

PROSPECTUS



Estd. 1999

BIRBHUM INSTITUTE OF ENGINEERING & TECHNOLOGY (BIET)

AICTE Approved, MAKAUT (previously WBUT) Affiliated
A TEQIP-II [an MHRD (Govt. of India) and World Bank Initiative] funded institute

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JOURNEY OF BIET

1998

Indian Center for Advancement of Research and Education, Birbhum (ICARE) was set up on 27th August, 1998 as a non-profit making voluntary organization. The above Society was registered with registration No.S/91361 of 1998-1999 under West Bengal Act XXVI of 1961.



Shri Somnath Chatterjee



Shri Pranab Mukherjee

The organization started its journey under the chairmanship of Shri Somnath Chatterjee, Speaker of the 14th Lok Sabha and the Vice Chairmanship of Shri Pranab Mukherjee, Ex-Finance Minister, Government of India, Ex-President of India

ICARE is solely dedicated to promote, establish, run and maintain educational institutions of excellence for development of infrastructural facilities at Birbhum in the field of education to keep pace with the rapid industrial development in this region.

1999

Birbhum Institute of Engineering & Technology (BIET) got established by ICARE under the Chairmanship of Legendary Indologist and Educationist Professor Padmashri Late Ramaranjan Mukherji .

The institute is being run as a non-profit organization with active guidance from eminent academicians and personalities. The institute believes that education is the manifestation of the perfection already in man. This is an institute which is governed by reputed academicians and well-known social workers.



Shri Ramaranjan Mukherji



VISION

To create an institution for higher technical education, dedicated to the cause of developing professionals with high sense of ethical values and commitment to the society, where students shall realise their potentials and learn to be future torch bearers of evolving technologies, through inculcation of proper attitude, appropriation of traditions and heritage and fostering of originality, so as to be capable of functioning without being influenced by malice of caste, creed, political and religious dogmas.

MISSION

To impart quality professional / technical education to students inculcating in them national / global perspective, leadership attitude, entrepreneurship, co-operative spirit, cultured outlook, ethical values, social responsibilities and healthy habits so as to contribute to the technological, economic and social development of the region, the state and the country and to create an ambience of excellence, inspiring value based education research and development through

- ▶ Creation of conducive learning atmosphere that gives a cutting edge and appropriate technical proficiency to the students for facing future global challenges.
- ▶ Inclusion of value based education through fostering of dedication in staff and motivating students.
- ▶ Development of state-of-the-art technologies through research and development and to apply them to social problems.
- ▶ Creation of effective interface with industry and community to impart quality education at par with the best in the country and the world
- ▶ Promoting research activities in the fields of emerging technologies
- ▶ Creating awareness for and transfer of technology to rural mass
- ▶ Strengthening industry- institutional interaction
- ▶ Establishing linkages with national and international institutions of repute



Prof. (Dr.) G. C. Debnath

B.E., M.C.E. (J.U.), Ph. D. (Cal.), M.ISTE
F.I.S.E., F.I.G.S, F.I.E, C. Engr. (India)
Former Director of Technical Education
Govt. Of West Bengal



FROM THE DESK OF CHAIRMAN

Birbhum Institute of Engineering & Technology, Suri, was setup in the year of 1999 in the culturally rich district of Birbhum, West Bengal in the bank of river Mayurakshi. After assuming responsibility of the Chairman, Board of Governors my first priority was to impart the best technical education to the students of this institute and at the same time to improve overall teaching-learning atmosphere of the institute so that students can become very good engineers and good citizens of the country.

Prof. (Dr.) G. C. Debnath

Chairman

Birbhum Institute of Engineering and Technology



Prof. Amitabha Sinha

Ph.D (IIT Delhi), FIE (I)

Director

Birbhum Institute of Engineering and Technology

FROM THE DESK OF DIRECTOR

We incorporate our vision in our culmination, integrity, excellence and magnanimity. Our mission is not just running an Institution and offering placement, we strive to be an excellent Institution of higher education.

Ensuring high quality specialized technical education to students from all sections of the society. Birbhum Institute of Engineering and Technology is having gradual influence on Suri (the District town) and the whole District of Birbhum in socio-economic and cultural ways. People have appreciated various socio-cultural initiatives.

