

ANNUAL REPORT - 2019-20



COLLEGE OF ENGINEERING & TECHNOLOGY, BHUBANESWAR

(An Autonomous and Constituent College of BPUT, Odisha)

Techno Campus, Ghatikia, PO: Mahalaxmi Vihar,

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Incumbency Chart of Principals:

Sl. No.	Name	Period	
		From	To
1.	Prof. S. K. Misra	30.03.2004	09.12.2007
2.	Prof. B. B. Patra (l/c)	10.12.2007	08.05.2009
3.	Prof. K. C. Biswal	09.05.2009	15.05.2010
4.	Prof. S. K. Misra (l/c)	16.05.2010	31.01.2011
5.	Prof. B. B. Patra (l/c)	01.02.2011	28.02.2011
6.	Prof. S. P. Mohanty (l/c)	01.03.2011	10.08.2011
7.	Prof. P. K. Hota	11.08.2011	10.08.2013
8.	Prof. S. P. Mohanty (l/c)	11.08.2013	31.12.2014
9.	Prof. L. N. Panda (l/c)	01.01.2015	14.02.2015
10.	Prof. P. K. Patra	15.02.2015	cont.

Introduction:

The College of Engineering & Technology (CET), Bhubaneswar was established by the Government of Odisha in 1981 to meet the growing technical man power need in the State. It was a Constituent College of the Odisha University of Agriculture & Technology, Bhubaneswar since inception. After creation of a Technical University for Odisha State, the College has become a Constituent College of Biju Patnaik University of Technology (BPUT), Odisha with effect from 09th July, 2002 as per section-37(1) of BPUT Act, 2002.

The college is located in the techno-campus (an area of more than 100 Acres) at Kalinga Nagar, Bhubaneswar about 2.0 kms. away from Khandagiri-Udayagiri caves. The college was shifted to the new techno campus in March, 2001. The college offers a five-year under graduate degree courses in architecture (B. Arch.) and four-years B. Tech. degree in biotechnology, civil engineering, computer science & engineering, electrical engineering, fashion & apparel technology, information technology, instrumentation & electronics engineering, mechanical engineering and textile engineering. Out of the above nine B. Tech. programmes, four courses like biotechnology, computer science & engineering, information technology and fashion & apparel technology are running as self financing courses (SFC). A three year post graduate course, master in computer application (MCA) is also offered. In addition to the above courses, M. Tech. courses in Structural Engineering (in the Department of Civil Engineering), Computer Science & Engineering and Industrial Engineering & Management (in Mechanical Engineering Department) have been running from Academic Year 2005-06. Master degree programme in Architecture i.e. M. Arch. and M. Tech, Information Technology have been

running from the academic session 2007-08. All these master programmes are running as Self Financing Courses/Self Financing Program (SSB).

In the academic year 2013-14, three new PG programmes, i.e. M. Tech. in Power System Engineering (in the Department of Electrical Engineering), Electronics & Instrumentation Engineering (in the Department of Instrumentation & Electronics Engineering), Biotechnology (in the Department of Biotechnology) and 02-years M. Sc. in Applied Chemistry (in Chemistry Department) started as regular courses.

In the academic year 2014-15, Odisha State Govt. introduced nine new PG programmes i.e. M.Tech. in Water Resources Engineering (in the Department of Civil Engineering), Geotechnical Engineering (in the Department of Civil Engineering), Power Electronics & Drives (in the Department of Electrical Engineering), Energy System Engineering (in the Department of Electrical Engineering), Electronics & Communication Engineering (in the Department of Instrumentation & Electronics Engineering), Signal Processing Engineering (in the Department of instrumentation & Electronics Engineering), Thermal Engineering (in the Department of Mechanical Engineering), Design & Dynamics (in the Department of Mechanical Engineering), Textile Chemical Processing (in the Department of Textile Engineering) as regular courses. Also 5 M Sc courses and M. Sc. integrated courses like 05-years integrated M. Sc. in Mathematics and Computing, 02-years M. Sc. in Mathematics and Computing, 05-years Integrated M. Sc. in Applied Physics, 02-years M. Sc. in Applied Physics and 05-years Integrated M. Sc. in Applied Chemistry were introduced from the academic year 2014-15 as regular courses. From the academic session, 2015-16 4 yr. Bachelor degree course on B. Plan and 2 yr master degree course, M. Plan. have been introduced. Also the intake of B. Tech. (Textile Engg.) has been increased from 30 to 60.

During its journey in last 39 years of its inception towards progress, CET now stands a top with its unique distinction of producing thousands of innovative brains who have been serving the globe holding many key positions in various Industry, service, production and R&D sectors. The graduates of this institute are well appreciated by the service sector employers all over the country because of their excellent past academic records, best field performance and sincerity and dedication in duty. This college is the only Govt college in the eastern region of the country to offer technical education in 33 various courses and programmes in Engineering, MCA, Planning, Architecture and Applied sciences, which is the highest in number. Being a leading college in the Capital, it has always been the 1st choice for admission for thousands of JEE applicants. CET is one of the two institutes of the State for getting TEQIP-III fund allocation of Rs 15 crores within a span of 5 years towards strengthening and improving teaching learning process under world bank funding.

Organization:

This Organization (i.e., CET) is a constituent college of Biju Pattanaik University of Technology (BPUT) and further it got the UGC academic Autonomy from 2017-18 for 10 years. It is located in the centre of the capital city of Odisha, Bhubaneswar. It is also near to downhill of Khandagiri and Udaygiri, two historical monuments with rich cultural background of Odisha.

Governance:

The college is a constituent college of BPUT and is governed by the Act and Statutes of BPUT and Government of Odisha. After getting UGC Academic autonomy the Goerning Council was also formed under chairman ship of Prof. Asoka Kumar Das, Former(Vice Chancellor, Ulkal University, Bhubaneswar and other members as per UGC Norms.

Nature and extent of involvement of faculty and students in academic affairs/improvements is very high degree always. The college has a Professor in charge of the academics, looking into the academic matters. Besides, for

each branch/section of each year, a senior faculty remains in charge of the Advisor, who looks after the academic as well as other problems of the students.

Mechanism/norms & procedure for good governance

The college has different committees for good governance of the college.

1. Planning and Evaluation Committee(PEC): Consists of all HODS, PICs and Wardens. The Principal is the chairman of the committee. It recommends different issues to be approved by the Principal/Vice-Chancellor.
2. Purchase Committee: It consists of all HODS as members, the Principal being the chairman. All purchases of more than 15,000/- should be approved by the purchase committee.
3. Disciplinary Committee: It recommends for disciplinary action against the accused students after many rounds of hearings from the victim students.
4. Grievance redressal mechanism for faculty, staff and students are always active. There is a complaint box near the office of the Principal. Any student and staff having grievance, can drop an application which is processed by the Grievance Cell and appropriate action is recommended. Principal also gives time to all for personal hearings and tries to sort out the general problems, which are within his capacity.

Goals, Vision, Mission and Strategies:

Goals:

- To build and develop a world-class institution for creating and imparting knowledge at undergraduate, post graduate and doctoral levels contributing to the development of the nation and the humanity at large.
- To develop leaders with vision, creative thinking, social awareness and respect for our values.
- To foster excellence in teaching and research to make a global impact.
- To engage in path-breaking research that would influence national policies.
- To pursue sustainable technological solution to societal problems.
- To focus on lean engineering solution for sustainable development.
- To be the leader for academic and industrial collaborations in various disciplines nationally and internationally.
- To create awareness of the true significance of learning and teaching
- To enrich local schools and communities through value-added interactions.
- To encourage excellent language skills as part of the the institutional culture.
- To prepare students not just for their first job, but their last job as well.

Vision:

To emerge as global leader in technical education.

Mission:

To generate on a sustainable basic quality technical human resources commensurate with the dynamic global scenario.

