CSE	GoMilestone	3.50
27.	Anurag Sharma	CSE	Acty System	3.50

Examination (Even Semesters)

Rajasthan Technical University, Kota conducted Main/Back examinations of II and IV Semester B. Tech./M. Tech. Programs offered in the college from May 5 – 10, 2025. According to examination section report the details of students appearing in main exams are as follows;

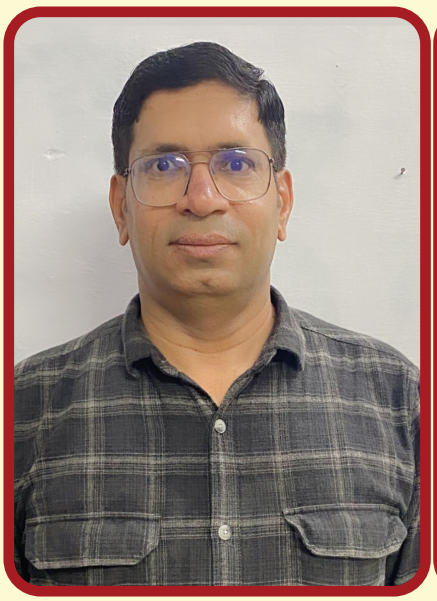
S. No.	Branch of Study	Number of Students Appeared in Main Exams		
		II Semester		IV Semester
		B. Tech.	M. Tech.	B. Tech.
1.	Computer Science Engineering – IoT	32	---	30
2.	Electronics & Communication Engineering	17	---	14
3.	Information Technology	62	---	63
4.	Mechanical Engineering	09	---	16
5.	Textile Chemistry	24	---	26
6.	Textile Technology	51	10	76
	Total	**195**	**10**	**225**

Jitendra Meena Awarded Ph.D. from Rajasthan Technical University

Jitendra Meena, Assistant Professor in the Department of Textile Chemistry, has been awarded the Ph.D. degree by Rajasthan Technical University, Kota. His research was conducted under the supervision of Dr. Harshvardhan Saraswat, Assistant Professor (Textile Engineering).

Meena successfully defended his dissertation, titled "Effective dyeing of indigo by optimization of process parameters and modified treatments", before external examiner Prof. (Dr.) Manoj Tiwari from NIFT Kannur (Kerala) and other officials present on the event. The defense took place in the presence of Dr. Arvind Vashishtha, Principal of the college, along with Dr. V. P. Singh, Associate Professor (Retired), and Prakash Chandra Birla, Associate Professor.

Head of Department Dr. Virendra Kumar Gupta, along with faculty members and staff, extended their congratulations to Dr. Meena on his academic achievement.



MLVTEC Students and Faculty Complete SWAYAM-NPTEL Online Courses

Students and faculty across various departments at MLVTEC have actively engaged in skill development through online courses offered via the SWAYAM portal under NPTEL. This initiative aligns with the institution's commitment to fostering continuous learning and professional growth. Following is the list of students and faculty completing such courses:

S. No.	Name of Student	Sem & Branch	Title of Course
1.	Dr. Meenu Munjal	Faculty	Applied Multivariate Statistical Modeling
2.	Tushar Thakur	M. Tech.	Psychology of Stress, Health and Well-being
3.	Saqib Rashid Dar		
4.	Anshul Jain		
5.	Nayan Jyoti Nath		
6.	Rumana Parween		
7.	Prem Pal		Overview and Perspective of Values
8.	Abhishek Vaishnav	IV TT	Evaluation of Textile Materials
9.	Hemendra Singh		Enhancing Soft Skills and Personality
10.	Anurag Sen	'ME	Product Design and Manufacturing (Silver)
11.	Krishna Kanwar		
12.	Vaibhav Pathak	CSE	Compiler Design
			Discrete Mathematics for CS
13.	Piyush Sharma		Fundamentals of Object Oriented Programming
14.	Aayush Sharma		
15.	Pankaj Kumar		ML for Science and Engineering Applications

GATE 2025 Achievements

A large number of students of the college appeared for the GATE 2025 examination, conducted by the Indian Institute of Technology, Roorkee. While competition was tough, only a few emerged successful. The exam serves as a gateway for higher studies and recruitment in Public Sector Units (PSUs) across India. The Principal Dr. Arvind Vashishtha and Heads of Department Dinesh Kumar Sharma and Nitesh Chouhan congratulated the achievers and extended their best wishes for a bright future.

