

B K Birla Institute of Engineering & Technology

Pilani-333031, Rajasthan, India

(An Industry-Oriented and Application-Driven Institute)

Approved by AICTE, New Delhi & Affiliated to Bikaner Technical University, Bikaner



Category "A" Institute as per QIV declared by Bikaner Technical University for Session 2020-21



Information Brochure

Artificial Intelligence | Computer Science and Engineering

Computer Science and Engineering (Data Science) | Electronics & Communication Engineering

Electronics Engineering (VLSI Design & Tech.) | Electrical Engineering | Information Technology

Our Foundation

B K Birla Institute of Engineering & Technology (BKBIET) is one of the premier industry-oriented and application-driven institutes in India.

BKBIET was established in 2007 by the renowned Industrialist and Philanthropist Late Shri Basant Kumar Birla as the Chairman under the aegis of Shree Krishnarpan Charity Trust.

BKBIET is approved by All India Council for Technical Education (AICTE), New Delhi and affiliated to Bikaner Technical University, Rajasthan, India.



Our Vision

Excel as an outstanding application- oriented and innovation- driven engineering institute. Inspire future Engineers to apply technology for solving real world challenges.

Our Mission

Create a platform for igniting ingenuity and path-breaking engineering applications for the India of future.

Our Quality Policy

The Institution has been true to its commitment in providing quality education in engineering and technology. Our strong alliances with the leading international universities, industries and professional bodies have increased access to latest education, opportunities for engagement and exchange, collaborative research and innovation for our students and faculties. We believe the best way to help students meet challenges is to provide a supportive and enriching environment.

Director's Message

I heartily welcome students, industry professionals and research institutions to BKBIET.

It gives great pride to mention that BKBIET has achieved an enviable national and international reputation for research, and teaching excellence in a short span of 16 years.

The Institute offers **Seven B. Tech Programs** (Artificial Intelligence, Computer Science and Engineering, Computer Science and Engineering (Data Science), Electronics & Communication Engineering, Electronics Engineering (VLSI Design and Technology), Electrical Engineering and Information Technology) and **Two M. Tech Programs** (Computer Science and Engineering, Electronics & Communication (VLSI Design)) . It aims to groom students into academically strong yet well-rounded personality-based professionals who could adapt themselves to the challenges posed by the ever-changing world and working environments.

Our strength is the highly qualified and dedicated faculty members and staff, deeply engaged in research work & scientific collaboration in national & international projects. Our students are very innovative and always eager to learn new concepts; they have demonstrated their capabilities and brilliance in many fields including securing internship in highly reputed international organizations.

In line with our vision and strategy for future, BKBIET will continue to drive for improvement. While reputation is important, we care as much about your individual experience as we do about our position on global scale. Explore the world through our industry-oriented and application-driven programmes.



Dr. Prasanna Kumar S M
Director, BKBIET

About Campus

Our students widely tell that one of the best things about studying at BKBIET is the on-campus experience. Our focus on residential living has helped to build a vibrant and diverse community, where one can find like-minded peers and make lifelong friends.

The 7.86 lakh square feet sprawling campus allows students to explore different ideas and ways of learning. It has modern classrooms, fully-equipped laboratories, expansive libraries, Cultural & creativity centre, Professional training & research centre, auditoriums, extensive indoor & outdoor sports facilities, gymnasium and medical Centre.



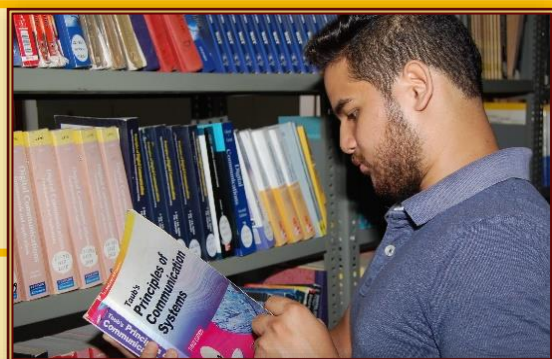
Laboratories

BKBIET offers state-of-art and hi-tech engineering laboratories where students can experiment and implement practically what they have learnt in theory classes . Laboratories at BKBIET:

• Electrical Lab	• Computer Lab & Artificial Intelligence Lab	• Microwave Lab
• DC Machine Lab	• Thermal Engineering Lab	• Wireless Communication Lab
• AC Machine Lab	• Power Electronics	• Fluid Mechanics & Machinery Lab
• Digital Electronics Lab	• Electric Drives Lab	• Measurement & Metrological Lab
• DSP Lab	• Power System Lab	• Material Science & Testing Lab
• Engineering Physics Lab	• Analog & Digital Communication Lab	• EDC Lab/Analog Electronics/LIC Lab
• Engineering Chemistry Lab	• Microprocessor/Microcontroller Lab	• Advance Power Electronics
• Mechatronics Lab	• Instrumentation & Measurement Lab	• Industrial Electronics Lab

Library

BKBIET has one **Issue Library** and two **Reference Libraries**. With adequately-stocked books, periodicals, references, educational CDs/DVDs, national and international journals, covering all aspects of academic studies and research materials, one can also access the National Digital Library. Libraries are air-conditioned and Wi-Fi-enabled.