Strategies:

1. To establish and maintain quality infrastructure for engineering education.

2. To periodically and suitably update the curriculum with a vision to accommodate the fast changing global milieu.
3. To amalgamate engineering knowledge of students and faculty with computer science, information technology, finance and accounting skills along with physical fitness.
4. To stimulate research and development activities on thrust areas.
5. To develop industry - institute interaction.
6. To promote participatory culture among all stake holders for excellent customer satisfaction.
7. To inspire students and faculty on ethical, spiritual and social values.
8. To inculcate a spirit of environment friendliness and sustainable development and to instill a culture of quality.

Status of NBA, NAAC, UGC Autonomy, and TEOIP-III etc.

NBA:

B Tech Degree Programmes for four Departments of CET (Civil Engineering, Mechanical Engineering, Electrical Engineering and Instrumentation & Electronics Engineering) are accredited for 3 years from 2019 to 2022. The accreditation of the Textile Engineering and MCA were for two years initially, further for the extension of Accreditation, the applications are submitted which are with the NBA Authorities for further review and consideration.

NAAC:

College of Engineering & Technology Bhubaneswar has been accredited with “A” Grade by NAAC for five years w.e.f. January, 2017.

UGC Autonomy:

College of Engineering & Technology, Bhubaneswar has got UGC Autonomy for 10 years w.e.f. Academic Year 2017-18. This is the academic autonomy provided by UGC.

TEOIP-III (Grant for the Period 2017-2020):

After successful implementation of TEQIP II in CET during the period, 2012-2016, CET Bhubaneswar has been granted TEQIP III by MHRD, Govt of India with a grant of Rs.15 crores during the period, 2017-2020 towards R&D activities, modernization of Laboratories, improving quality of Technical education, etc.

Objective of the Institution:

- Promoting globally competitive academic programs and support the growth of intellectuals with skill in hand.
- Collaborating high-degree interdisciplinary research.
- Strengthening a healthy society by improving the quality of life through developing and applying of modern technologies.
- Establishing a sustainable economic base.
- Building up a healthy environment and homely ambience in the Institute.

Administration Hierarchy:

Vice-Chancellor	:	Prof.(Dr.) Chita Ranjan Tripathy
Principal		Prof.(Dr) P. K. Patra
HODs		
Civil Engineering	:	Dr. D. P. Satapathy
Mechanical Engineering	:	Dr. R.K.Mallick
Electrical Engineering	:	Dr. A.K.Barisal
Electronics and Instrumentation Engineering	:	Dr. S.Behera
Computer Science & Engineering	:	Dr. S. Mohapatra
Information Technology	:	Dr. R. K. Dash
Textile Engineering	:	Dr. B. P. Dash
Biotechnology	:	Dr. R. K. Pradhan
Fashion & Apparel Technology	:	Dr. A. K. Dash
Architecture	:	Prof. P.P.Karmakar
Planning	:	Prof. S.S.Swain
Computer Science & Application (MCA)	:	Dr. J. Mishra
Physics	:	Dr. B. Ojha
Chemistry	:	Dr. A. N. Acharya
Mathematics & Humanities		Dr. G. Pradhan
Professors-In-Charges (PICs)		
Administration	:	Prof. A. Mohapatra
Academics (UG) Academics (PG)	:	Dr. L.N.Tripathy Prof. P. K. Satapathy (EE)
Accounts	:	Dr. A. N. Acharya Dr. P. K. Parida
Central Library	:	Dr. M. C. Tripathy
Central Computer Lab-I	:	Dr. S. Mohapatra
Central Computer Lab-II	:	Dr. R. K. Dash
Controller of Examinations	:	Prof. R. R. Dash
Internet & Wi-Fi	:	Principal
Income Tax & Electrical Maintenance	:	Prof. P. K. Satpathy (EE)
Civil Maintenance	:	Dr. F. Baliarsingh
Students' Affairs	:	Dr. P .K. Satapathy (ME)
Training & Placement	:	Dr. S. K. Pradhan
Telephone	:	Dr K. C. Bhuyan
Time Table	:	Ms. M. Viswavandya
Central Purchase Committee CPC Convenor	:	Prof. S. behera Dr. R. K. Pradhan
Security	:	Dr. M.P.Mishra
Alumni Association	:	Dr P.K.Parhi/Dr. P. K. Parida

1 st Appellate Authority, RTI	:	Dr. S. Behera
PIO, RTI	:	Dr. B.R.Das
ISTE Students Chapter Faculty Advisor	:	Prof. P.K.Behera
Transport		Prof. S. Maharana

Academics

ADMISSION REQUIREMENTS

Admission to different under graduate degree course like Civil, Mechanical, Electrical, Instrumentation and Electronics, Information Technology, Computer Science and Engineering, Biotechnology, Textile Engineering, Fashion and Apparel Technology, B. Arch. B. Plan and Post Graduate Degree like MCA, M. Tech, M. Arch & M. Plan is conducted every year through “Odisha Joint Entrance Examination” committee constituted by Govt. of Odisha. The intake strength of various departments for the session 2017-18 is as follows.

Programmes Offered and Capacity:

INTAKE CAPACITY OF STUDENTS IN DIFFERENT ACADEMIC PROGRAMMES (2017-18) UG PROGRAMME:

B. Tech., B. Arch, & B. Plan. Programme (2017-18)

SL	Full Time Course Intake	Approved	Entry level	Duration	Degree
01	Architecture	20	10+2	5 years	B. Arch.
02	Bachelor in Planning	60	10+2	4 years	B. Plan
03	Biotechnology (SSP)	30	10+2	4 years	B. Tech (Biotech)
04	Civil Engineering	120	10+2	4 years	B. Tech (Civil)
05	Computer Science & Engineering (SSP)	60	10+2	4 years	B. Tech (CSE)
06	Electrical Engineering	120	10+2	4 years	B. Tech (Elect.)
07	Fashion & Apparel Technology (SSP)	30	10+2	4 years	B. Tech (FT)
08	Information Technology (SSP)	60	10+2	4 years	B. Tech
09	Instrumentation & Electronics Engineering	120	10+2	4 years	B. Tech (I & E)
10	Mechanical Engineering	120	10+2	4 years	B. Tech (Mech)
11	Textile Engineering	60	10+2	4 years	B. Tech (TE)
	Total Annual Intake	800			

PG PROGRAMME:

M. Tech., M. Arch. & M. Plan. Programme (2017-18)

01	Computer Science & Engineering (SSP)	18	B. Tech.	2 Years	M. Tech.
02	Information Technology (SSP)	18	B. Tech.	2 Years	M. Tech.
03	Structural Engineering. (SSP)	18	B. Tech.	2 Years	M. Tech.

04	Industrial Engineering & Management (SSP)	18	B. Tech.	2 Years	M. Tech.
05	Power System Engineering	18	B. Tech.	2 Years	M. Tech.
06	Electronic & Instrumentation Engineering	18	B. Tech.	2 Years	M. Tech.
07	Biotechnology	18	B. Tech.	2 Years	M. Tech.
08	Water Resources Engineering	18	B. Tech.	2 Years	M. Tech.
09	Geotechnical Engineering	18	B. Tech.	2 Years	M. Tech.
10	Power Electronics & Drives	18	B. Tech.	2 Years	M. Tech.
11	Energy System Engineering	18	B. Tech.	2 Years	M. Tech.
12	Electronics & Communication Engineering	18	B. Tech.	2 Years	M. Tech.
13	Signal Processing Engineering	18	B. Tech.	2 Years	M. Tech.
14	Thermal Engineering	18	B. Tech.	2 Years	M. Tech.
15	Design & Dynamics	18	B. Tech.	2 Years	M. Tech.
16	Textile Chemical Processing	18	B. Tech.	2 Years	M. Tech.
17	M.C.A	30	Graduate	3 Years	MCA
18	M. Arch. (SSP)	20	A. Arch.	2 Years	M. Arch.
19	M. Plan.	18	B. Arch/B. Plan.	2 Years	M. TPlan.
20	M. Sc. In Applied Chemistry	20	Graduate	2 Years	M. Sc.
21	M. Sc. In Applied Physics	20	Graduate	2 Years	M. Sc.
22	M. Sc. In Mathematics & Computing	20	Graduate	2 Years	M. Sc.
23	Integrated M. Sc. In Applied Physics	30	+2 Sc.	5 Years	M. Sc.
24	Integrated M. Sc. In Applied Physics	30	+2 Sc.	5 Years	M. Sc.
25	Integrated M. Sc. In Mathematics & Computing	30	+2 Sc.	5 Years	M. Sc.
	Total Annual Intake	506			