S. No.	Name of Qualifier	Branch	GATE Rank	Presently
1.	Shubham Choudhary	ME	96 (ME)	Got selected as Assistant Executive Engineer I in ONGC
2.	Lakshay Agarwal	ME	416 (XE) 3756 (ME)	M. Tech. (IIT Delhi)
3.	Libanshi Jain	CSE-IoT	21149 (CS)	Job(GoMilestone)


Shubham Chauhan
2022 Batch


Lakshay Agarwal
2025 Batch


Libanshi Jain
2025 Batch

Academic Achievers 2024 – 25

Rajasthan Technical University, Kota declared the result of 1st and 8th semester of B. Tech. Programs offered in the college in record time. Overall result and Branch-wise toppers are as follows

S. No.	Branch of Study	Result			
		VIII Semester		II Semester	
		Pass / Appeared	Pass %	Pass / Appeared	Pass %
1.	Computer Science Engineering – IoT	31/32	96.87	22/32	68.75
2.	Electronics & Communication Engineering	04/04	100	08/18	44.44
3.	Information Technology	60/61	98.36	30/62	48.38
4.	Mechanical Engineering	12/13	92.33	04/10	40.00
5.	Textile Chemistry	17/22	77.27	07/26	26.92
6.	Textile Technology	86/86	100	26/52	50.00
7.	**Overall**	210/218	96.33	200	46.50

Rank	Name of Student	SGPA
Computer Science Engineering - IoT		
I (08)	Anish Sharma	10
	Anisha Patni	
	Arpit Khandelwal	
	Dev Raj Singh Chouhan	
	Divyanshi Atrey	
	Libanshi Jain	
	Payal Chouhan	
	Rohit Kabra	
II (07)	Anurag Rai	9.81
	Deepak Panchal	
	Divya Tamboli	
	Nandni	
	Neha Jha	
	Priyanka Kumari	
	Sushmita Karki	
III (05)	Akshay Singh Kanawat	9.71
	Anurag Sharma	
	Arpit Pandya	
	Kratika Solanki	
	Krish Maheshwari	
Electronics & Communication Engineering		
I	Harsh Sanjay Jain	9.81
II	Soumendra Singh Chundawat	8.74
III	Devasnhu Chadgal	8.42
Information Technology		
	Aahil Shiekh	10
	Akshita Maheshwari	
	Chirag Nebhani	

I (14)	Chirag Nebhani	10
	Dishita Jain	
	Gungun Jain	
	Ganesh Rana	
	Mahak Babel	
	Raghunandan Singh Rathore	
	Rekha Bairwa	
	Samiksha Jain	
	Shivani	
	Sneha Sen	
	Tiwari Nandini Rakesh	
	Vishakha Jangid	
II (13)	Akshit Bhatnagar	9.81
	Alok Yadav	
	Aman Kumar Bairagi	
	Apoorva Saraswat	
	Charvi Naruka	
	Ganesh Jangir	
	Khushi Samdani	
	Nikita Jain	
	Poonam Chhipa	
	Priyal Jain	
	Rituraj Jha	
	Suhani Sharma	
	Vaibhav Joshi	
III (11)	Aarya Kalawat	9.71
	Abhishek Kumar	
	Ansh Tiwari	
	Arjun Suthar	
	Mohit Kumar Khatik	
	Nidhi Menariya	
	Nikita Roy	
	Prateek Sharma	
	Rajveer Singh Shekhawat	
	Ranu Mali	
	Soel Baig	
Mechanical Engineering		
I	Lakshay Agarwal	9.97
II	Himanshu Vishnoi	9.21
III	Nitesh Vaishnav	9.03
Textile Chemistry		
I	Anwesh Sahu	9.68
II	Ravi Kumar	9.47
III	Vishwajeet Kumar	9.21