In-campus Hostel and Medical Facilities

BKBIET has **separate hostels for girls and boys**, with total capacity of 1000 seats.

Caring wardens and vigilant 24x7 security ensure pleasant stay for students, allowing them to focus on academics.

In-house Mess facility, located adjacent to hostels, provides nutritious, hygienic and healthy food.

Even for those who leave their homes for the first time can be reassured that these hostels would eventually turn out to be their home away from home.

There is an on-campus arrangement of regular visit of a physician at **Medical centre** and a resident medical assistant. For major ailments, students are taken to nearby multi-specialty hospital in Pilani.



NCC, Sports and Co-curricular Activities

NCC (National Cadet Corps) provides opportunities to the youth for their all-round development with a sense of duty, commitment, dedication, discipline and moral values so that they become able leaders and responsible citizens.

We believe in providing energetic environment for holistic development of students.

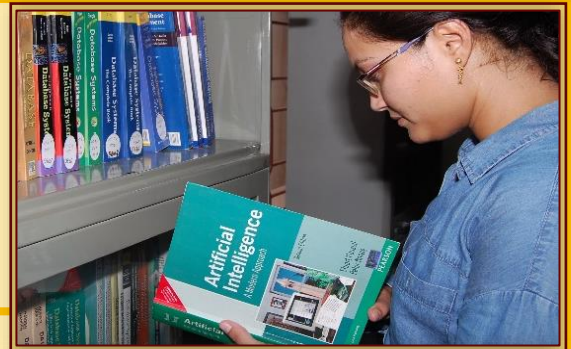
Outdoor sports facility including Cricket/ Football/ Athletics ground, Basketball court, Volleyball court, Tennis court and in-campus **Sports Complex** for **indoor sports** including Badminton, Table Tennis.

Students are also encouraged to join **in-campus clubs** - Photography, Dance, Music, Drama/Mime etc. Many students also take part in societal development works through various activity groups of the campus.



• Artificial Intelligence

Artificial Intelligence (AI) aims solely at creating intelligent machines. Artificial Intelligence has become a highly important part of the technology industry. Students learn about the core problems of AI which include the programming of computer systems for traits like reasoning, knowledge, perception, problem-solving, planning, learning, ability to move and manipulate objects, etc. Key areas of AI are Machine Learning, Neural Networks, Robotics, Expert Systems, Speech Processing, Natural Language Processing, Gaming, and Planning.



• Computer Science and Engineering **NBA Accredited (2021-24)**

Computer Science and Engineering (CSE) has its core in bringing in more innovations into technology while also going beyond the fundamentals. Computer Science and Engineering focuses on theory, algorithms programming languages, Virtualization, networking, databases, software engineering and quality, design of system and application software, cryptography and architectures. It involves various technology trends which are Artificial intelligence, Machine Learning, Cloud computing, Block chain, Cyber Security, Big data, IoT, Augmented and Virtual reality, Robotics and Automation etc.



• Computer Science and Engineering (Data Science)

Data Science is an emerging area and in high demand with tremendous applications. Data Science experts are needed now in almost every sector. A Data Science Engineer can build career as Data Scientist, Machine Learning Engineer, Application Architect, Business Intelligence Developer etc.



• Electronics & Communication Engineering

Electronics & Communication Engineering (ECE) deals with the broader aspects of engineering such as Digital and Analog design, VLSI, Industrial Electronics, Control System, FPGA, IoT, Embedded System design, Machine Learning, Artificial Intelligence, Wireless Communication, Microwave devices, Plasma Technology, Simulation tools like- Cadence, GHDL, Icarus Verilog, Arduino IDE, Scilab, Xilinx ISE, Quartus, LTspice etc.



• Electronics Engineering (VLSI Design and Technology)

VLSI (Very Large Scale Integration) design and technology refers to the process of designing and fabricating integrated circuits (ICs) . In VLSI design, engineers use computer-aided design (CAD) tools and techniques to design and simulate and optimize performance of electronic circuits. Its application areas include Consumer Electronics, Telecommunications, Medical Electronics, Internet of Things, Aerospace and Defense, Industrial Automation, Wearable Devices etc.