Ph. D. PROGRAMME (UNDER TEQIP)

SI. No.	Department	Students admitted
01	Biotechnology	02 (2012-13), 01 (2013-14)
02	Civil Engineering	01 (2013-14)
03	Computer Science & Engineering	01 (2012-13), 01 (2013-14)
04	Chemistry	01 (2012-13), 01 (2013-14)
05	Electrical Engineering	01 (2012-13), 01 (2013-14)
06	Information Technology	01 (2012-13), 01 (2013-14)
07	Mechanical Engineering	01 (2012-13), 01 (2013-14)
08	Physics	01 (2013-14)
	Total Annual Intake	16

Ph. D. PROGRAMME (Regular)

01	Electronics & Instrumentation	04
02	Civil Engineering	04
03	Computer Science & Engineering	01
04	Chemistry	02
05	Electrical Engineering	04
06	Information Technology	03
07	Mechanical Engineering	06
08	English	01
09	Textile	02
Total		27

The details of the eligibility, reservation, medical requirements, and procedure for admission for various programmes are given in the information brochure for "Odisha Joint Entrance Examination".

Centre of Excellence: Various Organisations are committed to establish their centre of excellence inside the premises of the Institute. Out of which the prominent one is "Tech. Mahindra" who has established the AI and ML centre of excellence inside the premises which was inaugurated by Honourable CM of Odisha on December, 2019.

Infrastructure and Facilities

HOSTEL ACCOMMODATION:

Girls Hostel: The Institute has two hostels for girls named as Kalpana Chawla Hall of Residence (KCHR), and Kasturba Hall of Residence (KHR) inside the premises. The hostel will accommodate around 550 numbers of girls.

Boys Hostel: The Institute has two hostels for girls named as Ramanujan Hall of Residence (RHR), and APJ Abdul Kalam Hall of Residence (APJAHR) inside the premises. The hostel will accommodate around 550 numbers of boys.

Rented Hostel: This hostel is dedicated for the 1st year boys' students and located very close to the institute boundary. The capacity of the hostel is 120 numbers.

At present there are two hostels in the new Techno Campus one each for boys and girls. First year boys are accommodated in a rented hostel outside the campus. 1st year girl students are accommodated in the girls' hostel inside the campus. Each hostel has a common mess. Boarders have to strictly follow the hostel rules prescribed by the college. Following faculties are in charge of different hostels.

Warden (Boys' Hostel)	Dr. D. P. Bagarty	Mobile - 9437536771
Warden (Girls' Hostel)	Mrs. S. Dash	Mobile - 9437374185
Superintendent, Boys' Hostel (Rented)	Dr. A. K. Dash	Mobile - 9437449510
Superintendent, Boys' Hostel (APJAHR)	Dr. P. K. Ray	Mobile - 9438143665
Superintendent, Boys' Hostel (RHR)	Dr. B. R. Das	Mobile - 9437182654
Superintendent, Girls' Hostel (KHR)	Ms. Twinkle Kisku	Mobile - 9555130996
Superintendent, Girls' Hostel (KCHR)	Ms. M. Srivalli	Mobile - 9668866744

Medical Facility and Tie-up with Hospital: The medical facility to the academic, administrative authorities and staffs are provided per month basis for 12 months of a year. The amount is fixed to Rs. 225.00 per month. The institution has tie-up with SUM hospital to take care of faculties, staffs, and students of their health care and emergency situation.

Residential facility for Faculty and Staff: Inside the campus the residential facility for the faculties and staffs are provided. The campus contains 18 numbers of quarters that are provided to the faculties and staffs of the Institute.

Library:

Library is primarily intended for the staffs and students of this college. The Library is having a total collection of books with 38,821 with 8,210 titles. The library subscribes Indian Journals, eLibrary with e-journal with like ASME, ASCE, IEEE, RET, JGATE, Springer links, Science Direct etc. The Library opens from 8 A.M. to 2 P.M. on working days. Text book bank for facilities for SC/ ST and general students are also available.

The college has a library having a total no. of 38821 text books and reference books consisting of 8210 book titles. Presently 112 Journals are under use by the faculty and students for which the hard copies are received every month.

List of E-Resources Subscribed by CET, Bhubaneswar (700 e-journals)

IEEE	www.ieee.org/ieeexplore
Springerlink	http://link.springer.com/ or http://springerlink.com
ASME	http://asmedl.org/journals/doc/ASMEDL-home/jrnls/
ASCE	http://ascelibrary.org
Access Engineering (McGraw Hill)	http://accessengineeringlibrary.com/
J-Gate	http://www.jgate.in or http://www.j-gate.informindia.co.in
Science Direct	http://www.sciencedirect.com
ASTM	http://enterprise.astm.com
EBSCO (Arch)	http://search.ebscohost.com/
Cengage (Arch)	http://infotrac.galegroup.com/itweb/cet_bhubaneswar

Laboratory Facilities/ Computer Centre

List of Major Equipment/Facilities

Name of the Course	Name of Laboratory	Major Equipments
Mechanical Engg.	Workshop	Lathes, Milling Machines, Shaping machines, Welding machines, Carpentering machines
Mechanical Engg.	Mechanical Engg. Lab. Hydraulic Lab. Heat Transfer lab. Heat Power Lab. CAD/CAM Lab.	Universal testing machines, CNC machines, 6-axis Robot, Petrol & diesel engine test rings, Refrigerator and A/C test rings, Air compressors, NISA software Flexible Manuf. Lab.

Electrical Engg.	<p>Basic Electrical Engg. Lab. Electrical Machines lab. Power System Engg. Lab. Power Electronics and Drives Lab. Micro-processor & Micro Controller Lab. High-Voltage Engg. Lab. Network & Device Lab. Control system and Inst. Lab. Simulation and Design Lab.</p>	<p>Software: E-Tap, MATLAB, PSCAD, LABVIEW. <u>Equipment</u> High Voltage AC/DC testing Kit, Wind Power excel actor, Grid corrected PV system, Alternators. Induction Motors (1 phase, 3 phase), DC Machines, Transformers (3 phase, 1 phase), Relays (Various Type), Converters, inverters, Choppers etc., Various Power Electronics Controller.</p>
Civil Engg.	<p>Concrete Lab. Soil Mechanics Lab. Structural Lab. Survey Lab. Highway Engg. Lab. Environmental Lab. Hydraulics Lab.</p>	<p>Hydraulic equipments, UTM, Compression testing machine, Total station, Theodolite,</p>
Instru. & Electronics	<p>Basic Electronics Lab. Electronics circuit Lab. Communication & Digital Signal Processing Lab. VLSI & Simulation Lab. Instrumentation Device Lab.</p>	<p>CRO, DSO power suppliers, Signal generators, Common modules, Common trainers, Process control trainer, MATLAB, XI LI NX LAB View, MSO, PLC, P-5</p>
Computer Sc. & Engg. M. Tech. Laboratory (Research Lab.)	Computer Organization Laboratory	<p>1. Desktop Computer - 24 Nos. 2. Digital Copier with Printer 3. 4.5 KVA online UPS 1. Desktop Computer 2. 2 KVA Online UPS 3. LCD Projector 4. SMPS Trainer Module 5. CPU Trainer Module 6. Printer Trainer Module 7. Real time clock Trainer Module 8. Hard Disk Trainer Module</p>
	<p>Programming Language Lab. Operating System Lab. Computer Network Lab</p>	<p>These Laboratories are conducted at Central Computing Facility -1</p>
Biotechnology	<p>Biochemistry & Microbiology Lab, Plant tissue culture Lab,</p>	<p>Blotting apparatus, Sonicator, Water shaker bath, Bioreactor,</p>