Textile Technology		
I	Patri Harshita	10
	Samiksha Tripathi	
II	Gunupati Jagdeesh	9.97
III	Soni Sharma	9.95
	Shivani Deshwal	

Celebration

International Biodiversity Day Celebrated with Symposium and Workshop

Bhilwara, May 22, 2025 — The International Biodiversity Day was celebrated with great enthusiasm at the local college on Thursday, in a joint collaboration with the Biodiversity Board, Jaipur, and the Plant Lovers Society, Bhilwara.

Marking the global occasion, a symposium and workshop were organized to promote awareness about environmental conservation and sustainable development. The event brought together environmentalists, educators, and nature enthusiasts to emphasize the need for harmony between humans and nature.

Sunil Choudhary, President of the Plant Lovers Society, Bhilwara, graced the occasion as Chief Guest. Other notable attendees included Priyanka Somani, Secretary; Vinod Melana of APNA Sansthan; Ashvini Joshi; Mahesh Navhal; and Dr. K. C. Jain.

The central theme of the program revolved around sustainable development through enhanced coordination between human activities and the natural world. Participants engaged in discussions aimed at fostering ecological responsibility and biodiversity preservation.

Innovation

B.Tech Students Develop Eco-Friendly Bricks Using Mining Waste

Bhilwara, May 24, 2025 — Demonstrating the highest level of learning—"creation"—as per Bloom's Revised Taxonomy, final-year B.Tech. (Mechanical Engineering) students from the college have successfully completed an innovative technical project that transforms mining waste into eco-friendly bricks.

Students Lakshay Agarwal, Rishi Raj Ojha, and Nitesh Vaishnav developed the project under the guidance of faculty members Dharmanshu Singh Sodha and Suraj Kumar Gupta. Their creation not only addresses waste management but also offers a sustainable alternative to conventional construction materials.

The eco-friendly bricks manufactured by the team exhibited impressive mechanical and thermal properties, making them suitable for real-world applications. According to test results, the bricks achieved a compressive strength of 48.16 MPa, thermal conductivity of 0.96 W/m·K, and porosity of 5.01%. These metrics surpass those of traditional bricks made from thermal ash, sand, and cement concrete.

Principal Dr. Vashishtha and Head of Department Dinesh Kumar Sharma lauded the students for their innovation and encouraged them to pursue further research and development in sustainable engineering solutions.

MLVTEC Alumni Enhance Campus Facilities with RO Water Coolers

Bhilwara, Rajasthan – In a commendable gesture of support, the Thriving Engineers' Alumni of MLVTEC (TEAM) have donated two Reverse Osmosis (RO) water coolers to their alma mater,. These contributions aim to improve the quality of drinking water for both students and staff.

The first unit, featuring an RO plant with water cooler was donated by Bhanu Prakash Chauhan (2007 Batch ECE), has been installed in the main water hut at a central location on the campus, ensuring easy access for all. The second unit, also equipped with an RO system, has been placed in the department on the first floor. This installation holds special significance as it was donated by Nitin Maloo (2007 Batch ECE) —the first batch of the department. He dedicated the donation in memory of his late grandparents, reflecting a heartfelt tribute to his family's legacy.

Faculty Participation in FDPs

Dr. D. N. Vyas, Associate Professor of Mathematics, actively participated in two online Faculty Development Programs (FDPs). He attended a five-day FDP on "Recent Trends in Science and Engineering" organized by the School of Basic & Applied Sciences, Anand International College of Engineering, Jaipur, held from May 19–23, 2025. Additionally, he took part in a two-day FDP titled "Empowering Research Innovations through Mathematical Modeling" conducted jointly by the Department of Mathematics, Central University of Kashmir, Ganderbal (J&K), and Vishwakarma Institute of Technology, Pune, on June 9–10, 2025.