As a member of BIET family I am absolutely certain that to create an ideal academic environment of the country our beloved and esteemed Institution Birbhum Institute of Engineering and Technology will fuel the journey to the future by the enhancement of the quality of teaching and learning. To be a modern Institution with efficient, dedicated, student friendly staff we are providing brilliant engineers from our Institution for the rapid development of our nation and for building up also good relationship and co-operation with the corporate. The Institute, aimed at all round development of students, produces able technocrats to meet the challenges of the fiercely competitive world. We welcome students to make use of this grand platform and be a proud BIETian.

I wish the very best and all success of this Institute and I strongly believe that our beloved BIET will prosper in days to come.

Prof. Amitabha Sinha

Director

Birbhum Institute of Engineering and Technology

GOVERNING BODY



Prof. (Dr.) G.C. Debnath Former Director of Technical Education, Government of West Bengal	Chairperson
Shri Bikash Roy Chowdhury Sabhadhipati, Birbhum Zilla Parishad, Suri	Member (Ex-Officio)
Shri P. Mohangandhi, I.A.S. District Magistrate Birbhum, W.B.	Member (Ex-Officio)
Director/Nominee, Directorate of Technical Education, Government of West Bengal	Member (Ex-Officio)
Eastern Regional Officer All India Council for Technical Education, Kolkata	Member (Ex-Officio)
Prof. (Dr.) Parthasarathi Mukhopadhyay Principal, Birbhum Mahavidyalaya, Suri, Birbhum	Member
Prof. Tushar Kanti Bose Retd. Professor, Suri Vidyasagar College, Suri, Birbhum	Member
Shri Bidyut Majumdar Head Master, Chinpai High School, Birbhum	Member
Shri Apurba Mondal Former Karmadhyaksha, Birbhum Zilla Parishad	Member
Dr. Gokul Mukherjee Retired Vice-Chairman, Steel Authority of India Ltd.	Member
Shri Sushil Chowdhury General Secretary, The Federation of All India Rice Millers' Association And Acting President, Bengal Rice Mills Association.	Member
Sri Puspendu Sen GENERAL MANAGER, Bakreswar Thermal Power Plant	Member (Ex-Officio)
Shri Rebati Bhattacharya Ex-Chairman, West Bengal Essential Commodities Supply Corporation Limited	Member
Shri Uttam Kumar Ghosh Associate Professor, Dept. of Electronics and Communication Engineering, Faculty representative nominated by ICARE	Member
Dr. Rajdoot Mukhopadhyay Assistant Professor, Dept. of Humanities, Faculty representative nominated by ICARE	Member
Prof. Amitabha Sinha Director, B.I.E.T., Suri	Member Secretary (Ex-Officio)





PROGRAMMES

The courses taught by Birbhum Institute of Engineering & Technology are approved by the AICTE. The college is affiliated to MAKAUT (formerly WBUT), Kolkata. The institute runs the following full time courses in the field of Engineering

INTAKE UG

60

seats

**Computer Science
and Engineering**

60

seats

**Electronics &
Communication
Engineering**

60

seats

**Electrical
Engineering**

120

seats

Civil Engineering

120

seats

Mechanical Engineering

POST GRADUATE PG

(In Mechanical Engineering)

18

seats

**Heat Power
Engineering**

18

seats

**Manufacturing
Engineering**



ADMISSION PROCESS

UNDER GRADUATE (UG)

As per the regulations of the West Bengal University of Technology and All India Council for Technical Education norms, an applicant for the admission to B.Tech Degree course must have passed or appeared in 10+2 (Higher Secondary or equivalent examination) with English and with 45% marks (40% for SC/ST/PwD/OBC candidates) in Physics and Mathematics (Compulsory) along with Chemistry/Biochemistry/Biology/Technical Vocational Subjects (Engineering Drawing/Computer Science) taken together for being eligible.

If at the time of admission the results of 10 + 2 (Higher Secondary or equivalent examination) are not declared, the applicant has to give an undertaking that if he/she fails to fulfill the above said admission criteria, he/she will withdraw his/her name from the Institution.

Admission to any course will be made on the basis of the

merit list from the Joint Entrance Examination (JEE) for Engineering, conducted by West Bengal Board of examination for admission to Engineering Degree Colleges or through merit list of All India Engineering Entrance Examination (A.I.E.E.E.) conducted by the Central Board of Higher Secondary Examination.