• Electrical Engineering

Electrical Engineering (EE) provides students with an understanding in the area of Electrical Power Generation, Transmission and Distribution, Power System Analysis, Machine Design, Power Electronics, Control System, Renewable Energy Technologies (Focus on Islanded/ Grid connected Solar PV System and Wind Power Generation), Smart Grid, Micro-grid, Energy Storage, Fuzzy Logic, Neural Network, Artificial Intelligence and various simulation tools. Professional Training and Research Center of the Institute has advanced Control Panels, Machine Control, Bearing Technologies and latest PLC-SCADA Lab.



• Information Technology

Information Technology(IT) makes students aware of the various ways computer and telecommunication equipment can be used to store, transmit and retrieve data, encompasses scripts, Networking, encryption and decryption of messages, database design and administration, Artificial intelligence, Cloud computing, Big data, Internet of things, Augmented and Virtual reality, Automation and edge computing.

Research & Development (R&D) Division

BKBIET established R&D division towards the formation of intellectual capital by facilitating research culture in the institute to mobilize the knowledge resources available for basic and applied research, support innovative projects and startup solutions. The research area covers all major academic disciplines including multidisciplinary research like MEMS/ NEMS technology, Plasma Engineering, Pulse Power, Bio engineering, Material Science and Embedded systems etc.

Birla Professional Training and Research Centre (BPTRC)

Birla Professional Training and Research Centre (BPTRC) at BKBIET provides the best quality research environment in multidisciplinary engineering and technology fields for various industrial and societal challenges. It facilitates the young students to become job creators with diversified employment opportunities instead of job seekers.

BKBIET Innovation Centre (BIC)

BKBIET Innovation Centre (BIC) at BKBIET promotes the spirit of research & development, entrepreneurs and startups in the Institute and contribute in Startup India Initiative by Indian Government. It is a budding initiative in line with virtual reality of digital and startup India.

E- Cell

E- Cell at BKBIET facilitates the students to be budding entrepreneurs with ready to use office space equipped with all necessary infrastructure, network connectivity and other facilities like meeting room, hi- tech laboratories, extensive computing resources for research and development including high-performance computers etc.

International Collaborations

To offer our students global exposure, we have also entered into academic collaborations with the following international universities for internships, higher studies, student exchange, faculty exchange, joint research initiatives and publications:

- Universite de Nantes, Polytech, Nantes, France
- INSA de Strasbourg, France
- INSA Rennes, France
- Universite de Haute – Alsace, France
- INSA-Rouen Normandie, France
- Universite de Poitiers, France
- EISTI, France
- EPF School of Engineering, France
- Thammasat University, Bangkok, Thailand
- Bangkok University, Thailand
- King Mongkut’s University of Technology, Thonburi, Thailand
- King Mongkut’s Institute of Technology, Ladkrabang, Thailand

BKBIET International Relations Division (BIRD)

BKBIET International Relations Division (BIRD) at BKBIET was established in the year 2011, with the objective of encouraging students to embrace global exposure.

BIRD facilitates internships, research options and job opportunities abroad, in the fields of Engineering and Technology, for students after completion of bachelor’s degree. Also provides Counselling on higher education, guidance in Visa, and Scholarships formalities .

Many scholarships are also available for students through n+ i :

- Eiffel Scholarship
- Pays de Loire Region
- n+i Grants
- Ile-de-France
- Limousin Region
- Institutional Grant’s on Tuition Fees
- Charpak Scholarship
- Picardie Region



On-campus Industrial Training

At Birla Professional Training & Research Centre (BPTRC), students get trained in the fields of engineering and technology. While becoming industry-ready, students gain exposures in scientific research here.

Internship: Our students undergo industrial training/ internship programme in reputed organisations. Students also get benefit from the academic collaborations with international Universities (France and Thailand).

Training & Placement Cell

Training & Placement Cell continuously works towards developing employability skills in the students. Interactions with leading industry experts are conducted on a regular basis wherein eminent speakers share their experiences with our students. Our training methodology includes presentations, live projects, educational and industrial tours, Seminars as well as Engineering Chapter Activities, Aptitude tests, Extempore, Mock Group discussions and Personal Interview to groom our students.