New Joining

Kuldeep Sunkariya Joins Department of Textile Technology as Lab Assistant

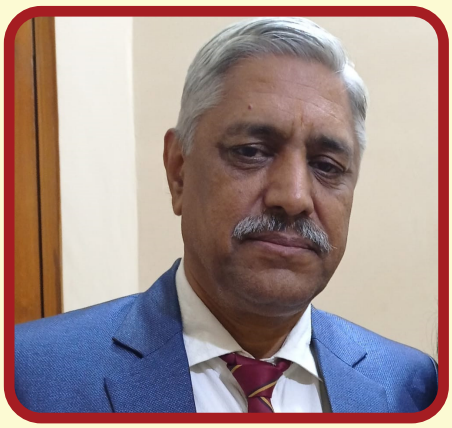
June 6, 2024 — Kuldeep Sunkariya, son of Late Heera Lal Regar, a former bus driver of the college, has joined the Department of Textile Technology as a Lab Assistant in the Spinning Lab.

His appointment was made under the compensatory employment scheme for dependents of deceased employees, following approval from the competent authority. Kuldeep is an alumnus of the college, having completed his B.Tech. in Textile Technology from the same institution.

The college welcomes Kuldeep to the team and extends best wishes for his new role.

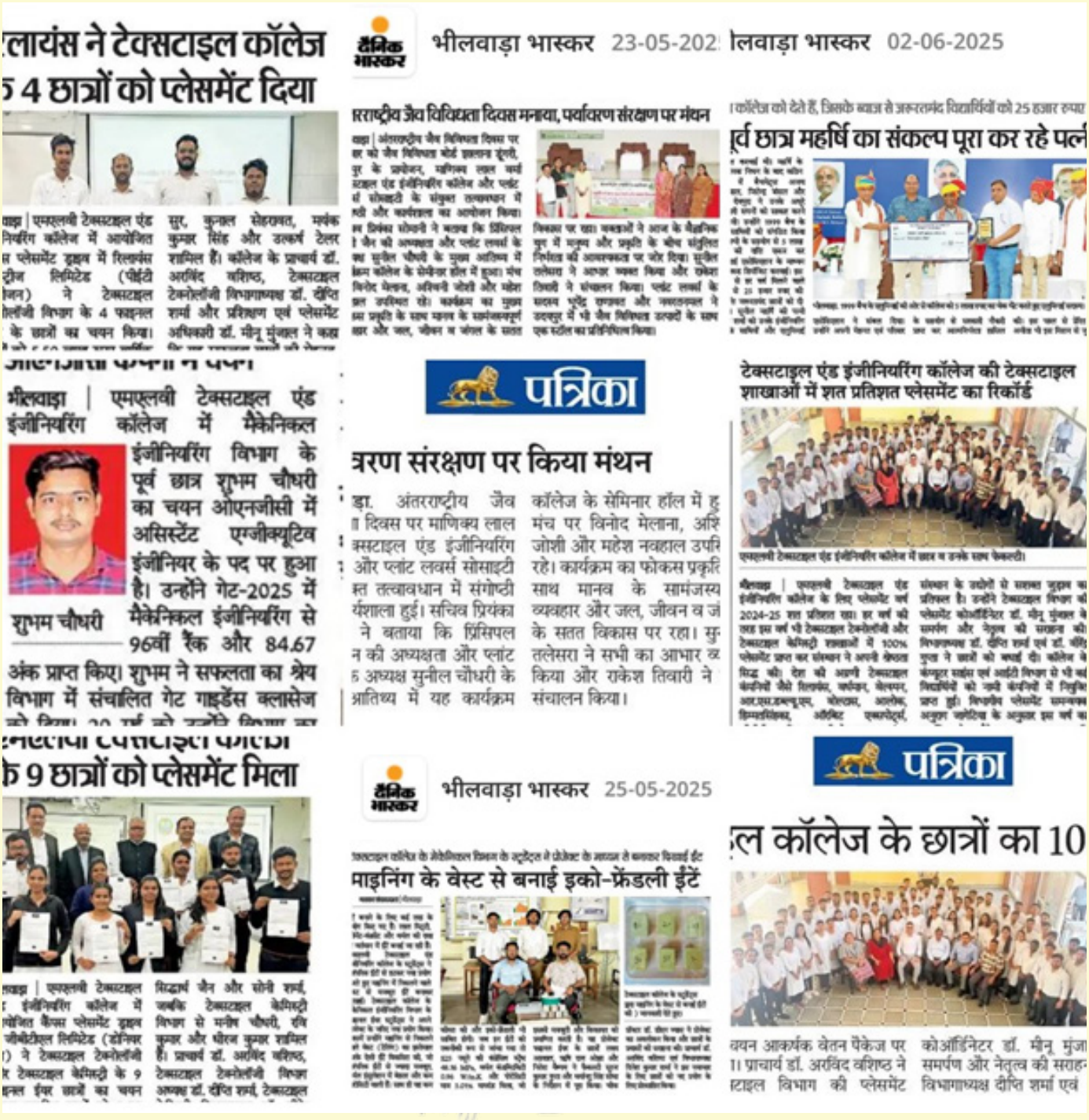
Retirement

Laxmi Narayan Somani, Accounts Officer, retired on 30th June 2025 after completing 37 years of dedicated service in the Finance Department, Government of Rajasthan. He had been on deputation to this College since July 2, 2010. Initially appointed as a Junior Accountant, he was later promoted to Assistant Accounts Officer-I and subsequently to Accounts Officer. For a period of four and a half years, he served as Sub-Treasury Officer at Gangapur (Bhilwara), while simultaneously holding additional charge at this College. Somani holds the distinction of being the longest-serving accounts personnel in the College's history. His significant contribution includes the successful automation of the College's accounting system, for which he deserves special recognition. On the occasion of his superannuation, the College