LATERAL ENTRY

Bachelor of Technology (B.Tech) - Lateral Entry course is also offered by BIET, Suri. The Lateral Entry program enables candidates with a 3 years diploma in engineering or an equivalent degree to get admitted directly to 2nd Year (3rd semester). Eligibility is as per university guideline

POST GRADUATE (PG)

GATE or PGET & Interview



FINANCIAL AID

The institute is a nonprofit making organization with an objective of providing engineering & technical education to the future engineers and technocrats at a very much affordable cost without compromising the quality of education. The institute has its strong focus on that the economic condition of a candidate should not be an obstacle to receive quality education. The institute is providing various scholarships and loan facilities to its students.



SCHOLARSHIP

SCHOLARSHIP for fresh under graduate students:

- ▶ 50% reduction on tuition fee with general rank holders upto 25,000 in WBJEE and 3,00,000 in JEE (main) along with 60% in 10th and 12th passed out from any recognized board.
- ▶ The students can also apply for various other scholarship schemes available from Govt. & other private organizations.



LOAN

Since the institute is affiliated to MAKAUT and all the courses are approved by AICTE, one can easily avail educational loan from any nationalized or private banks. The institute provides active end-to-end guidance to get the loan. Due to the reputation of long time and placement records banks do not hesitate to provide hassle free loan to the students of this institute.

SPECIAL FEE PACKAGE

The institute offers special fee package for lateral entry.



DEPARTMENTS



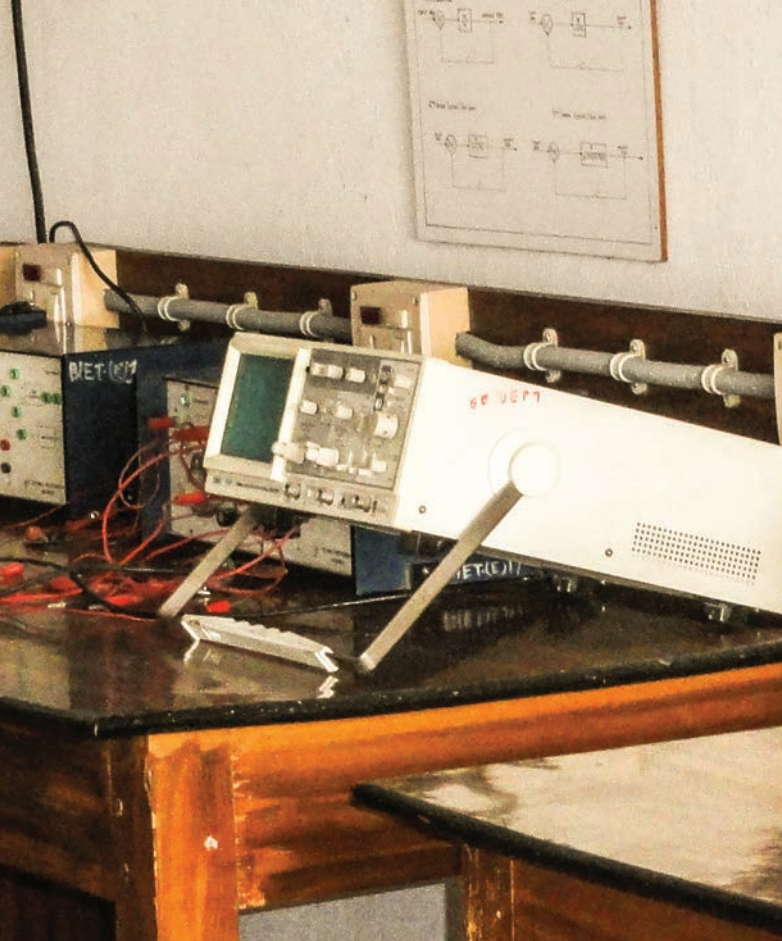
COMPUTER SCIENCE & ENGINEERING

LABORATORY FACILITIES

CSE has 7 laboratories with enough dedicated desktops fully installed with all relevant software & tools

- ▶ CSE Laboratory - 1
- ▶ CSE Laboratory - 2
- ▶ CSE Laboratory - 3
- ▶ CSE Laboratory - 4
- ▶ CSE Laboratory - 5
- ▶ Computer Organization Laboratory
- ▶ Project Laboratory