Placement Highlights of Batch 2023

Number of Companies	80 +
Job offers	130 +
Highest Package offered	36 LPA
Average Package	5.5 LPA
Recruiters above 8 LPA package	12
Recruiters with 5 - 8 LPA package	26
Recruiters with 3 - 5 LPA package	41

Unveiling Brilliance



Maya Chahar
Secured **54th Rank** in Civil Services Exam 2023
Branch: EEE
Batch: 2011-15



Prerna
Secured **1st Rank** in University Examinations (Gold Medal)
Branch: IT
Batch: 2018-22



Manish Kumar
Secured **1st Rank** in University Examinations (Gold Medal)
Branch: ME
Batch: 2018-22



Our Recruiters



Admission Procedure and Eligibility Criteria

Undergraduate and Postgraduate Programs

Undergraduate Programs (B. Tech)	Seats
Artificial Intelligence	60
Computer Science and Engineering	120
Computer Science and Engineering (Data Science)	60
Electronics & Communication Engineering	60
Electronics Engineering (VLSI Design & Technology)	60
Electrical Engineering	60
Information Technology	60

Postgraduate Programs (M. Tech)	Seats
Computer Science and Engineering	18
Electronics and Communication (VLSI Design)	18

REAP Code: 1049

Admission Procedure (REAP/ Direct)

CEG (Centre for Electronic Governance), Jaipur conducts the centralized counselling for admissions to B. Tech 1st year programmes through REAP (Rajasthan Engineering Admission Process).

As per CEG REAP, **Priority order** is, **1st**: JEE (Mains) Rank, **2nd**: Percentile in class 12th and having Physics and Mathematics, **3rd** : Percentile in class 12th and having Physics or Mathematics, **4th** : Percentage of Diploma in Engineering & Technology approved by state government.

Eligibility Criteria

Aspirant must have passed class 12th examination with Physics and/or Mathematics as compulsory subjects along with Chemistry/ Computer Science/ Electronics/ Information Technology/ Biology/ Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/ Entrepreneurship (Any of the three) Obtained at least **45% marks (40% marks in case of candidates belonging to reserved category)** in the above subjects taken together.

OR

Passed minimum 3 years Diploma examination with at least **45% marks (40% marks in case of candidates belonging to reserved category)** subject to vacancies in the First Year, in case the vacancies at lateral entry are exhausted.

Lateral Entry in Engineering Program (LEEP)

Lateral Entry in Engineering Program (LEEP) is a process for Polytechnic diploma or B.Sc. Students (with Mathematics) to get admission direct in the 2nd year of engineering programs in various Technical Institutions of Rajasthan affiliated to BTU, Bikaner and RTU, Kota. BKBIET offers B. Tech LEEP admissions in the following courses:

Artificial Intelligence	Electronics Engineering (VLSI Design & Technology)
Computer Science and Engineering	Electrical Engineering
Computer Science and Engineering (Data Science)	Information Technology
Electronics & Communication Engineering	

Admission Procedure

Board of Technical Education Rajasthan (BTER), Jodhpur conducts centralized counselling for admissions to B. Tech 2nd year programmes through LEEP (Lateral Entry in Engineering Program), on the basis of polytechnic diploma marks or B.Sc. Degree marks.

Eligibility Criteria

The aspiring candidate must have passed polytechnic diploma and/or B.Sc. degree (with Mathematics) with at least **45% aggregate marks (40% marks for candidates belonging to reserved category of Rajasthan State)** from the Board of Technical Education Rajasthan (BTER), Jodhpur/ an AICTE approved Institution/ UGC Approved University.

BKBIET Bank Account Details

Account Name	BK Birla Institute of Engineering and Technology	Account Type	Savings
Account Number	153801000110	IFSC Code	ICIC0001538
Bank Name	ICICI Bank	Branch Name	Pilani

Scholarships

To encourage meritorious students, institute provides and help them with following scholarships :

- Sarala Birla Memorial Scholarships
- IJMOT Scholarships
- National Scholarship Scheme
- International Scholarships
- Pragati Scholarship Scheme for girls student
- Tuition Fee Waiver Scheme (TFWS)
- Birla Education Trust, Pilani Scholarships
- Social Justice Empowerment Scheme
- Prime Minister's Special Scholarship Scheme (PMSSS) for J&K and Ladakh students

Student Chapters

Student Chapters enable students to keep themselves updated through workshops, seminars, quizzes and other technical activities.

- **IEEE** - Institute of Electrical and Electronics Engineers
- **IETE** - Institution of Electronics & Telecommunication Engineers
- **IEI** - Institution of Engineers (India)
- **GDSC** - Google Developer Student Club
- **CSI** - Computer Society of India
- **ACM** - Association for Computing Machinery
- **ASME** - American Society of Mechanical Engineers
- **IFERP** - Institute For Engineering Research and Publication
- **Hack Club**
- **NIRMAAN-BKBIET**



B K Birla Institute of Engineering & Technology

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