

JUNE, 2025



Issue - 1

# Tech Times

## ECB NEWSLETTER



### Welcome to the Latest Edition

This publication serves as a vibrant reflection of our institution's dynamic spirit, showcasing the remarkable achievements, innovations, and contributions of our students, faculty, and staff. From cutting-edge research and academic excellence to exciting campus events and community initiatives, this newsletter captures the essence of our collective journey toward shaping the future of engineering and technology in last one year. Join us as we celebrate our shared successes, highlight inspiring stories, and look forward to new milestones in our pursuit of knowledge and innovation.

**ENGINEERING COLLEGE BIKANER**  
(A Constituent College of Bikaner Technical University, Bikaner)

### HIGHLIGHTS

- **Academic Excellence:** Students achievements.
- **Research Breakthroughs:** Innovative funded projects in AI, IT, CS and other branches of B.Tech.
- **Campus Events:** Tech fest, Seminars, Workshops, Faculty Development Programs, Conferences, Sports and cultural programs enthralled participants.
- **Faculty Achievements and enrichment programs:** Awards for pioneering research publications.

## Message from Shri Arjun Ram Meghwal, Hon'ble Union Minister of Law and Justice, Government of India

I am delighted to extend my warm greetings and best wishes to the students, faculty members, and staff of Engineering College Bikaner (ECB) on the occasion of the publication of college newsletter.

Engineering and technology are the cornerstones of development, and it is heartening to see young minds engaging with innovation, research, and societal betterment. I commend the efforts of the college in nurturing a culture of academic excellence and holistic development.



The publication of a newsletter is a wonderful initiative to reflect upon the achievements, ideas, and aspirations of the academic community. It serves not only as a record of your activities but also as a source of inspiration for future endeavors.

I encourage all students to remain committed to the values of integrity, discipline, and service. May your knowledge and skills contribute meaningfully to the progress of our country and to the ideals enshrined in our constitution.

Wishing you all continued success in your academic and professional journeys.

**Jai Hind!**

**Arjun Ram Meghwal**  
Union Minister of Law and Justice (Independent Charge)  
Union State Minister of Parliament Affairs  
Government of India

## A Message from Hon'ble Deputy Chief Minister and Technical Education Minister of Rajasthan

It gives me immense pleasure to extend my warm greetings to the students, faculty, and administration of Engineering College Bikaner through this newsletter.



Engineering education plays a pivotal role in shaping the future of our nation. Institutions like Engineering College Bikaner are not only nurturing young minds with technical knowledge but also instilling in them the values of innovation, responsibility, and service to society. I am proud to acknowledge the strides this institution has made in academic excellence, research, and industry collaboration.

The Government of Rajasthan is fully committed to strengthening the technical education infrastructure in the state. Last year, we have approved the up-gradation of Engineering College Bikaner as Rajasthan Institute of Technology (RIT) to address the growing needs of quality education and ensure that our students receive the best possible guidance. I also take this opportunity to commend the efforts of the faculty and staff who continue to inspire and guide the next generation of engineers. Your dedication is the backbone of our academic mission.

Wishing you all great success in your academic and professional endeavors.

**Dr. Prem Chand Bairwa**  
Hon'ble Deputy Chief Minister  
Minister of Higher and Technical Education,  
Minister of Transport & Road Safety and Aayush Minister,  
Government of Rajasthan



# ENGINEERING COLLEGE BIKANER

# NEWSLETTER



Issue 001

ECB Newsletter June-2025/ Vol. 01

## A Message from Hon'ble Vice Chancellor

Dear Students, Faculty Members, and Esteemed Stakeholders,

It gives me great pride and pleasure to share the inaugural edition of Engineering College Bikaner's newsletter. This initiative reflects our collective commitment to fostering a vibrant academic community, promoting transparency, and celebrating the achievements and endeavors of our students, faculty, and staff.

As we embark on this journey, I encourage everyone to actively contribute and share inspiring stories, innovative ideas, and accomplishments. Let this newsletter serve as a platform to strengthen our bonds, showcase our excellence, and inspire continued growth and collaboration.

Together, we can build a brighter future for the college and uphold the values of education, integrity, and excellence that define us. Additionally, I would like to extend my heartfelt congratulations and best wishes to the editorial team for their hard work and dedication in bringing out this edition. Efforts of editorial team in sharing news, achievements, and stories that reflect the college community are truly appreciated.

Wishing you all success and looking forward to many more editions.

Warm regards,



**Prof. Akhil Ranjan Garg**  
**Vice-Chancellor**  
**Bikaner Technical University**

## A Message from Principal

It is a moment of immense pride and satisfaction to present first edition of our college newsletter "Tech Times". The place of Engineering College Bikaner is remarkably outstanding in technical education of Rajasthan with great number of admissions and reflection of growth, trust and recognition of our institution's academic excellence can be defined with budget declaration of its up gradation as Rajasthan Institute of Technology by Government of Rajasthan

This newsletter offers a glimpse into the dynamic academic, research, and extracurricular achievements of our talented students and dedicated faculty. I congratulate the editorial team for their efforts in compiling this edition.

Let us continue to move forward together—towards excellence, innovation, and nation building.



**Dr. Om Prakash Jakhar**  
**Principal**  
**Engineering College Bikaner**

# ENGINEERING COLLEGE BIKANER

# NEWSLETTER

ECB Newsletter June-2025

Vol. 01

Issue - 1

## MESSAGE FROM CHIEF EDITOR

It is with great pleasure that we present to you the First edition of our college newsletter “**Tech Times**”, portraying vibrant academic and extracurricular life at Engineering College Bikaner. This newsletter highlights the achievements, innovations, and events that continue to shape our college community. We hope this newsletter not only informs but also inspires every reader to stay curious, engaged, and connected.



**Dr. Naveen Sharma, Assistant Professor, Management Department**

## MESSAGE FROM MANAGING EDITOR

This newsletter is the result of the collective effort of students, faculty, and administration. I would like to thank all contributors, faculty coordinators, and my fellow editorial members for their hard work and commitment. We hope you enjoy reading this issue as much as we enjoyed creating it. We welcome your feedback and look forward to continued engagement in the issues to come.



**Dr. Indu Bhuria Meghwal, Assistant Professor, ECE Department**

## MESSAGE FROM DEPUTY EDITOR

We present “**Tech Times**” in which each event represents the dedication and talent of our ECB community, and it is our hope that this newsletter serves as both a record of achievement and a source of inspiration. I extend my sincere gratitude to the contributors, faculty members, and editorial team who worked tirelessly to bring first edition to life. Your support and enthusiasm are the driving forces behind this initiative.



We invite you to read, reflect, and celebrate the accomplishments and potential of Engineering College Bikaner.

**Dr. Dharmendra Singh, Assistant Professor, Mechanical Department**

## In This Edition

1. ECB-Intro
2. Institute Innovation Council
3. Faculty Sponsorship Projects
4. Sponsored Research Projects achieved by students
5. Ph.D. Thesis Awarded
6. Campus Chronicles- Seminars, Activities, Workshops, FDPs, Conferences
7. Sports Event- Aahvaan
8. Cultural Event- Navrang
9. Institute's Placements
10. Faculty Achievements
11. News Clips
12. Alumni Glory

# ECB HIGHLIGHTS

## A Legacy of Excellence



Issue 001

ECB Newsletter June-2025/ Vol. 01

Established in 1999, Engineering College Bikaner (ECB) is a premier public technical institution located in the historic city of Bikaner, Rajasthan. A constituent college of Bikaner Technical University and approved by the All India Council for Technical Education (AICTE), ECB has consistently been at the forefront of engineering education in the region. Recently Govt. of Rajasthan approved the up gradation of Engineering College Bikaner as Rajasthan Institute of Technology (RIT). The college's



sprawling campus, spread over 337 bighas (approximately 150 acres) in the Karni Industrial Area on Pugal Road, offers a conducive environment for academic pursuits. With state-of-the-art infrastructure, modern laboratories, and a dedicated faculty, ECB ensures that students receive a comprehensive education that blends theoretical knowledge with practical application. From traditional engineering disciplines to emerging fields like Artificial Intelligence and Data Science, the college provides students with the tools and knowledge to excel in their chosen careers.

### INFRASTRUCTURE AND FACILITIES

Spanning over 150 acres, the ECB campus is equipped with state-of-the-art facilities to foster an environment conducive to learning and innovation. Key amenities include:

- **Modern Laboratories:** Equipped with advanced instruments to support practical learning.
- **Computer Labs:** High-speed internet access and the latest software for research and development.
- **Library:** A vast collection of books, journals, and digital resources.
- **Hostels:** Separate accommodations for boys and girls with all essential amenities.
- **Sports:** Facilities for various indoor and outdoor games promoting physical fitness.
- **Medical Center:** Providing healthcare services to ensure the well-being of students.
- **Gymnasium:** Equipped with modern fitness equipment.

### CAMPUS LIFE AND EXTRACURRICULAR ACTIVITIES

ECB emphasizes holistic development, offering students opportunities to engage in various extracurricular activities:

- **SRIJAN:** The annual cultural fest showcasing talents in music, dance, drama, and more.
- **AAHVAAN:** The sports fest promoting teamwork and physical fitness.
- **Technical Workshops and Seminars:** Organized regularly to keep students abreast of industry trends.
- **Clubs and Societies:** Catering to diverse interests like robotics, coding, literature, and entrepreneurship.