	Molecular biology Lab	Gel Documentation Unit, Homogenizer, Clinical analyzer, pH meter, Soxhlet apparatus, Compound microscope and Water distillation unit.
Textile Engg.	Yarn Manufacture	Carding, Draw frame, Simplex, Ring frame, Doubler
	Fabric Manufacture	Silk loom, Dropbox loom, Circular knitting machine, Flatbed Knitting machine
	Testing Lab	Unistretch, Abrasmart, Ele twist, Stelometer, Tearing strength tester, Fibrolen
	Chemical Processing Lab Design	Padding mangle, Stenter CATD
Architecture	Photography lab. Audio Visual Seminar Room Model Making & NASA activity room Computer graphics lab Building Material Museum	
	Information Technology	Software Engineering lab. Internet & Web Designing lab. Multimedia & Computer Graphics lab. VISI & Embedded lab.
MCA	Programming Language lab. Multi Media & Web Designing lab. Graphics lab. Operating System lab.	i3, 17 Pcs-90 Nos., Multimedia systems with Adobe, MATLAB with image processing tool box i7 pcs - 33 Nos. Rational Rose Software, MATLAB, Oracle Computer Graphics lab.
	Fashion & Apparel Tech. CAD Lab	Software for fashion designing (Fashion Studio), Software for garment pattern Making, Digitizer, Audio/visual aid
	Garment Manufacturing Lab	Chain stitch M/C, Lock Stitch M/C (JUKI), Computerized Fashion maker (USHA), Automatic Embroidery M/C etc..
	Garment Testing &	Equipped with all types of

	Processing Lab	advanced garment Testing machinery for testing of Drape, Garment Washing Fastness, Flammability, Air Permeability, Tearing & Brusting Strength, Fabric Pilling performances, Stiffness, Crease recovery, Water Vapour Permeability & Digital Garment Fusing M/C etc...
Physics Chemistry	Physics Lab. Chemistry Lab.	Spectro photometer, Digital PH meter, Viscometer
Humanities	English Language Lab.	Pentium IV - 2 Nos 32 head Phones, VCD Disk Antenna,

CENTRAL COMPUTING FACILITY-I AND FACILITY-II

The College has more than 300 computers out of which there exists a Central Computing facility managed by CSE Department having 128 Computers with Linux/Windows LAN connectivity through Servers. Software as per University course curriculum like C/C++, Java, MATLAB and databases like Oracle, Rational Rose exists. The college has Internet connectivity from BSNL of 10 Mbps (1:1) leased line with Fibre Optic End point connectivity, 10 Mbps connectivity through NMEICT and 100 Mbps connectivity through NKN. The Central Computer facility was established in the year 2005 with financial assistance from SSP head of College. At present, it consists of four different sections i.e. CL - 1, CL - 2, CL - 3 and CL - 4. Each Section has 32 PCs connected with DELL Blade Server. Students of all Engineering/Technology branches including MCA and Architecture perform their common computing laboratory work in Programming in C, Data structure using C, OOP/C++, RDBMS / ORACLE as per BPUT Syllabus. Besides this, students of higher Semester of CSE, IT and MCA utilize this laboratory for their Computer Network Lab, JAVA Programming Lab, OS Lab, Internet Lab, etc. All the PCs are with LAN connectivity and Internet connectivity. Four numbers of 10 KVA Online UPS are provided to 128 PCs and a 15 kVA Online UPS is connected with Server room for Server, Network Switches, etc. Under TEOJP, one 12 TB Storage Area Network is installed in the Central Computer Laboratory. There exists operating environment as Windows, DOS, Unix / Linux, etc with 58 numbers of i7 PC and 70 numbers of 13 PCs. As the present requirement is not sufficient, construction of another Central Computer Laboratory (CCL-2) is going on with 128 PCs and other accessories / connectivity will be operational shortly, 2014 with exact replica of the existing Central Computer Laboratory -1 (CCL-I), Central Computing Laboratory – II is established.

Due to increase in intake, a similar replica of Central Computing Facility - I is established as Central Computing Facility - II managed by IT Department. At present it has 128 Computers with Server and other accessories. The fully furnishing of the above as done in Central Computing facility - I will be completed within a month time.

CENTRAL INTERNET FACILITY

The Central Internet Facility is provided to the students, staff and faculty of the college. Presently it has 10 Mbps leased line connectivity from BSNL with another 10 Mbps Internet connectivity from BSNL through National Mission on Education through Information and Communication Technology (NMEICT) of MHRD,

Government of India. The Internet facility is available for 24X7 on all days including holidays also. It caters the need of various Online tests for jobs during campus placements of students and web browsing for their project works.

Wi-Fi FACILITY

The entire College campus including Boys Hostel, Ladies Hostel, Staff Quarter and various academic & administrative buildings are 24 X 7 Wi -Fi connected with 100 Gbps leased line Internet connectivity through National Knowledge Network (NKN) scheme. Students, staff and faculty members are successfully utilizing this facility. This is managed by CSE Department

Independence Day Celebrations:

The college celebrates the Independence day on August 15 in each year to memories the noble people behind this phenomenon and to enjoy the state of joy be in independent.

Republic Day Celebrations:

Nation's Republic Day, which is a gazetted holiday on January 26 each year. It is a day to remember when India's constitution came into force on January 26, 1950, completing the country's transition toward becoming an independent republic. On Republic Day, flag hoisting ceremonies and parades are performed in the campus of the Institute.

Faculty and Staff Positions: Sanctioned Intake and Actual Intake:

Faculty Position:

Institution	Department	Rank	Sanctioned Post	Filled Post
CET, Bhubaneswar	Planning	Assistant Professor	4	3
CET, Bhubaneswar	Planning	Associate Professor	1	0
CET, Bhubaneswar	Planning	Professor	0	0
CET, Bhubaneswar	Dept.Architecture	Assistant Professor	4	3
CET, Bhubaneswar	Dept.Architecture	Associate Professor	2	0
CET, Bhubaneswar	Dept.Architecture	Professor	1	0
CET, Bhubaneswar	Mathematics & Humanities	Assistant Professor	4	2
CET, Bhubaneswar	Mathematics & Humanities	Associate Professor	3	0
CET, Bhubaneswar	Mathematics & Humanities	Professor	1	0
CET, Bhubaneswar	Chemistry	Assistant Professor	1	1
CET, Bhubaneswar	Chemistry	Associate Professor	3	1
CET, Bhubaneswar	Chemistry	Professor	0	0
CET, Bhubaneswar	Physics	Assistant Professor	2	1
CET, Bhubaneswar	Physics	Associate Professor	3	0
CET, Bhubaneswar	Physics	Professor	0	0
CET, Bhubaneswar	Textile Engineering	Assistant Professor	6	5
CET, Bhubaneswar	Textile Engineering	Associate Professor	2	0
CET, Bhubaneswar	Textile Engineering	Professor	0	0
CET, Bhubaneswar	Mechanical Engineering	Assistant Professor	17	14
CET, Bhubaneswar	Mechanical Engineering	Associate Professor	12	5
CET, Bhubaneswar	Mechanical Engineering	Professor	4	2
CET, Bhubaneswar	Instrumentation & Electronics Engineering	Assistant Professor	17	16
CET, Bhubaneswar	Instrumentation & Electronics Engineering	Associate Professor	13	2
CET, Bhubaneswar	Instrumentation & Electronics Engineering	Professor	5	1
CET, Bhubaneswar	Information Technology	Assistant Professor	0	0
CET, Bhubaneswar	Information Technology	Associate Professor	0	0
CET, Bhubaneswar	Information Technology	Professor	0	0
CET, Bhubaneswar	Fashion & Apparel Technology	Assistant Professor	0	0
CET, Bhubaneswar	Fashion & Apparel Technology	Associate Professor	0	0
CET, Bhubaneswar	Fashion & Apparel Technology	Professor	0	0
CET, Bhubaneswar	Electrical Engineering	Assistant Professor	17	17
CET, Bhubaneswar	Electrical Engineering	Associate Professor	13	6
CET, Bhubaneswar	Electrical Engineering	Professor	5	2
CET, Bhubaneswar	Computer Science & Engineering	Assistant Professor	0	0
CET, Bhubaneswar	Computer Science & Engineering	Associate Professor	0	0
CET, Bhubaneswar	Computer Science & Engineering	Professor	0	0
CET, Bhubaneswar	Civil Engineering	Assistant Professor	17	10
CET, Bhubaneswar	Civil Engineering	Associate Professor	12	2
CET, Bhubaneswar	Civil Engineering	Professor	4	0
CET, Bhubaneswar	Biotechnology	Associate Professor	1	0
CET, Bhubaneswar	Biotechnology	Professor	1	0

Faculty Activities:

➤ Consulting Projects

In 2019-2020, the consultant work earned Rs. 7882364/- for CET, BBSR from PM.