community bid him a warm farewell and extended heartfelt wishes for a healthy and fulfilling second innings. May the Almighty bless him with happiness, peace, and prosperity in the years to come.

MLVTEC in Media



लायंस ने टेक्सटाइल कॉलेज
5 4 छात्रों को प्लेसमेंट दिया

दैनिक भास्कर भीलवाड़ा भास्कर 23-05-202 लवाड़ा भास्कर 02-06-2025

राष्ट्रीय जैव विविधता दिवस मनाया, पर्यावरण संरक्षण पर मंथन

र्व छात्र महर्षि का संकल्प पूरा कर रहे पर्ल

पत्रिका

भीलवाड़ा | एमएलवी टेक्सटाइल एंड इंजीनियरिंग कॉलेज में मैकेनिकल इंजीनियरिंग विभाग के पूर्व छात्र शुभम चौधरी का चयन ओएनजीसी में असिस्टेंट एग्जीक्यूटिव इंजीनियर के पद पर हुआ है। उन्होंने गेट-2025 में मैकेनिकल इंजीनियरिंग से 96वीं रैंक और 84.67 अंक प्राप्त किए। शुभम ने सफलता का श्रेय विभाग में संचालित गेट गाइडेंस क्लासेज

शुभम चौधरी

वरण संरक्षण पर किया मंथन

डा. अंतरराष्ट्रीय जैव ा दिवस पर माणिक्य लाल क्सटाइल एंड इंजीनियरिंग और प्लांट लवर्स सोसाइटी त तत्वावधान में संगोष्ठी र्यशाला हुई। सचिव प्रियंका ने बताया कि प्रिंसिपल न की अध्यक्षता और प्लांट ऊ अध्यक्ष सुनील चौधरी के ातिथ्य में यह कार्यक्रम कॉलेज के सेमिनार हॉल में हु मंच पर विनोद मेलाना, अरि जोशी और महेश नवहाल उपरि रहे। कार्यक्रम का फोकस प्रकृति साथ मानव के सामंजस्य व्यवहार और जल, जीवन व ज के सततत विकास पर रहा। सु तलेसरा ने सभी का आभार व किया और राकेश तिवारी ने संचालन किया।