# ECB HIGHLIGHTS:

## A Legacy of Excellence



Issue 001

ECB Newsletter June-2025/ Vol. 01

### Academic Programs and Specializations

ECB offers a diverse range of undergraduate and postgraduate programs designed to cater to the evolving demands of the engineering and technology sectors.

#### UNDERGRADUATE PROGRAMS:

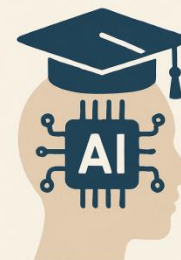
- Computer Science & Engineering (CSE): 120 seats
- Mechanical Engineering (ME): 90 seats
- Electrical Engineering (EE): 90 seats
- Electronics & Communication Engineering (ECE): 60 seats
- Information Technology (IT): 60 seats
- Electronics Instrumentation & Control Engineering (EIC): 30 seats
- Artificial Intelligence & Data Science (AI & DS): 90 seats
- Civil Engineering (CE) : 60 Seats
- Bachelor of Business Administration: 60 Seats
- Bachelor of Computer Application: 60 Seats

#### POSTGRADUATE PROGRAMS:

- MBA (Master of Business Administration): 2 years
- MCA (Master of Computer Applications): 3 years
- M.Tech in Power Systems: 2 years
- M.Tech in Software Engineering: 2 years
- M.Tech in Thermal Engineering: 2 years
- M.Sc in Computer Science: 2 years
- M.Sc in Chemistry: 2 years
- M.Sc in Mathematics: 2 years
- M.Sc in Physics: 2 years

### Contact Information

- Website: [www.ecb.ac.in](http://www.ecb.ac.in)
- Address: Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner - 334004, Rajasthan, India
- Phone: +91-9460038214
- Email: [principal@ecb.ac.in](mailto:principal@ecb.ac.in)



#### ACADEMIC PROGRAM AND SPECIALIZATION

#### Ph.D. PROGRAMS:

- Management
- Computer Science and Engineering
- Mechanical Engineering
- Electrical Engineering
- MCA

### Admission Process

Admissions to the B.Tech programs are conducted through the Rajasthan Engineering Admission Process (REAP), which considers JEE Main scores and/or class 12 marks. M.Tech, admissions are based on the Graduate Aptitude Test in Engineering (GATE) scores.



The Institution's Innovation Council (IIC) at Engineering College Bikaner was established in 2018 with the vision to foster a vibrant innovation and entrepreneurship



ecosystem within the campus. Since its inception, the IIC has actively aligned its initiatives with the recommendations of the Ministry of Education, Government of India.

To nurture creativity and entrepreneurial spirit among students and faculty members, the cell has organized a wide range of activities including workshops, training sessions, seminars, and innovation challenges on diverse topics. These efforts aim to equip participants with the skills and mindset needed for innovation and start-up development.

In a significant step towards practical implementation and product development, the college has also established a Prototype Development and Electronic Design & Fabrication Center. This facility provides students with hands-on experience in building and testing innovative solutions, further strengthening the institute's commitment to foster innovation and entrepreneurship.

## Milestones and Achievements of Institution's Innovation Council (IIC)

Since its inception, the IIC has been dedicated to foster a strong culture of innovation and entrepreneurship. Over the years, the college has made notable strides in building an ecosystem that nurtures creativity, startup initiatives, and industry readiness. The institute has got following recognitions;

- Awarded with **4-Star Rating** by the Ministry of Education's Innovation Cell (MIC) during session 2020-21
- Continued its excellence in innovation-driven activities by securing another **4-Star Rating** from MIC during session 2021-22
- Participated in the prestigious **ARIIA (Atal Ranking of Institutions on Innovation Achievements)** and ranked among the **Top 50 Institutions nationwide** during session 2022-23. ECB was the only institute of

### HIGHLIGHTS

- Established in 2018, aligned with MoE, Govt. of India
- Also established a Prototype Development and Electronic Design & Fabrication Center.
- Awarded with 4-Star Rating by the Ministry of Education's Innovation Cell (MIC) during session 2020-21
- Continued its excellence in innovation-driven activities by securing another 4-Star Rating from MIC during session 2021-22
- Ranked among the Top 50 Institutions nationwide during session 2022-23
- Selected as a Mentor Institution under the MIC mentorship program during session 2023-24
- Also, recognized with a 3.5-Star Rating by MIC for its continued efforts in innovation and entrepreneurship.

### CORE TEAM

President: Dr. Rahul Raj Choudhary

Vice President: Dr. Manoj Kuri

Convenor: Dr. Indu Bhuria



Rajasthan to achieve this ranking of National Institutional Ranking Framework. Also, recognized with a **3.5-Star Rating** by MIC for its continued efforts in innovation and entrepreneurship.

- Selected as a **Mentor Institution** under the MIC mentorship program to successfully train and support five mentee institutions in building their innovation ecosystems during session 2023-24.

### RESOURCE STRENGTH

Total No. of IIC Members:	165
External members:	6
Student members:	101
Faculty members:	58
Total No. of IAs:	51
Basic Level:	47
Advanced Level :	39
Total No. of faculty Mentors	10
Pre-Incubation Units, If any	01
Incubation Units, If any	02



## Facilities, Infrastructure engaged in promotion of Innovation and Entrepreneurship in the campus

### PRE-INCUBATION & INCUBATION

- Name of unit: Technology Business Incubation Center(TBIC)
- Coordinator: Dr. Manoj Kuri
- Co-coordinator: Mr. Rajendra Singh Shekhawat
- Incubation and Pre-incubation both

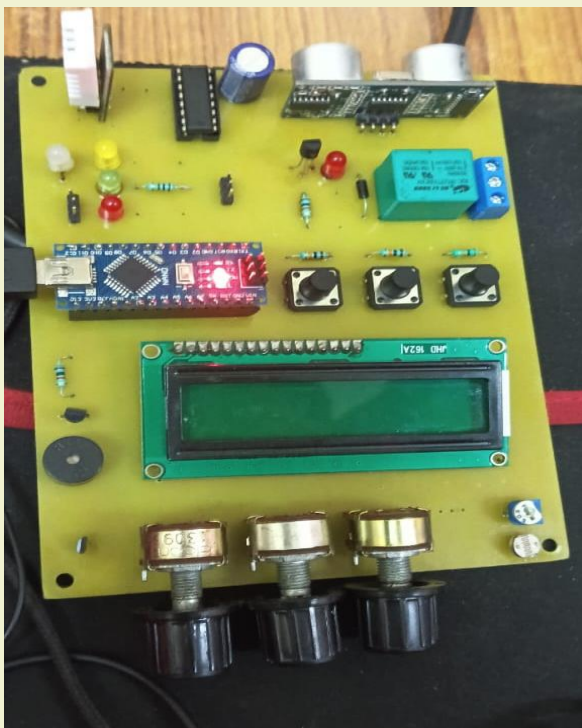
S. No.	Name of project	Sponsoring Agency	Amount
1.	Business Incubator	Govt. of Rajasthan	20 lakhs
2.	Incubation accelerator	DST	10 lakhs
3.	Livelihood Business Incubator	MSME GOI	50 Lakhs

### CRICKET BOWLING MACHINE

A Cricket bowling machine's driving circuit is built by the engineering students at Engineering College Bikaner, which added the functionality like precision control, ability to swing and spin the ball, along with coach mode which allows full functionality to the user. The best part is that of the above functionality can be controlled via an APP. Specifically built for this machine, interacting with each other through Bluetooth.

This machine is built for the Industrial partner "Sports AMI" which is Faridabad based company which specialized in sports training equipment.

The control board was designed from scratch, after 6 months of trial and error and research the board was complete, and was field tested at Sport AMI facility at Faridabad. The production ready prototyping was done in-house at Innovation & Product Design Lab, along with extensive lab testing



### ECB SMART ROBO TRAINING KIT

ECB Smart Robo Training Kit is an initiative by Engineering College Bikaner to make the development and learning curve of robotics easy for the students in secondary schools.

It is equipped with the basic sensor, input devices and actuator, and designed in such a way that all the functionalities of the robot can be understood by anyone. This helps to develop the innovation and creativity among students.

It also comes with its software libraries of Python and C language, which makes the development of the board much more easy.

Even with a student with no prior knowledge of programming can write the command in sequence to program the board. So, the students focus more on the working rather than getting the code right.

Several exemplifying projects are also provided along with the software, which decreased the development time of the project



# FACULTY SPONSORSHIP PROJECTS

## INFORMATION SECURITY EDUCATION AND AWARENESS (ISEA) PROJECT PHASE-III

Issue 001

ECB Newsletter June-2025/ Vol. 01



### Information Security Education and Awareness (ISEA) Project Phase-III

Bikaner Technical University (BTU), through its Engineering College Bikaner (ECB) campus, has been selected as one of the ten state government universities to participate in the **Information Security Education and Awareness (ISEA) Project Phase-III**, initiated by the Ministry of Electronics and Information Technology (MeitY), Government of India. The project is aligned with the thematic area **"Security in Futuristic Technologies"**, focusing on domains such as Artificial Intelligence (AI), Machine Learning (ML), Augmented Reality (AR), and Virtual Reality (VR).

