B K Birla Institute of Engineering & Technology
Pilani, Rajasthan

An Industry-Oriented and Application-Driven Institute

Approved by All India Council for Technical Education
Affiliated to Bikaner Technical University

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

Information Brochure
2020-21

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 13 years.

The Institute takes pride in introducing B. Tech Artificial Intelligence Engineering from coming session 2020-21. 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.
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:

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

Hostels

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 Birla Sarvajanik Hospital in Pilani.

Sports and Co-curricular Activities

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. The growing demand for AI course has significantly increased in the past few years. Students pursue the courses to 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, Evolutionary Computation, Vision, Robotics, Expert Systems, Speech Processing, Natural Language Processing, Gaming, and Planning.

Computer Science and Engineering (CSE)

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, visualization, 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 and edge computing.

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)


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.
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 of 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
- Pays de Loire Region
- n+i Grants
- 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 you gain exposures in scientific research here.

Internship: Our students undergo eight-week industrial training/internship programme in reputed organisations. Students also get benefit also from our tie-ups with international Universities (France and Thailand).

Placements

Training & Placement Cell continuously works towards developing employability skills in the students. Interactions with leading industry experts are conducted on a regular basis where 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 interviews are organized to groom our students.

Placement Highlights Batch 2020

For Batch 2020, 58 companies came up with job opportunities. BKBIET students received more than 105+ job offers this year. Over the years, students of BKBIET received job offers from reputed organizations across industries and across the country.

- Placement in Fortune 500 Company - Optum A United Health Group Company.
- 8 students have been shortlisted for Indian Navy SSB round through UES campus interviews.
- Indian Navy visited consecutively third year this time.
- 17 Students with Multiple offers
- Girls placement ratio 41.12% of total offers.
- Recruiters from 19 different sectors visited this year.
- 3 Recruiters with more than 10 LPA package. 5 Recruiters with 5 to 10 LPA package. 30 Recruiters with 3 to 5 LPA package.

Highest Package 12.02 LPA
Average Package 4.20 LPA
Median Package 3.60 LPA

Few of our recruiters

![Company Logos]
We offer Six undergraduate B. Tech programmes:

<table>
<thead>
<tr>
<th>Programme</th>
<th>Seats</th>
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<tbody>
<tr>
<td>Artificial Intelligence</td>
<td>60</td>
</tr>
<tr>
<td>Computer Science and Engineering</td>
<td>120</td>
</tr>
<tr>
<td>Electronics &amp; Communication Engineering</td>
<td>60</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>60</td>
</tr>
<tr>
<td>Information Technology</td>
<td>60</td>
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<td>Mechanical Engineering</td>
<td>60</td>
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Centre for Electronic Governance (CEG), 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. [CEG REAP Registration Website](http://www.cegreap2020.com/)

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.

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.

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

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<tr>
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<th>I SEMESTER</th>
<th>II SEMESTER</th>
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<tbody>
<tr>
<td>Tuition Fee</td>
<td>28,000/-</td>
<td>28,000/-</td>
</tr>
<tr>
<td>Institute Development Fee</td>
<td>10,500/-</td>
<td>10,500/-</td>
</tr>
<tr>
<td>Facilities &amp; Activities</td>
<td>500/-</td>
<td>500/-</td>
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<tr>
<td><strong>TOTAL:</strong></td>
<td>39,000/-</td>
<td><strong>TOTAL:</strong> 39,000/-</td>
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*BTU Development Fee, Examination Fee and Refundable Security Fee will be additional.*
To encourage merit, sincerity and hard work in our students, we provide and help them with following scholarships:

- Tuition Fee Waiver Scheme (TFWS)
- Sarala Birla Memorial Scholarships
- IJMOT Scholarships
- Birla Education Trust, Pilani Scholarships
- International Scholarships
- Government Scholarships
- Kashmiri Migrants Scholarship (KM)
- Prime Minister’s Special Scholarship Scheme for J&K students (PMSSS)

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*

Contact Us

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<thead>
<tr>
<th>Role</th>
<th>Email</th>
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<tbody>
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<td>Dr. Prasanna Kumar S M, Director</td>
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