R&D Achievements:

SI. No	Title of the Project	Funding Agency	PI & Co-PI/ Department	Amount of Fund Sanctioned	Duration
1	Experimental and Numerical Investigation of heat transfer enhancement from a protruded using cross flow Jet	Department of Science & Technology, Govt. of Odisha, Odisha	PI : Dr. A.K Barik Mechanical Engineering	Rs 10 Lakhs	3Years (2018-2021).
2	Experimental comparison between Current based Maximum Power Point Tracking (CMPPT), Voltage based Maximum Power Point Tracking (VMPPT) and population based particle swarm optimization (PSO) MPPT technique for PV system under normal & partially shading operation	Department of Science & Technology, Govt. of Odisha, Odisha	PI: Dr. R.K Jena Electrical Engineering	Rs 10Lakhs	3 Years (2018-2021)
3	Design and development of Solar cooker for industrial zone using Experimentation and Computational Investigation	Department of Science & Technology, Govt. of Odisha,Odisha	PI: Dr. S Sahoo Mechanical Engineering	Rs 9.67 Lakhs	3 Years (2019-2022)
4	Experimental and Numerical Investigation of Air Entrainment into Different types of Infrared Suppression(IRS) Devices	Core Research Grant (CRG) from Science & Engineering Research Board(SERB), Govt of India Sanction order: CRG/2019/00064 4 & 19 th Dec. 2019	PI: Dr. A.K Barik Mechanical Engineering. Co-PI: Dr. P.K Parida	Rs 35 Lakhs	3 Years 2019 – 2022

5	Development of Fibre Science & IOT Lab	AICTE (MODROB) File No: 9-34/RIFD/MOD/Policy-1/2018-19 dated 02-12-2019	Dr. Ashimananda Khandual (Coordinator) Textile Engineering	Rs 16 Lakhs	2Years 2019-2021
6	Modernization of the Embedded System Lab.	AICTE (MODROB) File No: 9-53/RIFD/MOD/Policy-1/2018-19 dated 02-12-2019	Dr. Sribatsa Behera (Coordinator) I & E Department	Rs 6 Lakhs	2Years 2019-2021
7	Fund for Infrastructure Development & Research	FIST(Type-0), DST, Govt. of India, New Delhi Sanction Order No : SR/FST/COLLEGE-/2019/581 Dated 7,January, 2020	PI: Dr. Lokanath Tripathy CO-PI: Dr. Meera Viswavandya, CO-PI: Dr. Ajit Kumar Barisal, CO-PI: Dr. D.P Bagarty CO-PI :Dr. Prakash Kumar Ray, (Electrical Dept.)	Rs 68 Lakhs	5 Year (2020-2025)
8	Exploring the Role of Erythrocyte in Local Regulation of Tissue Blood Flow in Health and Disease"	Department of Science & Technology, Bio-Technology Govt. of Odisha,Odisha Recommendation Letter No: ST-BT-MISC-0008-2019-3033/ST, Dated 07-08-2020	PI: Dr. Ranjan Kumar Pradhan Bio-Technology Dept.	Rs 10 Lakhs	2020-2023 (Three Years)
9	Micro Grid Protection and Relay Co-ordination using Advanced Intelligent Techniques	Department of Science & Technology, Govt. of Odisha, Sanctioned Letter No :1427/ST, ST-SCST-MISC-0015-2019,Bhubaneswar , dated 06-03-	PI: Dr. P.K Ray Co-PI: Dr. A.K Barisal Electrical Engineering Department	Rs 10 Lakhs	2020-2023 (Three Years)

		2020			
10	Ubiquitous Healthcare using Recent Information and Communication Technology.	OURIP, Odisha State Higher education council, Higher Education Department, Govt. of Odisha	PI: Subasis Mohapatra Computer Science Dept.	Rs 4.26 Lakhs	2019-2022 Three Years
11	Experimental Analysis and utilization of biogas from food waste and Vinasse in Compression Ignition Engine	OURIP, Odisha State Higher education council, Higher Education Department, Govt. of Odisha	PI: Dr. Kapura Tudu Mechanical Engineering Department	Rs 4.62 lakh	2019-2022 Three Years
12	Thermal performance analysis of parabolic trough solar collector using experimental and computational approach for coastal region	Research Promotion Scheme(RPS), AICTE, New Delhi File No : 8-46/FDC/RPS(PO LICY-1)/2019-20, Dated 14-8-2020	Dr. S. Sahoo Mechanical Engg. Department Principal Investigator	Rs 19.97 lakhs	2020-2023 (Three Years)
13	Computational and Experimental Investigation of the role of erythrocyte in Local metabolic Control of Coronary Blood flow	Core Research Grant (CRG) from Science & Engineering Research Board(SERB), Govt of India File No. CRG/2020/ 005519/IBS	PI: Dr. Ranjan Kumar Pradhan Bio-Technology Dept.	Rs 40 lakh	2021-2024 (Three years)
14	Coal Spontaneous Combustion early detection system	R&D Collaborative Project from NALCO	PI: Dr. T.K.Patra Dept. of Electronics & Instrumentation, Co PI: Dr S. Behera , Dept. of Electronics & Instrumentation Co PI: Mr. S. Patnaik , Dept. of Electrical Engg.	Rs.23.45lakh	
Total				266.97 lakh	

Some more under pipeline from different funding agencies and Industrial houses

Conference Held:

- National conference of on smart grid and power system, by Elec. Dept.
- National conference on signal processing, by I&E Dept.
- GIAN course by Textile Dept. in 2018.

Consultancy Projects in-hand:

- PMGSY

Start-ups and Innovations:

- Vedanta
- Energy System, Govnt. of Odisha

Linkage with Industry:

1. NALCO
2. Vedanta Ltd.
3. Hindalco Industries Ltd.

Collaborative Activities:

- ICT, Mumbai.
- JNTU, Kakinada.
- On AI, Tech. Mahindra

Training Activities: Student, Faculty, Teaching and Non-teaching Staff:

Training Programs Held for Students:

1. CTTC Training
2. Employability Test
3. AMCAT Test
4. GATE Training

Training Programs Held for Teachers and Staffs:

Teachers:

1. Pedagogical training
2. Management training
3. Subject training
4. Conference/Symposium/Seminar/Workshop
5. Site visit for understanding problems and collaborative projects

Technical/Non-technical Staffs:

- NITTR, Chandigarh, Punjab.
- IIM Raipur, MP.
- JNTUCE, Kakinada

Award and Recognition

NATIONAL LEVEL AWARDS RECEIVED BY CET IN LAST YEARS:

1. National Education Leadership Award presented on 12.9.2015 by **Vijaivani** for being the Outstanding Engineering Institute in the Eastern Region.
2. Education Leadership Award presented by **DNA & Stars of the Industry Group** on 18.2.2016 while declaring 8th Innovative Education Awards.