With a total grant of approximately **₹200 lakh** disbursed over five years starting from FY 2024–25, the project aims to foster cybersecurity education, hands-on research, and skill development in emerging tech fields.

**Junior Research Fellows & Project Assistant:** Gautam, Lokesh Borawar, Puja Mandal

**DURING THE YEAR 2024–25**, two major events were organized under the ISEA Phase-III initiative at Engineering College Bikaner. The first was a Faculty Development Program (FDP) titled *Cyber-Physical Systems Security in the Era of AI*, held from 24th to 28th February 2025 at the Training & Placement building, ECB. This program saw participation from 79 individuals, including 54 offline and 25 online attendees from various regions of India. The primary objective was to provide

#### HIGHLIGHTS

**₹200 lakh Grant**

**SELECTED** as one of the ten state government universities

Project is **INITIATED** by the Ministry of Electronics and Information Technology (MeitY), **GOVERNMENT OF INDIA**

**CONDUCTED** one week FDP on Cyber-Physical Systems Security in the Era of AI and Bootcamp on AI, Blockchain and CPS Security

This project was signed in the pre-summit of Rising Rajasthan held at Jaipur

#### CORE TEAM @ ECB, BTU

Chief Investigator:

**MR. RAJ KUMAR CHOUDHARY**

Assistant Professor

Department of Information Technology

Co-Chief Investigators:

**DR. AJAY CHAUDHARY**

Assistant Professor, IT

**DR. RAHUL RAJ CHOUDHARY**

Associate Professor, EI&CE



# FACULTY SPONSORSHIP PROJECTS

## INFORMATION SECURITY EDUCATION AND AWARENESS (ISEA) PROJECT PHASE-III

Issue 001

ECB Newsletter June-2025/ Vol. 01



faculty members with in-depth knowledge of artificial intelligence and cybersecurity in the context of cyber-physical systems. Experts from IIT Jammu, Jodhpur, and Bombay led sessions covering machine learning fundamentals, adversarial attacks, ML model security, GANs, SoC vulnerabilities, hardware trojans, and power analysis attacks. The participants were also engaged in hands-on training, such as ML-based optimization and hardware trojan detection techniques. The program successfully enhanced the theoretical understanding and practical skills in AI-driven security and CPS threat defense.

**THE SECOND EVENT WAS** a Bootcamp on *AI, Blockchain & CPS Security*, conducted from 18th to 20th March 2025 at the same venue. It attracted 85 participants and featured expert speakers from IIT Bombay and NIT Warangal. The bootcamp aimed to provide students with hands-on learning in cybersecurity challenges related to AI, blockchain, and cyber-physical systems. The key topics included were blockchain security, malware analysis, adversarial ML attacks, and real-world vulnerabilities in IoT systems. Practical sessions using tools like; Kali Linux helped participants gain experience in securing modern digital environments. The bootcamp equipped students with both conceptual understanding and practical techniques for tackling emerging cybersecurity threats.

## साइबर फिजिकल सिस्टम सिक्योरिटी इन द एरा ऑफ आर्टिफिशल इंटेलीजेंस विषयक पांच दिवसीय फैकल्टी डेवलपमेंट कार्यक्रम का शुभारम्भ

फर्स्ट न्यूज बीकानेर 24 फरवरी 2025

बीकानेर। इंजीनियरिंग कॉलेज बीकानेर में इनफार्मेशन टेक्नोलॉजी विभाग द्वारा व केंद्रीय इलेक्ट्रॉनिक व आईटी मंत्रालय द्वारा वित्तपोषित साइबर फिजिकल सिस्टम सिक्योरिटी इन द एरा ऑफ आर्टिफिशल इंटेलीजेंस विषयक पांच दिवसीय फैकल्टी डेवलपमेंट कार्यक्रम का शुभारम्भ जिला परिषद् के सी.ई.ओ. आईएस सोहनलाल के मुख्य आतिथ्य में हुआ। कार्यक्रम के विशिष्ट अतिथि बीकानेर तकनीकी विश्वविद्यालय के फाइनल अधिकारी हनुमान प्रसाद थे। बतौर मुख्य अतिथि आईएस सोहनलाल ने संबोधित करते हुए आर्टिफिशल इंटेलीजेंस व साइबर सिक्योरिटी के विभिन्न आयामों के बारे में चर्चा की। उन्होंने विभिन्न उदाहरणों के माध्यम से इसके फायदे और पक्षों के बारे में जाकारी प्रदान की। बतौर विशिष्ट अतिथि बीकानेर तकनीकी विश्वविद्यालय के फाइनल अधिकारी हनुमान प्रसाद ने विभिन्न प्राचीन इंजीनियरिंग और तकनीकी ज्ञान आधारित विषयों पर प्रकाश डाला।



ईसीबी प्राचार्य ने डॉ. ओमप्रकाश जाखड़ ने कार्यक्रम की रूप-रेखा प्रस्तुत करते हुए बताया कि साइबर-फिजिकल सिस्टम (सीपीएस) से घरों और कार्यालयों में दक्षता और सुरक्षा में सुधार होता है। सीपीएस के जरिये विनिर्माण, परिवहन, स्वास्थ्य सेवा, ऊर्जा जैसे क्षेत्रों में प्रगति होती है।

कार्यक्रम संयोजक राजकुमार चौधरी ने बताया कि इस फैकल्टी डेवलपमेंट के जरिये लगभग 100 रिसर्च स्कॉलर, संकाय सदस्य और विद्यार्थी लाभान्वित होंगे। कार्यक्रम ऑनलाइन और ऑफलाइन दोनों माध्यमों से आयोजित किया जा रहा है। कार्यक्रम में प्रथम सत्र के मुख्य

वक्ता इंडियन इंस्टिट्यूट ऑफ टेक्नोलॉजी, जम्मू के प्रोफेसर यमुना प्रसाद ने पहले बतौर मुख्य वक्ता ने संबोधित करते हुए कहा कि मशीन लर्निंग आर्टिफिशल इंटेलीजेंस का ही एक हिस्सा है जो ऐसे एल्गोरिदम विकसित करने पर ध्यान केंद्रित करता है जो कंप्यूटर को स्पष्ट रूप से प्रोग्राम किए बिना सीखने और निर्णय लेने में सक्षम बनाता है। उन्होंने विभिन्न शोध कार्यों और प्रैक्टिकल लर्निंग द्वारा इस विषय पर गहनता से चर्चा की। कार्यक्रम के दूसरे और तीसरे सत्र के मुख्य वक्ता इंडियन इंस्टिट्यूट ऑफ टेक्नोलॉजी, जम्मू के डॉ. सत्यदेव अहलावत और गांधीनगर के डॉ. लवी लागी रहे। उन्होंने डिफेंस मैकेनिज्म, पॉवर अनालेटिक जैसे विषयों के बारे में शोधपरक चर्चा की। कार्यक्रम का सञ्चालन डॉ. गरिमा प्रजापत ने किया। धन्यवाद ज्ञापन डॉ. अजय चौधरी ने किया। कार्यक्रम संयोजक डॉ. राहुलराज चौधरी ने साइबर सिक्योरिटी, आर्टिफिशल इंटेलीजेंस और मशीन लर्निंग जैसे विषयों की महत्ता बताई।

## FIVE-YEAR PLAN OVERVIEW

Under ISEA Phase-III, Bikaner Technical University (BTU) has developed a strategic five-year roadmap to enhance cybersecurity education in emerging and futuristic technologies. The plan focuses on training a larger number of faculty members and students through regular Faculty Development Programs (FDPs), bootcamps, and cluster-level hackathons. As part of curriculum integration, specialized courses in cybersecurity and cryptography have been incorporated into the B.Tech. and M.Tech. programs. Additionally, the university has initiated a research-focused pathway by introducing an MS by Research program to further strengthen academic research in cybersecurity.





## Engineering College Bikaner Emerges as Microelectronics Innovation Hub with ₹1 Crore MeitY Grant

Engineering College Bikaner has achieved a significant breakthrough in the field of advanced technical education. With the guidance and blessings of Hon'ble Union Minister of Law and Justice, Shri Arjun Ram Meghwal, ECB has been granted access to premium software tools for Microelectronics Design and Fabrication, valued at over Rs. 1 crore through the Ministry of Electronics and Information Technology (MeitY), Government of India. This achievement marks a pivotal step toward positioning ECB as a center of excellence in semiconductor and electronics design. Recognizing the increasing demand for skilled professionals in chip design and the electronics sector, will strengthen technical education in Western Rajasthan. His proactive involvement ensured that MeitY directed the CHIP-IN division of C-DAC Bangalore to provide these critical tools to ECB.

### CORE TEAM

**Dr. Indu Bhuria Meghwal**  
Head, ECE Department

**Mr. Arvind Tandi**  
Assistant Professor  
EI&CE Department.

This success has been made possible through the efforts of Dr. Indu Bhuria Meghwal, Head, ECE department and Mr. Arvind Tandi of EI&CE department. This milestone not only strengthens ECB's academic and technical foundation but also contributes meaningfully to national missions like *Make in India* and *Digital India*, by nurturing a new generation of semiconductor and electronics professionals in the region.