ELECTRONICS & COMMUNICATION

LABORATORY FACILITIES

ECE has 9 laboratories with enough computers with advanced tools and modern equipment

- ▶ Basic Electronics Engineering Laboratory
- ▶ Analog Electronics Circuits Laboratory
- ▶ Digital Electronics Circuits Laboratory
- ▶ Communication Engineering Laboratory
- ▶ Microprocessor & Microcontroller Laboratory
- ▶ Microwave Engineering Laboratory
- ▶ Computer Simulation Laboratory I & II
- ▶ Advance Communication Laboratory
- ▶ Project Laboratory



ELECTRICAL ENGINEERING

LABORATORY FACILITIES

EE has 10 laboratories with enough computers with advanced tools and modern equipment

- ▶ Basic Electrical Laboratory
- ▶ Electrical Measurement Laboratory
- ▶ Electrical Circuit Theory Laboratory
- ▶ Electrical Machine Laboratory
- ▶ Electrical Control System Laboratory
- ▶ Electrical Power System Laboratory
- ▶ Electrical Power Electronics Laboratory
- ▶ Electrical Advanced Control System Laboratory
- ▶ Electrical Systems Design Laboratory I & II
- ▶ Electrical Drives Laboratory





CIVIL ENGINEERING

LABORATORY FACILITIES

CE has 7 laboratories with enough computers with advanced tools and modern equipment

- ▶ Civil Engineering Laboratory
- ▶ Soil Mechanics Laboratory
- ▶ Environmental Laboratory
- ▶ High Way Engineering Laboratory
- ▶ Survey Practice
- ▶ Computer Application In Civil Engineering
- ▶ Geology Laboratory



MECHANICAL ENGINEERING

LABORATORY FACILITIES

ME has 18 laboratories with enough computers with advanced tools and modern equipment

- ▶ Hydraulics Laboratory
- ▶ Strength of Material and Applied Mechanics Laboratory
- ▶ Manufacturing Process Laboratory
- ▶ Machining Technology Laboratory
- ▶ Workshop Practice Laboratory
- ▶ Advanced Manufacturing Laboratory
- ▶ Dynamics of Machines Laboratory
- ▶ Design Practice Laboratory I & II
- ▶ Measurements and Instrumentation Laboratory
- ▶ Thermal Engineering Laboratory I & II
- ▶ Computational Fluid Dynamics(CFD) Laboratory
- ▶ Research Laboratory I & II
- ▶ Refrigeration & Air-conditioning Laboratory
- ▶ Machine Drawing Laboratory I & II
- ▶ Mechatronics Laboratory
- ▶ Engineering Graphics Laboratory
- ▶ Applied Fluid Mechanics Laboratory
- ▶ I.C. Engine Laboratory



ALUMNI SPEAKS



field of choice. There I found many opportunities to learn & improve my technical concepts. I have learned a lot from my professors, to whom I am truly thankful. Beside study, there was lots of fun filled activities which I still cherish.

Dr. Surajit Kumar Paul

Assistant Professor
Department of Mechanical Engineering
Indian Institute of Technology Patna



“ It is my pleasure to get an opportunity to write something about my beautiful college BIET, Suri. Those days, during my study of Mechanical Engineering at BIET are unforgettable and in fact those days are most fruitful days of my life. My experience in the college has given me the chance to enhance my skills in my



date. Hope BIET will continue to ignite the spark of higher education for years with its prestigious

Arindam Bhattacharjee

Sr. Divisional Engineer (Electrical)
Durgapur Thermal Power Station,
Damodar Valley Corporation (DVC).

“ It is very nostalgic to write about BIET. About seventeen years ago we entered our college with a big dream in our eyes. All the faculties and non-faculties of my college have gradually given shape to our dreams with limited resources and amicable atmosphere. Most of all, BIET gave us a lot of friends having golden heart and unconditional faith, which not even faded till



shaping process the only aim of this institution as a whole was committed for making us what we are and the result is that we're already learning to adapt the knowledge and understandings that we've picked up to actual problems and issues. I should thank those dedicated teachers who make me where i am now.