3. Indo Global Engineering Educational Excellence Award 2016 by **Indo Global Chamber of Commerce** on 24.2.2016.

4. National Education Award by **ABP** for being the Outstanding Engineering Institute in the Eastern Region on 23.6.2016.

Training Activities: Student, Faculty, Teaching and Non-teaching Staff:

Student Strength (UG, PG, PhD): Sanctioned Intake and Actual Intake:

Students Admitted into Various Courses in 2019-20		
B. Tech.		
Branch	2019- 20	
	Intake Capacity	Actual Admission
B. Tech., CE	120	126
B. Tech., ME	120	122
B. Tech., EE	120	125
B. Tech., I & E	120	121
B. Tech., CSE (SSP)	60	63
B. Tech., IT (SSP)	60	62
B. Tech., TE	60	43
B. Tech., FAT (SSP)	30	15
B. Tech., BT (SSP)	30	25
B. ARCH.	20	20
B. PLAN.	60	33
TOTAL	800	755

Students Admitted into Various Course in 2019-2020		
PG (M. Tech./ME)		
Branch	2019-20	
	Intake Capacity	Actual Admission
MCA	30	30
EE-Energy System Engg.	18	14
EE-Power System Engg.	18	17
EE-Power Electronics & Drives	18	16
I& E-Electronics & communications Engg.	18	17
I& E-Electronics & Instruments Engg.	18	06
I& E-Signal Processing	18	05
I.T. (SSP)	18	05
B.T.	18	01
TE	18	02
CSE (SSP)	18	18
CE-Geotechnical	18	18
CE-Structural (SSP)	18	17

CE-Water Resources	18	18
ME-Design & Dynamics	18	18
ME-Industrial Management (SSP)	18	17
ME-Thermal Engg.	18	18
M. Plan.	18	18
M. Arch. (SSP)	20	0
Total	356	255

Applied 2 yrs. M. Sc. Courses		
Branch	2019-20	
	Intake Capacity	Actual Admission
Chemistry	20	19
Physics	20	19
Math. & Computing	20	20
TOTAL	60	58
Applied Integrated 5 yrs. M. Sc. Courses		
Branch	2019-20	
	Intake Capacity	Actual Admission
Chemistry	30	17
Physics	30	26
Math. & Computing	30	15
TOTAL	90	58

At present 9 students have enrolled in Ph.D. at various streams from which 2 students from CSE and CSA (MCA) have submitted their dissertation in 2018 under the guidance of Prof. P. K. Patra and Prof. J. Mishra.

Student Activities:

SCHOLARSHIP:

CET Merit scholarship of value Rs. 400/- per month will be awarded to 10% of the students of each class. The scholarship for 1st Year B. Tech./B. Arch./MCA shall be awarded to the students basing on their JEE rank in general category. For 2nd year and onwards the scholarship shall be given branch wise basing on their CGPA in the previous year Examination. The minimum eligibility for the award of the scholarship is 8.0 CGPA and the students must have cleared all subjects registered so far in the first attempt and should have the required attendance at any point of time during the current course without any involvement in discipline activities.

Medhabruti Scholarship, Minority Scholarship, Post Matric Scholarship etc. are also awarded every year to the poor and meritorious students by Govt. of Odisha and Govt. of India for which every eligible student has to apply in the prescribed application format in time. The detail information can be obtained from the scholarship section of the college.

Need & Merit Scholarship (NMS) was started by a group of students from the batch of 2003 in 2007-08. This scholarship is extended to 2 students of each batch. The amount of scholarship is a part of the tuition fees would be Rs. 5000/- per semester. The details about the scholarship can be known from the NMS team who can be reached at nms_03@yahoo.com.

TRAINING & PLACEMENT

TRAINING:-

The Training & Placement cell of CET constitutes of the following members.

- 1) Dr. S. K. Pradhan, PIC, Placement, TPO
- 2) Prof. Samarjit Patnaik, Internship Coordinator, Deputy TPO

One faculty member from each department is a member of the T&P cell.

Though training is not compulsory, students normally undergo practical training in different organizations all over the country in summer break. The college also organizes in-house summer training on various advanced subjects during this period, like JAVA, .NET, ASP.NET, SQL-2000 and many more for overall development of the students.

The students go to different companies for training during vacation at the end of 2nd and 3rd year.

Students should contact the HOD of respective department for this purpose. For B. Tech. course in Textile Engineering and Fashion & Apparel Technology one month, Industrial Training is compulsory after 6th semester examination [During Summer Vacation].

However as per curriculum, all the students of B. Tech. Fashion & Apparel Technology branch have to undergo compulsory one month summer internship after completion of 6th sem. examination, for which they will be awarded with credit points in their 7th sem. examination.

PLACEMENT:-

In a challenging and turbulent year faced by the industry with factors ranging from burnouts to layoffs to salary cuts, our college surges ahead of its counterparts in terms of student placements. CET has been critically acclaimed across borders with its renowned alumni holding international positions. Most part of the credit goes to the high quality students, excellent faculty, and a deep industry engagement with key recruiters.

The college has also remained top among the educational institutes of the state on the basis of academic excellence, industry interface, personality development, placement and selection process. It's the placement team which played the pivotal role who has walked the extra mile to place the deserving students to achieve a growth in key statistics which are much ahead of the leading institutes across Odisha. The T&P cell has helped the students in availing Internship/Industrial Training during summer and winter break in various organizations.

The placement cell of CET has worked wonders over the past few years and success record of the students placed in some of the best companies stands as a testimony to the fact. It includes organizations like MARUTI SUZUKI, ASIAN PAINTS, TCS, ACCENTURE, TATA STEEL, ANALOG DEVICES INDIA, VEDANTA, BOSCH, TATA ADVANCED SYSTEM, GODREJ, CISCO, TATA REFRACTORIES LIMITED, TATA SPONGE IRON LIMITED, TEK SYSTEMS, ADP, MU-SIGMA, CAPGEMINI, HASHWORKS, WORK APPLICATIONS, NOWFLOATS, VARDHMAN, TECH MAHINDRA, WIPRO, INFOSYS, GUPTA POWER, ALOK IND, JK PAPER, ADANI POWER, JINDAL STEEL & POWER LTD, JINDAL STEEL LIMITED and many others.

The placement committee currently comprises of the following faculty members.

Dr. Durgesh Prakash Bagarty	Member (Elect.)
Dr. Bibhu Prasad Dash	Member (Textile)
Dr. Aswini Kumar Dash	Member (Fashion)
Prof. Sanjit Kumar Dash	Member (IT)
Prof. Susmita Pal	Member (MCA)
Prof. Manoranjan Panda	Member (CSE)
Prof. Jitendra Naik	Member (Mechanical)
Prof. Biswajit Majhi	Member (Civil)
Prof. Pramodini Sahu	Member (Civi)

Contact details:-

Dr. Saroj Kumar Pradhan

Training and Placement Officer

College of Engineering and Technology
Techno Campus, Mahalaxmi Vihar, Ghatikia
Bhubaneswar - 751029, Odisha.

Phone No.: +91-9437157631.