## Workshop on Design and Development of Digital IC (Chip)

The Department of Electronics Instrumentation & Control Engineering (EI&CE) and the Institution's Innovation Council (IIC 7.0) of Engineering College Bikaner successfully organized an offline workshop titled “**Design and Development of Digital IC (Chip)**” from **16th to 30th April 2025**. The workshop witnessed active participation from **32 students**, who attended all sessions. The sessions were led by **Mr. Arvind Tandi (Assistant Professor)** as the expert speaker, along with student experts **Aryan and Parveen (3rd year, CSE)** and **Hari Singh Tanwar (3rd year, EI&CE)**. The event was convened by **Dr. Rahul Raj Choudhary**.

The first session introduced participants to **VLSI basics**, highlighting the difference between **ASIC and FPGA architectures** and explaining the **front-end and back-end design flow**, including RTL coding, synthesis, floor planning, routing, CTS, STA, and sign-off processes.

# Ph.D THESIS AWARDED IN YEAR 2024-25



Issue 001

ECB Newsletter June-2025/ Vol. 01

	<p><b>Thesis Title:</b> Development and Comparative Study of Performance and Emission Characteristics of Thermal Storage Integrated Micro- Trigenation System by Using Different Blends of Biodiesel</p> <p><b>Supervisor:</b> DR. OM PRAKASH JAKHAR</p> <p><b>Department:</b> Mechanical Engineering</p> <p><b>Affiliated University:</b> Rajasthan Technical University, Kota</p>
<p><b>Thesis Title:</b> Influence of Holiday Satisfaction and Destination Image of Future Behavioral Intentions with Special Reference to Desert Triangle of Rajasthan</p> <p><b>Supervisor:</b> DR. NAVEEN SHARMA</p> <p><b>Department:</b> Management Studies</p> <p><b>Affiliated University:</b> Rajasthan Technical University, Kota</p>	
	<p><b>Thesis Title:</b> Power System Performance Improvement using Robust Load Frequency Control Techniques</p> <p><b>Supervisor:</b> DR. MAHENDRA BHADU</p> <p><b>Department:</b> Electrical Engineering</p> <p><b>Affiliated University:</b> Bikaner Technical University, Bikaner</p>
<p><b>Thesis Title:</b> Investigations on Effect of Infill Patterns on Performance of Fused Deposition Modeling</p> <p><b>Supervisor:</b> DR. DHARMENDRA SINGH AND DR. JAIPRAKASH BHAMU</p> <p><b>Department:</b> Mechanical Engineering</p> <p><b>Affiliated University:</b> Bikaner Technical University, Bikaner</p>	
	<p><b>Thesis Title:</b> Performance Analysis of Photovoltaic-Thermal (PVT) Air Collector and its Application</p> <p><b>Supervisor:</b> DR. CHANDRA SHEKHAR RAJORIA</p> <p><b>Department:</b> Mechanical Engineering</p> <p><b>Affiliated University:</b> Bikaner Technical University, Bikaner</p>
<p><b>Thesis Title:</b> Performance Enhancement of AC Microgrid Using Robust Control Strategies in Modern Power System</p> <p><b>Supervisor:</b> DR. MAHENDRA BHADU</p> <p><b>Department:</b> Electrical Engineering</p> <p><b>Affiliated University:</b> Bikaner Technical University, Bikaner</p>	
	<p><b>Thesis Title:</b> Design and Development of Power Electronic Converters and their Control for Electric Vehicles and other Transportation Systems</p> <p><b>Supervisor:</b> DR. VIKAS SHARMA AND DR. UJJWAL KUMAR KALLA</p> <p><b>Department:</b> Electrical Engineering</p> <p><b>Affiliated University:</b> Bikaner Technical University,</p>
<p><b>Thesis Title:</b> Design, Development and Analysis of Power Electronic Converters and their Control for Renewable Energy Systems</p> <p><b>Supervisor:</b> DR. VIKAS SHARMA AND DR. UJJWAL KUMAR KALLA</p> <p><b>Department:</b> Electrical Engineering</p> <p><b>Affiliated University:</b> Bikaner Technical University,</p>	
	<p><b>Thesis Title:</b> Analysis of PMSM Motor and Their Control Schemes</p> <p><b>Supervisor:</b> DR. VIKAS SHARMA</p> <p><b>Department:</b> Electrical Engineering</p> <p><b>Affiliated University:</b> Bikaner Technical University, Bikaner`</p>
<p><b>Thesis Title:</b> Impact of Micro Financial Institutions on Indian Economy with Special Reference to Alwar District of Rajasthan</p> <p><b>Supervisor:</b> DR. NAVEEN SHARMA</p> <p><b>Department:</b> Management Studies</p> <p><b>Affiliated University:</b> Rajasthan Technical University, Kota</p>	

# STUDENTS' SPONSORSHIP PROJECTS



AFFECTIVE –AI STARTUP: RECEIVED GRANT OF ₹ 2.40 LAKH

Issue 001

ECB Newsletter June-2025/ Vol. 01

## Affective-AI: Bikaner Engineering Students Secure ₹2.40 Lakh Grant to Pioneer 3D Web Development”

The Department of Information Technology and Communication, Government of Rajasthan, has selected a startup by three students of Engineering College, Bikaner, for financial assistance and support. The startup, “**Affective-AI**” presented by B. Tech Computer Science and Engineering students has received a grant of **Rs. 2.40 lakh**. With this financial support, they will develop a **web development kit** designed for building **3D websites**.

The startup “**Affective-AI**” was founded by **Sumit Kumar Purohit**, who aims to revolutionize the web development industry. The team has **Sumit Purohit (Founder & CEO)**, **Mayank Vyas (CTO)**, and **Yuvraj Harsh (Marketing Executive)**, will use this grant to enhance their web development kit and bring 3D website solutions to the market.



### HIGHLIGHTS

- ✓ Grant of ₹2.40 lakh
- ✓ The Incubation Center in Bikaner has registered this startup
- ✓ Essential support under the iStart Rajasthan program

### Team Members

- ✓ **Sumit Purohit (Founder & CEO)**
- ✓ **Mayank Vyas (CTO)**
- ✓ **Yuvraj Harsh (Marketing Executive)**

The selected startup received essential support under the **iStart Rajasthan** program, a government initiative that promotes entrepreneurship by providing financial aid, mentorship, and incubation opportunities. The **Incubation Center in Bikaner** has registered this startup and provided office space and resources needed to scale their venture.

The success in securing financial aid reflects the commitment and the support provided by the **Dr. Surendra Singh Chaudhary**, Head, CSE department and **Mr. Gagan Bhatia**, Officer-in-Charge at iStart Bikaner.

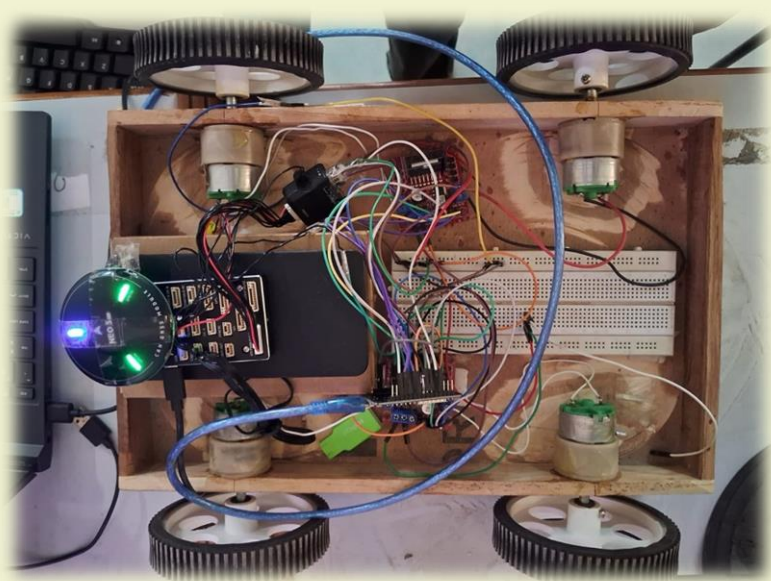




## Revolutionizing Indian Agriculture: Student Startup from Bikaner, Gains National Recognition

In a significant leap for Indian Agri-Tech, a student-led start-up from Engineering College Bikaner, **Krashak Innovative Solution**, is making waves with its ground breaking work in AI, robotics, and precision farming.

The start-up founded with a mission to transform traditional farming practices through cutting-edge technology. The venture has rapidly gained recognition and support from some of India's most prestigious institutions. **Krashak Innovative Solution** is now officially recognized by **Startup India** and the **Department for Promotion of Industry and Internal Trade (DPIIT)**, a mark of its growing impact and potential in the agri-tech space.



