

B K Birla Institute of Engineering & Technology Pilani, Rajasthan

An Industry-Oriented and Application-Driven Institute

Approved by All India Council for Technical Education (AICTE)
Affiliated to Bikaner Technical University (BTU)



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



**Information Brochure
2021-22**

**Artificial Intelligence | Computer Science and Engineering | Electrical Engineering
Electronics & Communication Engineering | Information Technology | Mechanical Engineering**

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, Bikaner.



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 14 years.

The Institute offers Six B. Tech Programs (Artificial Intelligence, Computer Science and Engineering, Electronics & Communication Engineering, Electrical Engineering, Information Technology and Mechanical Engineering) . 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 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

We offer state-of-art and hi-tech engineering laboratories where students can experiment and practise what they have learnt in theory. Laboratories at BKBIET:

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|-----------------------------|--------------------------------------|--------------------------------------|
| • Electrical Lab | • Computer 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 24×7 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.

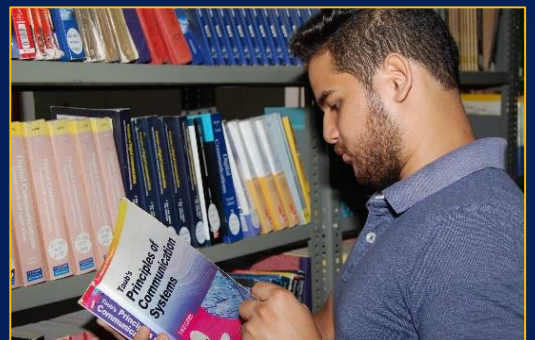
NCC, Sports and Co-curricular Activities

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 (AI)

Artificial Intelligence branch 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 (CSE) **NBA Accredited (2021-24)**

Computer Science and Engineering 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, Internet of things, augmented and virtual reality, Robotic process automation etc.

Electronics & Communication Engineering (ECE)

Electronics & Communication Engineering 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.

Electrical Engineering (EE)

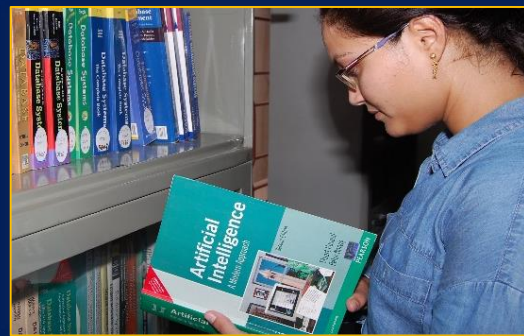
Electrical Engineering provides students with an understanding in the area of Electrical Power Generation, Transmission and Distribution, Power System Analysis, Machine Design, Power Electronics, Control System, Renewable Energy Technologies (Focus on Islanded/ Grid connected Solar PV System and Wind 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 (IT)

Information Technology makes students aware of the various ways computer and telecommunication equipment can be used to store, transmit and retrieve data, encompasses scripts, communication, encryption and decryption of messages, database design and administration, Artificial intelligence, Cloud computing, big data, Internet of things, augmented and virtual reality, Robotic process automation and edge computing.

Mechanical Engineering (ME)

Mechanical Engineering helps students become familiar with the application of techniques of engineering into design, manufacturing and maintenance while also understanding some core concepts such as - Thermodynamics, Mechanics, Mechatronics, IIoT (Industrial Internet of Things), 3D/4D/5D Printing Technology, Robotics, Simulation tools like- 3D CAD, Solid Works, ANSYS, CATIA etc.



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)

BKBIET started Birla Professional Training and Research Centre (BPTRC) to provide 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 inaugurated BKBIET Innovation Centre (BIC) on 7th Dec 2016 to promote startups and contribute in Startup India Initiative by Indian Government.

The objective of the BIC Centre in BKBIET is to promote the spirit of research & development, entrepreneurship and startups in the Institute. It is a budding initiative in line with virtual reality of digital and startup India.

E- Cell

E- Cell facilitates with ready to use office space equipped with all necessary infrastructure, network connectivity and other facilities like meeting room, hi-tech labs, etc. We provide extensive computing resources for research and development education. It includes high- performance computers in the range of latest versions of operating systems like Linux, Windows 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 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
- 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) was inaugurated in 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 | • Ile-de-France | • Charpak Scholarship |
| • Pays de Loire Region | • Limousin Region | • Picardie Region |
| • n+i Grants | • Institutional Grant's on Tuition Fees | |



Training & Placements

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 you gain exposures in scientific research here.