Email- placement@cet.edu.in, skpradhan@cet.edu.in

LinkedIn : <https://www.linkedin.com/in/dr-saroj-kumar-pradhan-a15b2b96/>

Prof. Minakhi Behera
 Prof. Debi Prasad Dash
 Prof. Bijay Kumar Ekka
 Prof. Suraj Kumar Nayak
 Prof. Biswajit Samantray
 Prof. Bhawani Sankar Sa

Member (Electrical)
 Member (Instrumentation & Electronics)
 Member (Instrumentation & Electronics)
 Member (Bio-Technology)
 Member (M.Sc.)
 Member (Planning)

Sl. No.	Branch	Placement status during last 4 years							
		2018-19		2017-18		2016-17		2015-16	
		Total No. of students	Total Placed	Total No. of students	Total Placed	Total No. of students	Total Placed	Total No. of students	Total Placed
1	Civil		27	35	26	31	23	29	29
2	CSE		42	62	54	66	55	67	67
3	Electrical		70	55	45	54	43	48	48
4	I & E		62	38	36	33	33	29	29
5	IT		40	57	43	62	48	57	57
6	Mechanical		60	55	54	54	51	48	48
7	MCA		17	29	10	30	6	32	16
8	Textile		16	32	25	32	30	38	38
9	F&AT		04	15	5	15	7	28	28
10	BIO Technology		02	24	5	30	14	28	28
11	M.Tech		04						
12.	M.Sc./Int.M.Sc		20						
	Total		367	392	303	407	310	404	388

PLACEMENT STATUS 2019-20

Sl. No.	Company Name	No. of Students Recruited
1	TCS	128
2	ACCENTURE	134
3	ROBERT BOSCH	25
4	INFOSYS	29
5	ITC INFOTECH	12
6	NINELEAPS	01
7	KREETI TECHNOLOGIES	01
8	GYANSYS	06
9	FACTSET	04

10	MARUTI SUZUKI INDIA LIMITED	05
11	DELOITTE	17
12	VEDANTA	09
13	GODREJ & BOYCE MANUFACTURING LTD.	01
14	MU-SIGMA	04
15	TATA ADVANCED SYSTEM	04
16	INCTURE TECHNOLOGIES	05
17	TATA STEEL	05
18	ANALOG DEVICES	02
19	AJATUS	03
20	IBM	06
21	PRADAN	06
22	TATA STEEL BSL	05
23	THOOMRI	07
24	COGNIZANT	14
25	SYMPHONY TALENT	01
26	MACLEODS PHARMACEUTICALS	12
27	GENPACT	12
28	CAPGEMINI	03
29	GUPTA POWER	02
30	EUROFINS	01
31	TEJAS NETWORKS	04
32	TRL-KROSAKI	01
33	WIPRO	02
34	JK PAPER	05
35	WINDMOLLER & HOLSCHER	02
36	RED HAT	03
37	SERVO MEDHA DRIVES	01

38	BETTERBANK	01
39	PHOENIX ROBOTIX	01
40	RUNAYA REFINING	01
	Total Jobs offered	485

Highest Package: Rs. 17,42,000/-, Lowest Package: Rs. 2,40,000/-, Average Package: Rs.4,93,850/-

The institute has placed around 60% of the students in job criteria. Out of the rest student some got admission in higher studies, some in management stream, and some are looking for entrepreneurship.

Summer Internships:

Below is provided the students have taken summer internship during 2019-2020 in various Organizations.

Organization Name	No. of Student
Hindustan Aeronautics Limited, Sunabeda	71
Hindustan Aeronautics Limited, Bangalore	2
IOCL, Paradip Refinery, Paradip	9
Paradeep Phosphates Limited (PPL), Paradeep	4
Paradip Port Trust, Paradip	1
Indian Farmers Fertiliser Cooperative Limited, Paradeep	1
IFFCO, Paradeep	4
National Academy of Broadcasting & Multimedia, Chandrasekharpur, Bhubaneswar	2
Larsen & Turbo Limited, Kansbahal, Sundergarh	4
Tech Mahindra, Visakhapatnam	2
Institute for Development and Research in Banking Technology, Hyderabad	1
Delhi Metro Rail Corporation Ltd. (DMRC), Delhi	1
Indian Oil Bhavan, Bhubaneswar/ L&D, Kolkata	3
M N Dastur & Company (P) Ltd., Kolkata	0
PEL-PPCPL-HCPL, Nashik	1
Tata Motors, Jamshedpur, Jharkhand	3
Tata Steel Limited, Jamshedpur	3
Rashtriyaspat Nigam Ltd., Visakhapatnam Steel Plant, Visakhapatnam	14
IREL, Chhatrapur, Ganjam	7
Bharat Heavy Electronics Limited (BHEL), Bangalore	2
Bharat Heavy Electronics Limited (BHEL), Bhopal	1
Bharat Heavy Electronics Limited (BHEL), Hyderabad	0
Bharat Dynamics Limited, Hyderabad	1
Tata Steel Alloys Limited, Gopalpur, Odisha	3
Proof & Experimental Establishment, DRDO, Chandipur	5
Integrated Test Range, DRDO, Chandipur	16
CSIR-IMMT, Bhubaneswar	16
Regional Medical Research Centre, Bhubaneswar	2
TCS, Bhubaneswar	6

ITC Infotech Ltd., Kolkata	1
Microsoft	1
Fluentgrid Limited, Visakhapatnam	0
Siemens India Limited, Mumbai	2
GainwellCommosales Private Limited, Greater Noida, Uttar Pradesh	1
East Coast Railway, Bhubaneswar	37
East Coast Railway, Cuttack	2
S.E. Railway, Tatanagar, Bondamunda	5
RSP, Rourkela	108
SAIL ISP, West Bengal	1
NTPC SAIL Power Company Limited (NSPCL), Rourkela	4
Hindalco Industries Limited, Hirakud, Sambalpur	2
Aditya Aluminium, Hindalco	1
Main Dam Division, Burla, Sambalpur	3
Apar Industries, Rengali, Sambalpur	0
Hirakud Hydro Electric Project, Burla, Sambalpur	8
Rengali Hydro Electric Project, Angul	1
Odisha Hydro Power Corporation Limited, Angul	1
OHPC, Burla, Sambalpur	1
Mahanadi Coalfields Limited, Burla, Sambalpur	8
Dalmia Cement Bharat Limited, Rajgangpur, Sundargarh	0
OHPC, Kolab, Koraput	1
NTPC, Angul	63
Tata Power Co. Ltd., Jajpur	1
NTPC Ltd., Vindhya Nagar, Madhya Pradesh	1
Jindal Steel & Power Limited, Angul	5
Neelachallspat Nigam Limited (NINL), Jajpur	7
Jindal Steel Limited, Jajpur	9
MESCO, Jajpur	2
Visa Steel Limited, Kalinga Nagar, Jajpur	2
Aarti Steels Limited, Cuttack	0
IMFA, Choudwar, Cuttack	2
IDCOL Ferro Chrome & Alloys Limited, Jajpur	1
NALCO, Bhubaneswar	8
NALCO, Angul	124
NALCO, Damanjodi, Koraput	9
Betnoti Canal Division, Subernarekhalrigation Project, Baripada	4
Keonjhar Drinking Water Supply Project, Keonjhar	4
Rural Development Department, Aul, Kendrapara	1
Balasore Alloys Limited, Balasore	0
Emami Paper Mills Limited, Balasore	0
Ferro Alloys Plant, Tata Steel, FAMD, Joda, Keonjhar	2
Power Grid Corporation of India Limited, Kenapali, Sundargarh	1
NHAI, Bhubaneswar	4
National Highways, NirmanSoudha, Bhubaneswar	31
Infrastructure Development Corporation of Odisha, IDCO Tower, Bhubaneswar	5
BijuPatnaik International Airport, Bhubaneswar	10