The startup is **incubated at premier institutions** including **IIT Hyderabad, IIT Ropar, and IIT Kharagpur**, giving it access to world-class research, mentorship, and innovation ecosystems. Leveraging these resources, the team is

### HIGHLIGHTS

- ✓ Grant of ₹ 10 lakhs from IIT Hyderabad for product development and AI Integration
- ✓ Grant of ₹ 1.5 lakhs from IIT Ropar to facilitate field deployment and real-world testing

### Team Members

Karan Nahata, Atharv Patel, Tarun Kansara, Akshit Ahuja, Vaibhav Pareek, Ritika Kumari, Vinay Sharma

developing affordable and scalable solutions tailored to the needs of Indian farmers, particularly in soil testing, smart farming systems, and real-time agricultural intelligence. **Krashak Innovative Solution** stands as a beacon of student innovation, showing how technology and grassroots understanding can come together to address one of India's most critical sector; agriculture. Key Technological innovations includes; Portable Soil Health Monitoring System, Autonomous Agricultural Rover and AI-Based Farmer Guiding System.

The startup has also received a grant of ₹10 Lakhs from **IIT Hyderabad** for **product development and AI integration**, this funding accelerates **Krashak's** R&D efforts, especially in areas like precision soil testing and smart farming systems. Awarded with Rs. 1.5 Lakhs **Support from IIT Ropar** to facilitate **field deployment and real-world testing** of the startup's solutions, ensuring practical scalability and effectiveness for Indian farmers.





## ECB Signs MoU with National Research Centre on Equines for Advanced Equine Research through Electronics & AI

**Date:** January 10, 2025

**Venue:** Engineering College Bikaner (ECB)

Engineering College Bikaner (ECB) has entered into a significant Memorandum of Understanding (MoU) with the **National Research Centre on Equines (NRCE)**, Bikaner, a premier unit of the **Indian Council of Agricultural Research (ICAR)**. This strategic

partnership aims to leverage **electronics, automation, and artificial intelligence** to advance equine research, monitoring, and welfare.

The MoU signing ceremony was held in the esteemed presence of **Prof. Ajay Kumar Sharma**, Hon'ble Vice Chancellor, Bikaner Technical University (BTU). The agreement was signed by **Dr. Om Prakash Jakhar**, Principal, ECB, and **Dr. T.K. Bhattacharya**, Director, ICAR-NRCE, Hisar.



## A Collaborative Leap towards Smart Animal Farming

India's equine population has witnessed a significant decline in recent decades, with several indigenous breeds like Gujarat's Halari Donkeys nearing extinction. However, the recent surge in demand—especially for donkey milk in the cosmetic and pharmaceutical sectors—has renewed interest in sustainable and tech-integrated donkey farming.

This MoU seeks to introduce smart technologies in equine care, enabling:

- **Reduced manual labor** through automation of feeding, climate control, and health monitoring
- **Enhanced supervision** with real-time tracking of animal health and productivity
- **Sustainable systems** to boost animal welfare and farm efficiency

## Program Objectives and Benefits

- Integrate **electronics-based instrumentation, automation, and IT systems** into equine research
- Provide **hands-on research opportunities** for ECB students in areas like IoT, embedded systems, and smart farming
- Enable students to work on **monitoring systems** for health parameters (e.g., pulse, respiration, movement)
- Bridge the gap between **academic learning and industrial application**
- Promote **mutual knowledge exchange** and long-term collaboration between ECB and NRCE

## Three-Phase Development Model

Under the MoU, the Department of Electronics Instrumentation and Control Engineering (EI&CE), ECB will develop systems in three phases:

1. **Phase 1:** Automated feed and water supply system integrated with real-time monitoring
2. **Phase 2:** Climate control system for animal housing
3. **Phase 3:** Animal health parameter monitoring system (pulse, respiration, activity tracking)

## Leadership and Execution

The project will be executed under the joint supervision of Assistant Professors Mr. Arvind Tandi and Mr. Harjeet Singh from ECB and Dr. Muhammad Kutty, Senior Scientist, NRCE. A team of researchers and technical experts from both institutions will collaboratively develop solutions combining **bio-technology, electronics, and automation**.



बीकानेर 11-01-2025

उच्च शिक्षा: ईसीवी और राष्ट्रीय अश्व अनुसंधान केंद्र के बीच साझा रिसर्च और लर्निंग प्रोग्राम के लिए किया गया एमओयू

## अश्व की बेहतर निगरानी के लिए ऑटोमेशन सिस्टम विकसित होंगे, तीन चरणों में किया जाएगा काम

बीकानेर | इंजीनियरिंग कॉलेज ऑफ बीकानेर और भारतीय कृषि अनुसंधान परिषद के बीकानेर स्थित केंद्र राष्ट्रीय अश्व अनुसंधान केंद्र के बीच साझा रिसर्च और लर्निंग प्रोग्राम के लिए एमओयू किया गया है।

एमओयू के तहत तीन चरणों में ईसीवी के ईआईसीई विभाग में इलेक्ट्रॉनिक्स और ऑटोमेटिक सिस्टम विकसित किए जाएंगे जो आईओटी के साथ मिलकर काम करेंगे। ईसीवी के छात्रों को अपने इलेक्ट्रॉनिक, एंबेडेड और आईओटी सिस्टम डेवलपमेंट स्किल्स का उपयोग विभिन्न देशी तथा आयातित अश्वों की नस्ल बेहतर बनाने, अश्वों की कार्यक्षमता एवम उत्पादकता बढ़ाने के साथ साथ इनके स्वास्थ्य सम्बंधित परामर्शों की उचित निगरानी तथा खानपान को ऑटोमेटेड सिस्टम्स के साथ बेहतर बनाने तथा इस क्षेत्र में अनुसंधान में करने का अवसर मिलेगा। इस एमओयू से दोनों संस्थानों के बीच सहयोग और

ज्ञान साझा करने अश्व अनुसंधान में नवाचार और उत्कृष्टता को बढ़ावा देने का मार्ग प्रशस्त होगा। यह एमओयू शुक्रवार को बीटीयू कुलपति प्रो. अजय कुमार शर्मा की उपस्थिति में हुआ। बीटीयू की तरफ से इसीवी प्राचार्य डॉ. ओम प्रकाश जाखड़ ने हस्ताक्षर किए तथा राष्ट्रीय अश्व अनुसंधान संस्थान की तरफ से नेशनल रिसर्च सेंटर ऑन इक्विन्स, हिसार के निदेशक डॉ. टीके भट्टाचार्य द्वारा किए गए हैं। इस एमओयू के तहत इस परियोजना के संचालन की जिम्मेदारी ईसीवी के सहायक प्रोफेसर अरविंद और हरजीत सिंह एवम केंद्रीय अश्व अनुसंधान केंद्र के वरिष्ठ वैज्ञानिक डॉ. कुट्टी नेतृत्व में विभिन्न वैज्ञानिकों की टीम देखेगी। दोनों संस्थानों के विशेषज्ञों के मार्गदर्शन में वित्तीय संसाधनों और जैव-प्रौद्योगिकी के क्षेत्र में इलेक्ट्रॉनिक एवम ऑटोमेशन तकनीक के समावेश के साथ यह परियोजना आगे बढ़ेगी।

चरणबद्ध तरीके से किए जाने हैं यह काम

**1. ऑटोमेटिक एनिमल फीड और वॉटर सप्लाई और मॉनिटरिंग सिस्टम विकसित करना।**

■ रिसर्च को बढ़ावा देने वाले इस एमओयू से दोनों संस्थानों के बीच सहयोग और ज्ञान साझा करने सहित अश्व अनुसंधान में नवाचार और उत्कृष्टता को बढ़ावा देने का मार्ग प्रशस्त होगा। छात्रों को अपनी स्किल्स उद्योगों के अनुरूप सटीक एवम बेहतर बनाने का अवसर मिलेगा।

प्रो. अजय कुमार शर्मा, कुलपति, बीकानेर तकनीकी विश्वविद्यालय

**2. क्लाइमेट कंट्रोल सिस्टम विकसित करना जो एनिमल के वॉट्टी पैरामीटर्स जैसे पल्स, रेस्पिरेशन आदि को निगरानी करेगा।**

**3. मॉनिटरिंग सिस्टम विकसित करना जो एनिमल के वॉट्टी पैरामीटर्स जैसे पल्स, रेस्पिरेशन आदि को निगरानी करेगा।**

■ विलुप्त होती जा रही कुछ विशिष्ट नस्लों के संरक्षण में इंजीनियरिंग स्किल्स की मदद महत्वपूर्ण साबित होगी।  
डॉ. एससी मेहता, शिक्षण वैज्ञानिक, राष्ट्रीय अश्व अनुसंधान केंद्र, हिसार

## Tree Plantation Drive Organized under 'Hariyalo Rajasthan' and 'One Tree for Mother' Campaign

**Date:** 27 July 2024

**Event Coordinator:** Dr. Ankur Goswami

**Event Conducted by:** Student Activity Center

A large-scale tree plantation drive was organized in the institute as a part of the 'Hariyalo Rajasthan: Chief Minister's Plantation Campaign' and the 'One Tree for Mother' initiative. The event was held in the esteemed presence of Prof. Ajay Sharma, Vice-Chancellor of Bikaner Technical University with a message *"Keep the environment clean, green, and balanced"*. Addressing the gathering, Prof. Sharma emphasized the importance of tree plantation and environmental preservation. He stated that such initiatives play a vital role in maintaining ecological balance and that every individual must take responsibility for protecting and nurturing the environment. "It is our foremost duty to contribute to a clean, green, and healthy environment without being asked," he added. Dr. Om Prakash Jakhar, Principal of ECB, administered an oath to students, encouraging them to plant trees themselves and inspire others to do the same.