Internship: Our students undergo industrial training/ internship programme in reputed organisations. Students also get benefit also from our tie-ups 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 are organized to groom our students.

Placement Highlights

For the Batch 2021, more than **90 companies** came up with job opportunities. BKBIET students, received more than **130+ job offers** this year. The placement has always been on the upswing since the inception of the Institute, students of BKBIET received job offers from reputed organizations across versatile domains like Information Technology & Services, E-learning, Logistics & Supply Chain and Electrical/Electronic Manufacturing.

- Highest Number of Companies Visited: **90 +**
- The highest package offered: **10 LPA**
- **5** Students with **10 LPA** and above offers
- Highest Average Package: **5 LPA**
- **4** Recruiters with more than **10 LPA** Package, **33** Recruiters with **5- 10 LPA** package, **41** Recruiters with **3-5 LPA** package.

Highest
Package
offered
10 LPA

Average
Package
offered
5 LPA

Minimum
Package
offered
3 LPA



Few of our recruiters

jaro education®



GRAMPOWER



ADITYA BIRLA GROUP



HexaView

Infosys®



INFO
OBJECTS

cādence

SECURE

BYJU'S
The Learning App



uCertify

TATA
CONSULTANCY SERVICES

Capgemini
CONSULTING TECHNOLOGY OUTSOURCING



Avisol

Genus
energizing lives

Cognizant

Truechip
The Verification IP Specialist

OPTUM

Liferay

mirketa

B. Tech. First Year Program (REAP- 2021)

We offer Six undergraduate B. Tech courses:

Artificial Intelligence	60 Seats
Computer Science and Engineering	120 Seats
Electronics & Communication Engineering	60 Seats
Electrical Engineering	60 Seats
Information Technology	60 Seats
Mechanical Engineering	60 Seats

REAP Code
1049

Admission Procedure

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 **1st Preference**: Scaled Percentage/Percentile in class 12th Science **2nd Preference**: Percentage of Diploma in Engineering & Technology approved by state government.

Eligibility Criteria

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

OR

Passed Diploma (in Engineering and Technology) 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-2021)

**Computer Science and Engineering | Electronics & Communication Engineering | Electrical Engineering
Information Technology | Mechanical Engineering | Artificial Intelligence**

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% for SC/ ST/ OBC-NCL / MBC-NCL candidates of Rajasthan State) from the Board of Technical Education Rajasthan (BTER), Jodhpur/ an AICTE approved Institution/ UGC Approved University.

Fee Structure

I SEMESTER		II SEMESTER	
Tuition Fee	28,000/-	Tuition Fee	28,000/-
Institute Development Fee	10,500/-	Institute Development Fee	10,500/-
Facilities & Activities	500/-	Facilities & Activities	500/-
TOTAL:	39,000/-	TOTAL:	39,000/-

* BTU Development Fee, Examination Fee and Refundable Security Fee will be additional.

* For Computer Science and Engineering Course (NBA Accredited) fee will be Rs. 3000 additional per year.

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 or Forums enable student members to keep themselves updated through workshops, seminars, quizzes and other technical activities.

IEEE	Institute of Electrical and Electronics Engineers
IETE	Institution of Electronics and Telecommunication Engineers
CSI	Computer Society of India
ACM	Association for Computing Machinery
IEI	Institution of Engineers (India)
ASME	American Society of Mechanical Engineers
IFERP	Institute For Engineering Research and Publication

BKBIET Account Details

Registration Fee (non-refundable) to be payable Online (IMPS/ NEFT).

For Manual NEFT, please visit your nearest bank.

BKBIET Bank Account Details:

Account Name : BK Birla Institute of Engineering and Technology

Account Number : 153801000110

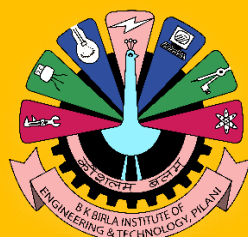
Bank Name : ICICI Bank

Branch Name : Pilani

Account Type : Savings

IFSC Code : ICIC0001538

*For support in filling up Registration Forms, contact Admission Cell



B K Birla Institute of Engineering & Technology

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