टेक्सटाइल एंड इंजीनियरिंग कॉलेज की टेक्सटाइल शाखाओं में शत प्रतिशत प्लेसमेंट का रिकॉर्ड

के 9 छात्रों को प्लेसमेंट मिला

दैनिक भास्कर भीलवाड़ा भास्कर 25-05-2025

माइनिंग के वेस्ट से बनाई इको-फ्रेंडली ईंटें

पत्रिका

ल कॉलेज के छात्रों का 10

Obituary

College Mourns the Passing of Former Employee **Paras Ram Rao**

May 6, 2025 — The college community is deeply saddened by the passing of Paras Ram Rao, a former Class IV employee, who left for his heavenly abode on May 6, 2025.

Paras Ram Rao served the institution with dedication and sincerity throughout his tenure, retiring just a year ago. He leaves behind fond memories of his time at the college, remembered warmly by colleagues and staff.

The college family extends heartfelt condolences and pays tribute to the departed soul, honoring his service and commitment to the institution.

Impact of Small Capsules of Study Material with Questions Based on Revised Bloom's Taxonomy: An Innovative Approach

In the ever-evolving landscape of higher education, particularly in the demanding realm of engineering, educators face the constant challenge of engaging students, enhancing learning outcomes, and preparing them for real-world applications. This transformation aligns with the global objective of Sustainable Development Goal 4 (SDG 4), which seeks to "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all." The need for quality and accessibility in education is echoed nationally in the National Education Policy (NEP) 2020, which emphasizes flexible curricula, learner-centric pedagogy, and outcome-based education. Against this backdrop, innovative approaches such as small capsules of study material, supported by Revised Bloom's Taxonomy-based questioning, are emerging as effective tools to make engineering education more meaningful, inclusive, and skill-oriented.

When paired with questions aligned to the Revised Bloom's Taxonomy, these learning capsules become powerful tools—not just for recall, but for critical thinking, analysis, and innovation. Let us explore how this approach is reshaping engineering education.

What Are Small Capsules of Study Material?

Small capsules refer to short, topic-focused learning modules that are broken down from larger course content. Each capsule typically addresses a single concept or learning objective and can take the form of:

- Short video lectures (5–10 minutes)
- Concise text notes or summaries
- Diagrams, flowcharts, or infographics
- Interactive quizzes or simulations
- Flashcards and formula banks

The idea is to create digestible units of content that are easier to absorb and revise, catering especially to the digital-native generation of learners who prefer quick, visually engaging material over traditional lectures.

Why are these capsules needed in Engineering Education?

Engineering curricula are vast, covering a wide range of complex concepts that require not only theoretical understanding but also practical application. Traditional teaching methods often struggle to cater to diverse learning styles and varying levels of student preparedness. Small capsules address several of these challenges:

1. Cognitive Load Management

Breaking complex topics into smaller units helps reduce mental overload. Students are more likely to retain and understand concepts when they're presented in bite-sized formats.

2. Self-Paced Learning

Capsules allow students to learn at their own pace. Those who need more time can revisit materials, while advanced learners can accelerate their progress.

3. Active Engagement

Incorporating visuals, interactivity, and real-world examples within capsules increases attention and motivation, helping students stay engaged.

4. Effective Revision Tools

These capsules serve as ready-to-use revision aids, especially during exams, internships, or project work, allowing for quick recall of core principles.

The Role of Revised Bloom's Taxonomy

The Revised Bloom's Taxonomy, introduced in 2001, provides a structured framework for developing learning outcomes and assessments. It moves beyond rote memorization and emphasizes higher-order thinking skills. The six hierarchical levels are:

1. Remember – Recalling facts and concepts
2. Understand – Explaining ideas or concepts
3. Apply – Using information in new situations
4. Analyze – Drawing connections among ideas
5. Evaluate – Justifying decisions or viewpoints
6. Create – Producing new or original work

When capsules are paired with questions designed around these levels, the learning process becomes deeper and more comprehensive. This helps students not only understand what to learn, but also how to apply it.