## 78th Independence Day Celebrations at Engineering College Bikaner

**Date:** 15 August, 2024

**Event Coordinator:** Dr. Ankur Goswami

**Event Conducted by:** Student Activity Center

Engineering College Bikaner (ECB) marked India's 78th Independence Day with fervor and patriotism. The event commenced with the hoisting of the national flag by Principal Dr. Om Prakash Jakhar, who emphasized the integration of technical education with the development of moral values for holistic student growth. The Student Activity Center (SAC) organized cultural and literary performances, including poetry recitations, patriotic songs, and traditional dances, which were enthusiastically participated in by students such as Yashvardhan, Piyush, Yashvi, Aastha, Dushyant, Aditi, Soumya, Tarini, Chitransha, Abhishek, Kusum, Joyel, Khushi, Divyanshi, and NCC cadets. The celebrations concluded with a tree plantation drive and the distribution of sweets, reinforcing the spirit of unity and national pride among the college community.



## Internal Hackathon-2024 Organized at Institute ---Date: 11-09-2024

An *Internal Hackathon 2024* was organized at Engineering College Bikaner under the banner of the *Institute Innovation Council (IIC)* to foster a spirit of innovation and problem-solving among students.

Coordinators Dr. Indu Bhuria Meghwal and Dr. Ajay Choudhary shared that nine outstanding student projects were showcased. 45 students from various departments presented their ideas focused on product innovation and creative solutions.



### Key Projects Presented:

- **Automatic Cricket Bowling Machine**  
Developed at a cost of just ₹2000, this affordable training device is powered by a PCB system that controls three motors for different bowling styles. Operated via a Bluetooth app, users can adjust ball type and speed. It was created by *Aryan and team*, the machine serves as an efficient and economical training aid for cricket players.
- **Advanced News Aggregator**  
A Flask-based web application that provides users with quick and concise summaries of the latest tech news. Users input a topic of interest, and the backend scrapes top news and articles from multiple websites.
- **Face Pulse Vision**  
Designed by *Yogesh and team*, this device detects heart rate by analysing colour variations in the skin due to blood flow. The sensor-based system uses facial data to estimate pulse without physical contact.
- **Dreamers**  
A platform that connects donors with underprivileged students, helping them receive financial aid for education through a transparent and accessible interface.

**Selected Projects to Compete in Smart India Hackathon:** Top ideas from this internal scrutiny committee were recommended for the **Smart India Hackathon**, organized annually by **AICTE** in collaboration with the **Ministry of Education (MoE)**.

All projects were evaluated by a panel of experts including **Principal Dr. Om Prakash Jakhar**, **Dr. Rahul Raj Choudhary**, **Dr. Manoj Kuri**, **Dr. Naveen Sharma**, **Dr. Dhanroopmal Nagar**, **Dr. Dharmendra Singh**, **Dr. Rituraj Soni**, and **Dr. Ranjeet Singh Rathore**.

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## Engineers' Day Celebrated at ECB---Date: 15-09-2024

Engineering College Bikaner celebrated Engineers' Day, honoring Sir M. Visvesvaraya. Principal Dr. Om Prakash Jakhar highlighted his contributions, emphasizing that skilled engineers drive national progress. He noted their pivotal role in development, leveraging knowledge and experience to build a strong foundation. The event was attended by faculty, staff, and students, fostering inspiration and unity.

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## ‘Deeksharambh’ Induction Program for First-Year Engineering Students---Date: 17-09-2024

**A Week-long program focuses on academic orientation and holistic development**

The valedictory session of ‘*Deeksharambh*’, the induction program for newly admitted engineering students, held at institute was ended with message from District Collector Ms. Namrata Vrishni gracing the occasion as Chief Guest.

Addressing the gathering, Ms. Vrishni emphasized the value of books, calling them “man’s best friend” and a lifelong source of knowledge that asks for nothing in return. She urged students to reduce screen time, especially on social media, and instead immerse themselves in meaningful learning. Quoting Gautam Buddha’s “*Appo Deepo Bhava*”, she encouraged students to rely on self-knowledge and experience as guiding lights. She further highlighted the importance of using science and technology for the betterment of humanity. **Principal Dr. Om Prakash Jakhar** welcomed the new students and motivated them to utilize the college’s resources effectively. He described *Deeksharambh* as a significant first step in their academic journey and expressed confidence in its lasting impact on their personal and professional growth.



Program Coordinators **Dr. Atul Goswami**, **Dr. Shraddha Parmar**, **Dr. Garima Prajapat**, **Dr. Jeetendra Jain**, and **Dr. Indu Bhuria** briefed students on the college’s research facilities and academic structure.

The induction week was packed with experiential learning and self-development activities, including:

- Industrial visit to **Bikaji Food Plant**
- **Yoga and wellness sessions**
- *One Student, One Tree* plantation initiative
- **Personality development workshops**
- **Self-defense training**
- **Sketching competition**
- **Meditation and Mind Peace sessions**
- Interactive ice-breaking events

The program was compered by **Dr. Garima Prajapat**, with a vote of thanks delivered by **Dr. Atul Goswami**

## Gandhi Jayanti Celebrated with Campus Cleanliness Drive

On October 2, 2024, Gandhi Jayanti was commemorated at ECB with a campus-wide cleanliness drive, engaging students, faculty, and NCC cadets. The initiative honored Mahatma Gandhi and Lal Bahadur Shastri by promoting the ideals of cleanliness and selfless service. Dr. Ankur Goswami, SAC Coordinator, emphasized adopting Gandhiji's values in daily life, stating, *"True homage to Gandhi is to walk the path he showed us. Cleanliness is not just a personal responsibility but a national one."* Principal Dr. Om

Prakash Jakhar highlighted the importance of collective responsibility in maintaining a clean environment. The two-week celebration aligned with the national "Swachhata Hi Seva" campaign, featuring cleanliness drives, awareness rallies, poster and slogan-making competitions, and debates on hygiene and public health. Faculty and staff, including Dr. Narpal Singh (NCC Officer), Mr. Rajendra Singh Shekhawat, Mr. Vikram Singh, Mr. Ganesh Singh (Chief Warden), and Mr. Subhash Songara, supported and encouraged participants. The events culminated with students pledging to maintain cleanliness, abstain from tobacco and intoxicants, and actively contribute to building a cleaner India.



## Workshop on "Entrepreneurship and Research Promotion"

On October 4, 2024, a one-day workshop on "Entrepreneurship and Research Promotion" was organized at ECB in collaboration with the Swavalambi Bharat Abhiyan, Bikaner. Dr. Dhanpat Ram Agrawal, All India Co-convenor of Swadeshi Jagran Manch, delivered the keynote address, emphasizing the pivotal role of youth in achieving a developed India by 2047. He highlighted the significance of innovation and research in enhancing global competitiveness, noting that developed nations invest 5–10% of

their GDP in research. Dr. Agrawal encouraged small-scale industries to form clusters and collaborate with young researchers to promote indigenous entrepreneurship. Anil Verma, Regional Head of the campaign, elaborated on its mission to strengthen youth economically by fostering entrepreneurship. Dr. Om Prakash Jakhar, Principal, spoke about the immense potential for youth in the technical and research domains, urging them to explore these fields actively. The workshop was conducted by Shri Manohar Singh Rathore and attended by key members of the Swadeshi Jagran Manch, including Pramesh Agrawal, Ashok Joshi, Shravan Raika, Aditya Bishnoi, Raghuveer Sharma, Jayram Chaudhary, Santosh Yadav, Amrit Kumawat, Hitesh, and Devendra Singh.



### Workshop on “Password to Happiness

On December 5, 2024, Engineering College Bikaner (ECB) hosted a three-day workshop titled “Khushi Ka Password” to promote mindfulness and mental well-being among students. Mentors Vamsi Mohan Das Prabhu and Aindra Das Prabhu from the Akshaya Patra Foundation led sessions on mind control, mental health, and overcoming challenges like digital addiction and substance abuse. Dr. Om Prakash Jakhar, Principal, lauded the initiative, while student coordinator Ajay Sharma shared his transformative experience with mindfulness techniques. The workshop empowered students with practical tools for inner balance and well-being.

### Ramanujan Jayanti Celebrated with Inspiring Workshop

The Department of Mathematics on December 24, 2024, organized a workshop to commemorate the birth anniversary of Srinivasa Ramanujan, one of India's greatest mathematicians. Principal Dr. Om Prakash Jakhar emphasized that many of Ramanujan's findings remain unsolved mysteries for modern mathematicians. Speakers Dr. Radha Mathur and Dr. Amit Soni shared insights on Ramanujan's remarkable journey from modest beginnings to international acclaim, including the rediscovery of his “lost notebook” in Trinity College, which continues to inspire researchers. Dr. Vijay Makad and Dr. Manoj Soni discussed Ramanujan's early brilliance, noting that he compiled over 3,800 theorems, most of which have since been validated.