Prasenjit Adhikary

Software Developer
National Informatics Center
Govt of India

“ I would like to specially highlight that, this environment of BIET turned out as the potters and we stood as mere clay and we were wonderfully shaped into fine pieces of art work. The shaping process was hard and long. Our knowledge and skills were stretched and tested at many points. But in all those stretching, pulling and



sheer devotion and hard work, some of the most incredible faculties with minimum accessible resources imbibed in me the spirit to search for the cause and understand its effect. Situated on the banks of Mayurakhi river, BIET has also provided an opportunity to rejuvenate my outlook towards harmony with nature, which has imprinted in my mind the way to live life with a definitive purpose.

Jhon Paul (2006 - to present)

Recipient of Young Scientist Award for Outstanding Contributions of Composite Technology for Space Scientist /Enggr -SF
Vikram Sarabhai Space Centre, Trivandrum
Indian Space Research Organization.

“ My nostalgic experiences during my study of Mechanical Engineering at BIET, SURI have been the most cherishable moments of my life. The transformation in my thinking towards adoption & execution of scientific principles for problem solving evolved due to untiring efforts put by the faculties of the Institute. Over the course of this program, due to their



“ The best part of my life was that 4 years which i have spent in the campus of BIET.I still remember whenever a problem has arised regarding academics or extra academics i have always found solutions from my faculties as well as seniors. I am thankful to my college for providing me a platform like

Sparsh (The social welfare wing of BIET) which let me work for the society and to gain the societal values as well.

Best Wishes!!



Ankit Keshri

Dept. of Civil Engineering
2012-2016 Batch

EDUCATIONAL INFRASTRUCTURE

The institute is spread over 30 acres of green beautiful land with 18,000 sq. meter of total building area for teaching and administrative block. The place is away from air & noise pollution and very much conducive for learning, teaching and research work.

86+

Full-Time Faculty Members

56+

Laboratories with modern equipment & facilities

10+

Workshops



LIBRARY

The institute provides air-conditioned Digital Library and reading room for the students & its staff. The library is loaded with all relevant books & journals for the related subjects. Along with the regular books the institute provides digital learning by means of e-books & journals with web and video based courses.

60,000+

Books

5000

Titles

3000

E-books

15000

E-journal

126

Web Course

274

Video Course

To enhance the study the institute allows a student to borrow 6 books at a time. This helps the students in consulting several books and the load of buying books is also minimized. The library also provides reprographics centre for students so that they can easily get the photocopy facilities and do not need to go outside.



WORKSHOP

The institute hosts state-of-the-art workshop facilities for:

Welding	Milling	Forging
Fitting	Shaping	Carpentry
Lathe	Moulding	
Grinding	Concrete Technology	



LANGUAGE LAB

Considering the need of improvement of communication, the institute hosts a Language Lab for the students with modern audio-visual systems and software.

This lab is used for:

General Communication & Skill Development
Online Test
Phonology
Group Discussion



FACILITIES

STUDENTS INTERACTION

This institute gives the process of students-teachers' interaction the highest priority.

- ▶ Zero Tolerance to Ragging
- ▶ Institutional Anti ragging Committee & Anti Ragging Squad
- ▶ Hostel visit at night on regular basis
- ▶ Grievance redressal Cell for students

BUS SERVICE

The institute has specially dedicated chartered bus service between township / subdivision of districts & the college campus.



SPECIAL CLASSES BY EMINENT PROFESSORS



BANK IN CAMPUS





HOSTEL FACILITIES

The institute provides boarding facilities to the students which gives us a grand opportunity to maintain regular and close contact with our students.

- ▶ Separate hostel for boys and girls
- ▶ Separate hostel for freshers
- ▶ Generator Facility
- ▶ Wi-Fi Enabled

Total no of
Boys hostels

05

Total accommodation of
Boys hostel

1100+ students

Total no of
Girls hostels

03

Total accommodation of
Girls hostel

300 students

CANTEEN FACILITIES

The institute runs dedicated canteens and cafeteria facilities for staff and students at subsidized rate. Breakfast, lunch, dinner and snacks are being served by multiple canteens. The institute believes in good hygienic and healthy food for all.

COMPUTER & INTERNET FACILITIES

- ▶ Fully Wi-Fi Enabled Campus
- ▶ Dedicated Computing centres with advance computers

MEDICAL FACILITIES

- ▶ Dedicated in-house Medical units
- ▶ Round the clock ambulance facility
- ▶ Regular health camps and check-ups



EXTRA-CURRICULAR ACTIVITIES

The college experience includes not just academics, but extracurricular activity as well. Here you will find hundreds of activities to choose from on the campus itself. Here you will get every option to follow your passions, form friendships, learn new skills, network professionally and — of course — enjoy yourself.



