Indian Institute of Technology Bhubaneswar

Type of the Institute: Indian Institute of Technology

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About the Institute:

Indian Institute of Technology Bhubaneswar (IITBBS) was set up by the Government of India in 2008. Currently, the Institute has 581 students in the Bachelor of Technology programme in Civil Engineering, Computer Science & Engineering, Electrical Engineering, Mechanical Engineering and Metallurgical & Materials Engineering along with 140 M. Sc., 124 M. Tech. and 181 Ph. D. with a total of 1026 students. In the academic year 2016-17, the Institute is offering following B. Tech. & Dual Degree Programmes

1) 4 year B. Tech in Civil Engineering (CE) with student strength of 40.
2) 4 year B. Tech in Computer Science & Engineering (CSE) with student strength of 40.
3) 4 year B. Tech in Electrical Engineering (EE) with student strength of 40.
4) 4 year B. Tech in Mechanical Engineering (ME) with student strength of 40.
5) 4 year B. Tech in Metallurgical and Materials Engineering (MME) with student strength of 20.
6) 4 year B. Tech in Electronics & Communication Engineering (ECE) with student strength of 40.
7) 5 year Dual Degree programme (B. Tech in Mechanical Engineering and M. Tech. in Mechanical System Design) with student strength of 10.
8) 5 year Dual Degree programme (B. Tech in Mechanical Engineering and M. Tech. in Thermal Science & Engineering) with student strength of 10.
9) 5 year Dual Degree programme (B. Tech in Civil Engineering and M. Tech. in Structural Engineering) with student strength of 10.
10) 5 year Dual Degree programme (B. Tech in Civil Engineering and M. Tech. in Transportation Engineering) with student strength of 10.

The Institute promotes a borderless interdisciplinary academic environment to encourage the academic staff and students to work together through the concept of Schools. Currently, the Institute has School of Basic Sciences; School of Earth, Ocean and Climate Sciences; School of Electrical Sciences; School of Humanities, Social Sciences and Management; School of Infrastructure; School of Mechanical Sciences and School of Mineral, Metallurgical and Materials Engineering.

**Academic Programmes**

The Institute presently offers the following programmes:

- 4 year B. Tech. Degree programme
- 5 year Dual Degree programme
- M. Tech. Programme
- Joint M. Sc.-Ph. D. Programme
- Ph. D. Programme

The credit based curriculum for B. Tech. programme is spread over 8-semesters and includes summer internship, as well as research projects. For evaluation in a subject, the Institute follows a seven-point grading system with letter grades and the corresponding grade points per credit. The Cumulative Grade Point Average (CGPA) is computed at the end of each semester. The CGPA obtained by a student reflects his/her performance up to and including that semester.

**Curriculum and Pedagogy**

IITBBS offers holistic education which is broad based. The pedagogy emphasizes strong technical education supported by intense laboratory practice and fosters creativity, innovations, human excellence amongst students. While imparting strong and vibrant education in technology, the courses provide significant amount of breadth through courses such as General Studies and Current Affairs, Entrepreneurship and Small Business Management and Odissi Dance in addition to some latest courses like Bigdata Analytics, Cyber Security and Cloud Computing etc. The Institute permits students to register for select Video Courses (National Programme on Technology Enhanced Learning) & Massive Open Online Courses (MOOCs) and offers a variety of electives to the students to choose from. The Institute is equipped with facilities including e-Classrooms to support ICT based enhancements to the learning environment.
**Rules for Change of Branch**

A student admitted to a particular branch of the B. Tech. Course will normally continue studying in that branch till completion. However, the Institute may permit a limited number of students to change from one branch to another based on CGPA, not lower than 8.50, at the end of second semester after completion of prescribed credits in their first attempts without having had to pass any course requirement in the supplementary examination and/or summer quarter.

**Faculty**

IIT Bhubaneswar has versatile group of faculty members including visiting faculty from old IITs and reputed universities. At present, the faculty strength stands 109 comprising of 21 Professors including 13 visiting Professors, 1 MGM Chair Professor, 13 Associate Professors, 74 Assistant Professors apart from 19 Adjunct faculty members. All faculty members hold Ph. D. degree from reputed national and international institutions and many of them have international postdoctoral research experiences. The basic focus of the faculty members are quality teaching, research and technology development. Several research and consultancy projects have been awarded to the faculty members from the sponsoring agencies such as CSIR, DST, DBT, DRDO, ISRO, DEIT etc. They are also actively involved in publishing papers, attending the international conferences/workshops/symposium and chairing session of the conferences.