### National Startup Day Celebrated

On January 16, 2025, National Startup Day was celebrated with an inspiring session to promote student entrepreneurship. Dr. Indu Bhuria, Head of Electronics & Communication Engineering, coordinated the event, featuring Dr. Rahul Raj Choudhary, who motivated students to pursue startups. Dr. Hardayal Singh emphasized start-up role in India's economy and government support schemes. The i-Start Incubation Centre representatives, including Mr. Gagan Bhatia, discussed incubation and Rajasthan's Startup Policy. Mr. Rajkumar Choudhary highlighted machine learning and cybersecurity in startups. Entrepreneur Mr. Krishna Ojha shared his journey, urging resilience. The event ended with a Q&A and a visit to the i-Start Incubation Centre.

### Road Safety Workshop

Engineering College Bikaner (ECB), with the Transport Department, held a road safety workshop featuring videos and quizzes to raise transportation awareness. Principal Dr. Om Prakash Jakhar emphasized ECB's safety policies, including banning student-driven four-wheelers and mandating helmets. Dr. Ankur Goswami stressed traffic rule adherence to prevent accidents. Transport Officer Anil Pandya introduced the “Parwah” campaign, promoting public awareness. Transport Inspector Karna Ram highlighted safety through rules. Chaired by Pandya, the event included a pledge, a dance by Tanisha Daga, and quiz awards.



## Celebrated 15th National Voters' Day

On January 25, 2025, Engineering College Bikaner celebrated the 15th National Voters' Day with enthusiasm, involving faculty, staff, and students from various programs. Principal Dr. Om Prakash Jakhar led a pledge to vote diligently, emphasizing voting's role in democracy. Coordinator Dr. Ankur Goswami highlighted the Election Commission's significance and the theme "Nothing Like Voting, I Vote for Sure." Competitions saw Rajveer Singh (B.Tech) and Falak (BCA) win essay and drawing contests. The event concluded with an oath to uphold democratic values.

## Safer Internet Day Celebrated

On February 11, 2025, Engineering College Bikaner (ECB), under Bikaner Technical University, celebrated Safer Internet Day as a part of the ISEA Program's third phase, supported by the Ministry of Electronics and Information Technology, organized by the Electronics Instrumentation and Control Engineering and Information Technology departments. The event featured a technical session and quiz on "Innovation and Awareness for a Safer Internet." Amid rising cybercrimes like phishing, vishing, and ransomware, speakers, including Ms. Pooja Mandal, Mr. Raj Kumar Choudhary, and Ms. Pooja Bhardwaj, emphasized safe internet practices, reporting to the 1930 helpline, and cyber-security in cyber-physical systems. Faculty and 40 students participated, with Junior Research Fellows Lokesh Barwad and Gautam concluding the event.

## Four-Week Training Program on Problem Solving and Innovation with Machine Learning

On February 15, 2025, Engineering College Bikaner (ECB) launched a four-week training program on Problem Solving and Innovation with Machine Learning, coordinated by students Karan Nahta and Atharv Patel, guided by Dr. Jitendra Jain and Mr. Arvind. With 47 students from ECB, Government Polytechnic College, BTU, and CET, the program focuses on machine learning and AI skills. Chief Guest Principal Dr. Om Prakash Jakhar and Ms. Pooja Bhardwaj, Head of Electronics Instrumentation and Control, attended the inaugural session. Dr. Rahul Raj Choudhary emphasized AI's growing demand, while Dr. Jakhar urged students to transform Bikaner into a tech hub. Faculty member Mr. Harjeet Singh stressed practical learning.

## Celebrated Rajasthan Foundation Day

On March 28, Government Engineering College Bikaner celebrated Rajasthan Foundation Day with enthusiasm. Principal Dr. Om Prakash Jakhar welcomed attendees, emphasizing Rajasthan's rich culture, heritage, and progress. He honored icons like Maharana Pratap, Meerabai, Prithviraj Chauhan, and Bhamashah for their enduring legacy. Observed annually on March 30 to commemorate Rajasthan's formation in 1949, the event included a pledge ceremony led by Dr. Ankur Goswami, where staff committed to advancing the state's growth. The celebration highlighted Rajasthan's unity and diversity,





### Celebration of Bhartiya Navvarsh 2082

On April 1, 2025, Engineering College Bikaner (ECB) celebrated Vikram Samvat 2082, organized by the Student Activity Centre. The event began with a lamp lighting ceremony and Saraswati Vandana, followed by floral tributes to Goddess Saraswati. Principal Dr. Om Prakash Jakhar highlighted Chaitra Pratipada's cultural significance, urging students to embrace Indian traditions. Cultural performances included a classical dance, patriotic songs, and a mesmerizing flute recital. Chief Guest Shri Vinayak Ji emphasized the Indian New Year's spiritual relevance. Registrar Mr. Amit Soni and Coordinator Dr. Ankur Goswami lauded the event's success, fostering cultural pride among over 200 students and faculty.

### Entrepreneurship Awareness Program Organized

On April 4, 2025, the Training & Placement Cell of Engineering College Bikaner (ECB), in collaboration with the MSME Technology Development Centre, Ministry of MSME, hosted a one-day Entrepreneurship Awareness Program. Over 300 engineering and management students participated. Dr. Richa Yadav, Program Convener, emphasized early entrepreneurial training for career readiness. Vice Chancellor Prof. Ajay Sharma highlighted entrepreneurship's role in economic growth and innovation. Mr. Rais Ahmad from Jodhpur Institute delivered a keynote on business planning, funding, and market analysis. Principal Dr. Om Prakash Jakhar stressed the importance of entrepreneurial awareness in today's dynamic job market, fostering independent thinking and innovation among students.

### Workshop on Women's Health and Hygiene Standards

On April 26, 2025, Engineering College Bikaner (ECB) hosted a one-day workshop on women's health and hygiene, raising awareness among female students and staff. Dr. Shweta Nehra, ICC Chairperson, delivered the welcome address. Chief guest Dr. Pushpa Sharma shared insights on hygiene, diet, mental well-being, and healthy lifestyles. Alka Chaudhary discussed women's rights. Principal Dr. Om Prakash Jakhar emphasized empowerment through such initiatives. Event was Coordinated by Dr. Radha Mathur and Mrs. Charu Jain, with contributions from ICC members and students. The workshop saw participation from faculty, including Dr. Preeti Naruka and Dr. Indu Bhuria, and non-teaching staff, fostering valuable health and hygiene awareness.

### Inspiring Future Engineers: Educational Visit

On February 17, 2025, the Proctor Section of Engineering College, Bikaner, hosted an educational visit for 5th to 8th graders from government schools in Shri Ganganagar, led by Dr. Indu Bhuria and Mr. Dhanroop Mal Nagar. The initiative aimed to expose students to higher education in engineering. They explored the campus, interacted with faculty, and engaged with departments to understand practical applications of their studies. By meeting professors, students, and professionals, the visitors gained insights into career opportunities and the transformative impact of engineering education, inspiring them to pursue academic and professional excellence.



## AAHVAAN 2024: ECB's Annual Sports Extravaganza

### Event Highlights

A three-day sports fest started from 20-22 December 2024, featuring over 22 sports, including cricket, basketball, volleyball, badminton, and athletics, with participation from over 500 students. The Computer Science Department clinched the Institute Sports Trophy, securing 56 gold medals, while the Civil Department earned the second-highest gold medal count.

### Inaugural Session

The grand opening of Aahvaan 2024 was led by Bikaner West MLA Jethanand Vyas, who highlighted the role of sports in building resilience and overcoming fear of failure. IPS officer Vishal, CO Sadar Thana, emphasized sports' contribution to physical, mental, and social growth. Principal Dr. Om Prakash Jakhar outlined the event schedule and encouraged participants to embody true sportsmanship.

### Winners and Achievements

The Computer Science Department excelled, delivering outstanding performances in women's basketball, volleyball, kho-kho, and badminton, securing the Institute Sports Trophy. Over 390 gold, silver, and bronze medals were awarded to students and staff, reflecting remarkable athletic talent, dedication, teamwork, and competitive spirit across various disciplines.