GROUP ACTIVITIES CLUB

- ▶ Film Club
- ▶ Photography club & Art society
- ▶ Renewable Energy Club (partially funded by WEBREDA)



SPORTS

- ▶ Indoor Games
- ▶ Outdoor Games
- ▶ Annual Gala Sports Event (ATHCRAZE)



SOCIAL ACTIVITIES

- ▶ Social Service & Community Welfare (SPARSH) – working for illuminating the lives of the local underprivileged children
- ▶ Blood Donation Camp
- ▶ Afforestation (Going Green)



CULTURAL FESTIVAL

- ▶ Social & Cultural Festivals like CORONA, SRISTICHARA
- ▶ Intra & inter college debates, quizzes
- ▶ Tech Fest – Prayog
- ▶ Electronic Model & Software Development programme: Project Electronica



TRAINING & PLACEMENT

The Institute has a dynamic Training & Placement Cell which is operated by Experienced officers from Kolkata and assisted by other senior and experienced faculty members from the co-ordinational wing at the college end of Suri. The T&P cell is continuously scouting for job opportunities for the students of BIET by acting as an interface between the institution and the industry.

Thanks to our eminent recruiters for reposing their confidence on the potential of BIETians.



TRAINING & PLACEMENT HIGHLIGHTS

- ▶ Pre-placement students' grooming programme conducted by different reputed professional organizations.
- ▶ Industrial visit facility for the students conducted by the concerned departments with the co operation of the T&P cell.
- ▶ Institute provides scope for Vocational Training for the students at Summer/Winter/Puja vacation.
- ▶ Soft skills & Technical skills grooming by in house & external experts.
- ▶ **Entrepreneurship Development Programme** in collaboration with Department of Science & Technology, Govt. of India.
- ▶ **Business Skill Development Programme (BSDP)** in collaboration with MSME, Govt. of India.
- ▶ Supplementary Communication Skills Development Programme through Language Lab for the students from vernacular background.

ADVANTAGE *Birbhum*

Often called "The land of red soil", Birbhum is noted for its topography and its cultural heritage which is unique. Birbhum is one of the most peaceful districts of West Bengal.

Suri is the district headquarters of Birbhum. The quite serenity of the place makes it a perfect place for pursuing educational endeavours. As an engineer our students consolidate their learning in the peaceful vicinity of Suri and unwind in tranquility for mind rejuvenation. The bauls of Birbhum, their philosophy and their songs form a notable representation of the folk culture of the district. Being close to Shantiniketan, Shri Rabindra Nath Tagore's abode of peace and learning, our students are exposed to some of the larger than life cultural festivals of Bolpur like the notable Poush Mela, to witness the East and West cultures meet. Birbhum can boast of some of the most sacred religious pilgrims like Tarapith, Bolpur and Bakreswar. Students can make a trip to these sacred places on weekends and get blessed for a bright career. This also keeps our students moral and ethical individuals of strong character. Birbhum is very well connected through all the major cities of West Bengal like Kolkata, Durgapur, Asansol, etc through a very good road and rail network. It only takes about three hours from the national highway to reach Birbhum from Kolkata. Undoubtedly, BIET is the most preferred choice of students and recruiters





HOW TO REACH US

Location: Suri, the Headquarter of Birbhum, West Bengal, is nearly 4hrs journey from Kolkata.

Communication: from Kolkata to Suri

Bus Service: Suri-Kolkata frequent bus services available from Esplanade Bus Terminus SBSTC & NBSTC

Railway Services: (From Howrah & Sealdah Station) Ganadevta, Sealdah-Rampurhat, Howrah-Rampurhat Exp. Viswabharati FP, Intercity Exp., Maa Tara Exp.

Railway Station: Ahmedpur / Sainthia (35 minutes from Suri by Bus) Shantiniketan Exp. / Kavi Guru Exp. / Sahid Exp. / Viswabharati FP Bolpur, Santiniketan (50 Minutes from Suri by Bus)

Nearest Railway Station Siuri: Hool Exp., Suri Howrah Exp., Mayurakshi FP.



Estd. 1999

BIRBHUM INSTITUTE OF ENGINEERING & TECHNOLOGY (BIET)

Campus

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