**Facilities**

IIT Bhubaneswar is presently operating from its permanent campus at Arugul as well as from the following locations in the city of Bhubaneswar: IIT Kharagpur Extension Centre at Samantapuri and Toshali Bhawan at Satyanagar. All B. Tech., M. Tech. and M. Sc. Classes will be held at the permanent campus. In addition, the students are also able to access the facilities of Central Tool Room and Training Center, Central Institute of Plastics Engineering & Technology and Institute of Minerals and Materials Technology for hands-on training. The academic campus is Wi-Fi enabled and equipped with class rooms having audio-visual aid, well-equipped laboratories, library, high bandwidth internet and video conferencing facility.
Students’ Life at Institute
Accommodation with mess and other facilities are available for both girls and boys in the hostels provided by the Institute. The hostels have 24x7 internet facility, gymnasium, common room, and other recreational facilities. Medical facility is provided round the clock with emergency care to the students both in the campus and in the hostels. The students requiring tertiary health care are referred to the hospitals at Bhubaneswar city. A counseling cell with a psychologist-cum-counselor and student guides also assist the students.

IIT Bhubaneswar's Counselling Service Team (CST) is marching ahead in its mission to facilitate the personal, academic, professional and social growth of the students, and to equip them with the skills to meet up with the variety of challenges in life. The team creates a safe-space for students to discuss their issues & challenges in a secure, confidential and private environment. Since members of the team are students themselves, they understand the difficulties faced by the newbie. This mentoring by senior students of the CST headed by faculty members creates a culture that strengthens the inter-personal bonds between the students. There are 29 student guides and each is entrusted with the responsibility of 8-10 freshers.

Financial Assistance/Scholarships
The Institute provides opportunities for visiting abroad for presenting papers. Last year, 10 numbers of students visited abroad for presenting papers and 17 numbers of students visited abroad for internship. In addition, Merit-cum-Means scholarship and other financial assistances are available to the students according to the rules and procedures laid down by the Senate.

Training and Placement
Professionalism combined with specific skill set are high in demand in the competitive global job market. The mission of Career Development Cell (CDC) of IIT Bhubaneswar is to foster excellence in career development and promote strong partnership with employers so that all the graduating students get job opportunities through campus placements. The corporate interface and relations stand high on the agenda of CDC of IIT Bhubaneswar. The CDC enjoys unflinching support and constant patronage of industry & institutions. IIT Bhubaneswar has been successful in adding more and more companies to the list of its recruiters. This year’s placement is marvelous and some of the students have got two job offers. The companies are impressed by our students performances and hence, many companies are visiting every year for recruitment. IIT Bhubaneswar provides excellent facilities for the process of campus recruitment.
International Relations

The Institute has collaborative activities with many universities abroad. The U.G. students do visit many foreign Universities for their internship. The P.G. students do their project work under joint guidance of faculty of IIT Bhubaneswar & foreign Universities. MoU has been signed with many Universities for research collaboration, faculty and student exchange. As a result of partnership understanding set by IIT Bhubaneswar, active academic interaction in research and teaching is going on between our students/faculty members and their counterparts in the following universities:

- University of Warwick, UK
- University of Southampton, UK
- University of Massachusetts, Dartmouth, USA
- University of Western Ontario, CANADA
- McGill University, CANADA
- University of New York, Buffalo, USA
- University of North Dakota, USA

Recreational & Extra Curricular Activities

IITBBS provides various opportunities for students to get involved in co-curricular and extra curricular activities such as robotics, idea pool, code marathon, athletics, sports, film making, photography, yoga, and odissi dance etc. Some of these are part of the Extra Academic Activity (EAA) which is a part of the B. Tech. curriculum. The Institute has also developed a well-equipped gymnasium, volleyball court, cricket pitch, basketball court, badminton court and football ground at the permanent campus. Every year, our students take part in the inter-IIT sports. Moreover, the Students' Gymkhana is a student body, fostering all student activities at IIT Bhubaneswar. We are having two major cultural events i.e. Wissenaire and Alma Fiesta. Wissenaire, the annual tech fest of the Institute is one of the finest techno-management festivals in this part of the country instilling the students with a spirit of innovation, entrepreneurship and a thirst for discovery. With attendance from all over the nation, its workshops, events, competitions and performances are a big success.

Alma Fiesta, the annual socio-cultural festival of the Institute, is one of the biggest student events of the state. It creates a space for social awareness, promotion of culture & tradition and channelizes the
youth energy and enthusiasm in a positive and constructive direction. Alma Fiesta plays host to an array of events, competitions, performances and workshops and is widely attended by students from across the nation.

**Location and accessibility**

Indian Institute of Technology Bhubaneswar campuses are well connected by direct train and flight services to most major cities of the country. The Samantapuri campus is about 15 minutes drive (~8 km) from the Bhubaneswar Railway station and 20 minutes drive (~12 km) from the Bhubaneswar Biju Patnaik Airport. The Satyanagar campus is about 5 minutes drive (~4 km) from the Bhubaneswar Railway station and 15 minutes drive (~8 km) from the Bhubaneswar Biju Patnaik Airport. The permanent campus at Argul is about 35 km from the Bhubaneswar City, 38 km from Bhubaneswar Biju Patnaik Airport and 8 km from Khurda Road Junction railway station.

**Website and Contact number**

Web: www.iitbbs.ac.in

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