अर, 2024

500 से ज्यादा खिलाड़ी ले रहे हैं हिस्सा

## तीन दिवसीय स्पोर्ट्स इवेंट आह्वान का आगाज

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patrika.com

बीकानेर. इंजीनियरिंग कॉलेज बीकानेर में तीन दिवसीय स्पोर्ट्स इवेंट आह्वान का आगाज बीकानेर पश्चिम विधायक जेठानंद व्यास के मुख्य आतिथ्य में हुआ।

विधायक व्यास ने छात्र-छात्राओं के विकास व अच्छे स्वास्थ्य के लिए खेलकूद की आवश्यकताओं पर बल दिया। उन्होंने कहा कि पढ़ाई के साथ-साथ खेल भी बढ़े और हमारे युवा, हमारे खिलाड़ी हर प्रकार के करियर के लिए फिट रहें। खेल भाव से असफलता से लड़ना सिखाता



स्पोर्ट्स इवेंट आह्वान का उद्घाटन करते विधायक जेठानंद व्यास तथा शतरंज में भागीदारी निभाते खिलाड़ी।

हैं। विशिष्ट अतिथि सीओ सदर विशाल ने कहा कि खेल प्रतियोगिताओं में हिस्सा लेने से न केवल शारीरिक व मानसिक विकास होता है बल्कि सामाजिक विकास में

भी खेल काफी सहायक है। प्राचार्य ओम प्रकाश जाखड़ ने आगामी तीन दिनों में होने वाले कार्यक्रम की गतिविधियों से अवगत करवाया। उन्होंने ने खिलाड़ियों से मुलाकात



कर उन्हें खेल भावना से बेहतर खेल का प्रदर्शन करने के लिए प्रेरित किया।

कार्यक्रम संयोजक डॉ नवीन शर्मा और देवेंद्र गहलोत ने बताया की

### पहले दिन ये रहे विजेता

डॉ. घर्मेन्द्र सिंह और डॉ. इंदु भूरिया ने बताया कि उद्घाटन के दौरान महिला बास्केटबॉल में कंप्यूटर साइंस विभाग, महिला खो-खो में सिविल विभाग, महिला वॉलीबॉल में कंप्यूटर साइंस विभाग, महिला बैडमिंटन में कंप्यूटर साइंस विभाग ने जीत दर्ज कर अगले राउंड के लिए क्वालीफाई किया। वहीं क्रिकेट में आर्टिफीशियल इंटेलिजेंस विभाग, मैकेनिकल विभाग और इलेक्ट्रिकल विभाग ने जीत दर्ज कर अगले राउंड के लिए क्वालीफाई किया। फुटबॉल में बीबीए, बीसीए और इलेक्ट्रिकल विभाग ने जीत दर्ज कर अगले राउंड के लिए क्वालीफाई किया। स्टाफ सदस्यों के क्रिकेट मैच में विकास टाइटान ने बैप्टिस्ट इलेवन को हराया।

आह्वान में क्रिकेट, बास्केटबॉल, फुटबॉल, वॉलीबॉल, बैडमिंटन, एथलीट सहित 22 से अधिक खेलों की प्रतियोगिता हो रही है, जिसमें 500 से अधिक इंजीनियरिंग,

कंप्यूटर एप्लीकेशन व प्रबंधन क्षेत्र के विद्यार्थी हिस्सा ले रहे हैं। एनसीसी कैडेट्स ने डॉ. नरपत सिंह शेखावत के निर्देशन में परेड कर मार्च पोस्ट किया।



# AAHVAAN - 2024

A ECB'S ANNUAL SPORTS EXTRAVAGANZA CONCLUDES WITH GLORY



Issue 001

ECB Newsletter June-2025/ Vol. 01

## Closing Ceremony

Govt. of Rajasthan Cabinet Minister Sumit Godara, as chief guest, felicitated winners and underscored the importance of sports in fostering teamwork and problem-solving. Dr. Yadunath Singh, Dean Academics, Bikaner Technical University, attended, and Dr. Jakhar emphasized sports' role in nurturing competitive spirit and mental well-being.

## Organization and Coordination

The event was seamlessly organized Under Dr. Naveen Sharma's convenorship. The organizing committee comprised distinguished faculty and staff members including Dr. Indu Bhuria, Dr. Dharmendra Singh, Dr. Devendra Gehlot, Dr. Mohd. Yunus Shiekh, Dr. C S Rajoria, Dr. Vineet Kumar, Dr. Rakesh Poonia, Dr. Garima Prajapat, Dr. Ranjeet Singh, Dr. Sanjay Tejasvi, Dr. Ajay Chaudhary and Mr. Angad Vishnoi. NCC cadets, led by Dr. Narpat Singh Shekhawat, added grandeur with a march-past.

## Funding and Financial Impact

Remarkably, Aahvaan 2025 was organized **WITHOUT UTILIZING A SINGLE RUPEE** from college funds. The entire expenditure was managed through sponsorships, showcasing efficient resource management by Aahvaan team. Additionally, approximately ₹35,000 was saved and deposited into the college account, which was later used to purchase sports equipment for the benefit of students, enhancing their athletic resources and opportunities.





# NAVRANG - 2024

## ECB'S RADIANT FEST



Issue 001

ECB Newsletter June-2025/ Vol. 01



### Navrang 2024 Winners

Best Dancer (Male): Vinay

Best Dancer (Female): Kirti Solanki

Best Costume (Female): Tanisha Daga

Best Costume (Male): Kanu Singh

### Navrang 2024: ECB's Radiant Fest

Engineering College Bikaner transformed into a vibrant hub of culture and spirituality during *Navrang 2024* held on October 5, 2024, a grand garba event celebrating Navratri. This dazzling evening, a cornerstone of the college's cultural calendar, showcased the enthusiasm and talent of its students, filling the campus with festive energy.

The event began with a ceremonial puja of Maa Durga, conducted by Chief Guest, MLA Shri Jethanand Vyas, and Principal Dr. Om Prakash Jakhar. Over 500 students participated in the lively garba dance, creating an electrifying atmosphere. Competitions like Best Male and Female Costume and Best Male and Female Dancer, along with surprise awards, added excitement to the festivities.

Shri Jethanand Vyas inspired students to embrace Maa Durga's nine virtues—patience, tolerance, devotion, strength, penance, courage, righteousness, purity, and accomplishment—emphasizing Navratri as a time for spiritual growth and self-transformation. Dr. Om Prakash Jakhar highlighted how such events energize students and foster cultural awareness to address contemporary challenges.

Event Coordinated by Dr. Shivangi Bissa and Dr. Indu Bhuria Meghwal, who thanked all participants, the event reflected meticulous planning. Dr. Ankur Goswami, SAC Coordinator, reiterated the college's commitment to blending progress with cultural roots. The evening concluded with awards for standout performers. *Navrang 2024* united the campus community, leaving lasting memories of cultural pride and inspiration.

The **Training and Placement Cell** at Engineering College Bikaner continues to play a pivotal role in bridging the gap between academia and industry. With a focused approach towards student development and corporate engagement under the headship of Dr. Richa Yadav, the college has witnessed significant placement success in recent years.

## 107 PLACEMENTS @ 4.5 PLA

We are proud to share that 107 **students** from Engineering College Bikaner have successfully secured placements through campus recruitment drives during the last two years of placement season with the average package of Rs. 4.5 LPA

## ROBUST CAMPUS DRIVES

Over 322 reputed companies approached for the campus placement in the year 2024–25, including Google, Tata Group, TCSBPS, Cisco, Amazon, IBM, Cognizant, Johnson Controls Hitachi Air conditioning, L&T Technology Services, British Petroleum, Microsoft, Wipro, Linkdin, Volkswagen group Solutions, NASSCOM, Motorola, Tech Mahindra, Adani Group, HCL Technologies, Pearson, Pepsico G.E Aerospace

## FACULTY AWARDS AND RECOGNITION



### ECB PRINCIPAL DR. OM PRAKASH JAKHAR HONORED

Dr. Om Prakash Jakhar, Principal of Engineering College Bikaner, was felicitated by Lions Club Bikaner with a shawl and citation for his exceptional academic contributions and creative administrative excellence. This honor by Lions Club Bikaner aims to celebrate teachers' outstanding contributions, recognizing those who enhance education quality and enrich students' lives through dedication.



### DR. NAVEEN SHARMA RECEIVED GOLD MEDAL FOR ACADEMIC EXCELLENCE

Dr. Naveen Sharma was awarded a gold medal by the Honorable Governor of Rajasthan, Shri Haribhau Kishanrao Bagde, for securing a merit position in M.Com (Business Management) from Maharaja Ganga Singh University, Bikaner. The university recognizes his outstanding performance, and this accolade serves as an inspiration for students pursuing higher education in the field of business management.

# FACULTY ACHIVEMENTS

## SCI PUBLICATIONS IN 2024-25



Issue 001

ECB Newsletter June-2025/ Vol. 01



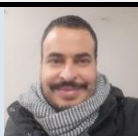
**Dr. O P Jakhar**

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**Dr. J P Bhamu**



**Dr. Ajay Chaudhary**

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**Dr. C S Rajoria**



**Dr. Mahendra Bhadu**

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**Dr. R S Rathore**



**Dr. Dharmendra Singh**

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**Dr. Vineet Kumar**



**Dr. Rekha Swami**

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	<table> <tr> <td>Name</td><td>TANUSHREE PAREEK</td></tr> <tr> <td>Batch</td><td>2008-2012</td></tr> <tr> <td>Branch</td><td>Electronics and Communication Engineering</td></tr> <tr> <td>Currently Placed</td><td>First women Combat officer , Border Security Forces, Govt. of India</td></tr> </table>	Name	TANUSHREE PAREEK	Batch	2008-2012	Branch	Electronics and Communication Engineering	Currently Placed	First women Combat officer , Border Security Forces, Govt. of India
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## ENGINEERING COLLEGE BIKANER

(A Constituent College of Bikaner Technical University, Bikaner)

### Contact Information

**Website:** [www.ecb.ac.in](http://www.ecb.ac.in)

**Address:** Engineering College Bikaner, Karni Industrial Area,  
Pugal Road, Bikaner 334004, Rajasthan, India

**Phone:** +91-9460038214 **Email:** [principal@ecb.ac.in](mailto:principal@ecb.ac.in)