Example: Engineering Mechanics – Force Systems Capsule

- Remember: List the different types of force systems.
- Understand: Explain the effect of a couple in a rigid body.
- Apply: Solve a problem involving the resolution of a force into components.
- Analyze: Compare the effect of distributed and concentrated loads on a beam.
- Evaluate: Assess which force analysis method (graphical or analytical) is more efficient in a given scenario.
- Create: Design a mechanical structure that re-

This structured questioning allows educators to move from foundational knowledge to creativity, ensuring vertical development of cognitive abilities among students.

Benefits of the Combined Approach

Integrating study capsules with taxonomy-based questioning leads to:

- Better Curriculum Mapping: Faculty can align outcomes, assessments, and instruction more accurately.
- Improved Student Performance: Students gain conceptual clarity and are better prepared for exams, internships, and interviews.
- Enhanced Outcome-Based Education (OBE): This method aligns perfectly with OBE frameworks now mandated by regulatory bodies like NBA and AICTE.
- Personalized Learning: Students can focus on capsules where they are weak, ensuring targeted improvement.

Implementation Challenges

Despite its many advantages, the transition to this model is not without hurdles:

- Faculty Preparation and Training

Creating effective capsules and questions requires faculty to be trained in instructional design, digital tools, and Bloom's Taxonomy.

- Time and Resource Constraints

Developing high-quality capsules demands time, effort, and possibly collaboration across departments.

- Technological Infrastructure

Digital platforms, LMS (Learning Management Systems), and access to devices must be ensured for smooth delivery.

- Student Readiness

Students must also be oriented to use these materials meaningfully, beyond passive consumption.

Recommendations for Institutions

To successfully implement this approach:

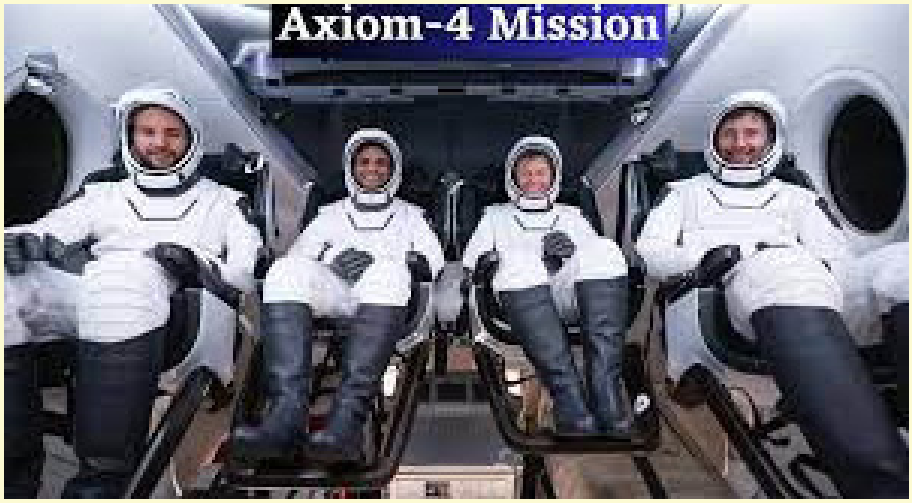
- Establish a content creation task force within each department.
- Conduct regular faculty development workshops on Bloom's Taxonomy and digital content creation.
- Use collaborative tools and shared repositories so faculty can co-create and share capsules.
- Collect feedback from students to refine and improve content delivery.
- Adopt blended learning models, where in-person teaching is supplemented by capsule-based e-learning.

Conclusion

In a world that demands agility, innovation, and problem-solving skills, engineering education must evolve. Small capsules of study material, when combined with the structured, cognitive framework of Revised Bloom's Taxonomy, represent a forward-looking strategy that empowers students to not only learn but think, apply, and create.

This is more than a teaching technique—it is a pedagogical transformation. If adopted wholeheartedly, it can make learning more student-centric, effective, and aligned with the aspirations of a 21st-century engineer.

— D. N. Vyas, Associate Professor
M. L. V. Textile & Engineering College



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Editorial Team