Odisha State Cooperative Milk Producer Federation Limited, Bhubaneswar	0
BSNL, Bhubaneswar	6
Care Transformer, Bhubaneswar	2
Go Speedy Go, Bhubaneswar	1
Reliance JioInfocomm Limited	1
OCAC, Bhubaneswar	1
Central Circle (R&B), Bhubaneswar	53
Roads & Buildings, Division-1, Cuttack	9
Puri Roads & Buildings, Puri	3
PWD Department, Puri	6
Roads & Buildings Division, Jharsuguda	1
Roads & Buildings Division-1, Balasore	1
Roads & Buildings Division-2, Balasore	1
PWD Division, Bhubaneswar	7
Odisha Bridge & Construction Corporation Limited, Bhubaneswar	12
Rural Works & Public Health Division, Bhubaneswar	1
Works Department, Unit-5, Bhubaneswar	2
Water Resources Department, Bhubaneswar	14
PH Department, Bhubaneswar	1
Water Resources Department, Jobra	5
Rural Works Department, Bhubaneswar	4
Rural Works Department, Nabarangpur	1
Rural Works Department, Division-1, Cuttack	0
Chief Engineer Design, SechaSadan, Bhubaneswar	2
Engineer-In-Chief (Civil), NirmanSoudha, Bhubaneswar	4
Engineer-In-Chief (Civil),PWD, NirmanSoudha, Bhubaneswar	1
P&A, IDCO Tower, Bhubaneswar	1
Prachi Division, Bhubaneswar	3
Flood Control & Lower Mahanadi Basin, Bhubaneswar	5
CPWD, Pokhariput, Bhubaneswar	4
Mahanadi Barrage Division	1
OPTCL, Bhubaneswar	22
CESU, Bhubaneswar	6
CESU, Cuttack	1
Eastern Regional Load Despatch Centre, POSOCO, Tollygunge, Kolkata	6
West Bengal Power Development Corporation Ltd., Kolkata	1
Power Grid Corporation of India Limited (PGCIL), Bhubaneswar	1
SOUTH CO, Berhampur	1
IIT, Bhubaneswar	10
IIT, Roorkee	1
IIT, Khargapur	2
IISER, Berhampur	2
Vedanta Limited, Jharsuguda	7
Bhushan Power & Steel Limited, Jharsuguda	2
Honda Motorcycles and Scooters India Private Limited (HMSI), Gurgaon, Haryana	1
Maruti Suzuki India Limited (MSIL), Gurgaon, Haryana	1
TRL Krosaki, Jharsuguda	6

OPGC, Jharsuguda	1
C.A. Patel Textiles Pvt. Ltd., Ahmedabad, Gujrat	2
SambalpuriBastralaya, Bargarh	11
Northen India Textile Research Association (NITRA), Garment Division, Ghaziabad	8
Weaven Service Centre (WSC), Saheed Nagar, Bhubaneswar	12
Bombay Textile Research Association (BTRA), Mumbai	10
Arvind Limited, Ahmedabad, Gujrat	2

Intra- and inter-cultural festivals: There are many intra- and inter-cultural activities that take place in the campus as well as outside. One such technical intra- and inter-techno cultural activity are 'Hackathons'.

Sports Activities:

GAMES AND SPORTS FACILITIES

The college has an athletic society. One senior faculty serves as the vice-president of the society with nominated student body. The society conducts all types of sports activities. The college is hosting annually one tournament "Engineers Cup" in cricket where many engineering colleges participate. The college has separate fields for cricket, football, basket ballete.

Sports Prizes in the Year 2019-20

CRICKET:-

1. Winner in IUSM held in Veer SurendraSaiUnviersityOf Technology,Burla.
2. Winner in the Inter college CRICKET tournament held at SRI SRIUNIVERSITY,Cuttack.
3. Winner in the Inter college CRICKET tournament held atNLU-Cuttack.
4. Winner in the Inter college CRICKET tournament held atIIIT-Bhubaneswar.
5. Winner in the Inter college CRICKET tournament held atOEC- Bhubaneswar.
6. Winner in the Inter college CRICKET tournament held atIMI, Bhubaneswar.
7. Semi Finalists at the Inter College CRICKET tournament held atNIST-Berhampur.

FOOTBALL:-

1. Semi Finalists at IUSM held in Veer SurendraSai University of technology, Burla.
2. Semi-finalists at the Reliance Inter college FOOTBALL championship,Bhubaneswar.

TABLE-TENNIS:-

1. Winner of the Inter College TABLE-TENNIS championship held at NLU, Cuttack.

BADMINTON (Boys+Girls):-

1. Runners-up at the Inter college BADMINTON tournament held at Veer SurendraSai Universityof technology, Burla.
2. Runners Up at the Inter College BADMINTON tournament held atAIIMS-Bhubaneswar.
3. Semi Finalists in the Inter College BADMINTON tournament held atNLU-Cuttack.

BASKETBALL (Boys+Girls):-

1. Participants at the Inter College BASKETBALL tournament held at Silicon Institute OfTechnology, Bhubaneswar.
2. Girls' Basketball team were the Finalists in the Inter College Basketball tournament held at Birla Global University,Bhubaneswar.
3. Sumitra Swain of CET- Girls' Basketball team was selected for the Odisha Senior State Basketball Championship 2019.
4. SonaliMajhi of CET- Girls' Basketball team has been selected for the Odisha Senior State Basketball Championship 2020 and also selected for the Junior National Basketball Championship.

Cultural Prizes in the Year 2019-20

MUSIC:-

1. One of the members was awarded "AkshayMohantySamman" by Cine Critic Association Odisha 2019.
2. One of members was invited to perform at Dubai Nights, 2019.
3. Winners at the XIMB Cult-Fest, 2020.
4. Winners at the Sinfonietta, 2020(Western) Competition.
5. Members bagged Second Prize at Acoustica- 2020.
6. One of members was invited to perform atRamoji International Conference, Hyderabad.
7. Members were invited to perform at RAAHAGIRI- BBSR, 2019.

DANCE:-

1. Crew Members- Winners of Footloose - Dance Competition, held at IIIT, Bhubaneswar.
2. Dance Crew Members became Semi-Finalistsat"Shuffles" of IIT Kharagpur's Cult-fest: SpringFEST.
3. Crew Members bagged Second Position at "Orion", Cultural Fest of Sri Sri University, Cuttack.
4. Kevin Joseph of Black Ice International Crew, Bangalore was invited as the Judge of BurnOut in Xtasy, 2020 – the Official Cultural Fest of CET-B.

DRAMA:-

1. Members were Winners and were selected for one of the biggest Short Film Making Competition in Asia - Indian Film Project- at Shri Shri University.
2. Members grabbed First Position in Stand-up Comedy at IIIT Bhubaneswar- Cultural Fest.
3. Members bagged Runners Up position in Mono-Act Competition at Cultural Fest of Calcutta.
4. Dramatic Performance secured the First as well as the Second place at the Cultural Fest of IIT Bhubaneswar,2019; &the members also got Special Mention at the Cult-Fest of ITER,Bhubaneswar.
5. The dramatic works by the members got featured in The Bhubaneswar Poetry Club and The Poetic House.

SOFT SKILL DEVELOPMENT FACILITIES:

The college has a language lab where the soft skill of the students is developed. Many experts are invited to interact with the students through different sessions for the development of soft skill and group discussion abilities.

Department-wise GATE Qualified Data:

FINAL YEAR GATE PERFORMANCE OF THE YEAR 2019-20								
SL. NO	BRANCH	TOTAL NO. OF STUDENTS	GATE APPEARED	GATE QUALIFIED	SUCCESS RATE (%)	OUTSIDE TUTORING / SELF STUDY	GATE ACADEMY STUDENTS	TOTAL STUDENTS TAKEN COLLEGE COURSE
1	ME	149	106	34	32.07	16	18	50
2	EE	143	102	45	44.11	24	21	46

3	CE	135	96	20	20.83	8	12	53
4	IEE	136	47	20	42.55	17	3	32
5	CS E	76	41	18	43.9	14	4	15
6	IT	66	17	6	35.29	3	3	15
7	BT	19	16	5	31.25	0	5	15
	TOTAL	724	425	148	34.82 %	82	66 (29.20%)	226

**STUDENTS DID NOT TAKE GATE ACADEMY
COURSE**

SL. NO	BRANCH	TOTAL NO OF STUDENTS	GATE APPEARED	GATE QUALIFIED	SUCCESS RATE
1	TE	72	33	2	6.06
2	B PLAN	34	13	6	46.15
3	MSC	19		2	

Examination and Evaluation System:

The institute follows two patterns of examination at present, one is guided by the rules and regulations of the BPUT University and the other one is by itself (due to academic autonomous status). After 2 more years the institute will follow its own examination pattern. The result publication and credential distribution at present is performed by BPUT University and CET, BBSR for both systems as provided above.

The timely publication of result is a major strength of the University and Institute. One internal examination, Quiz / assignment / technical presentation given due weightage. Showing answer script to the students before the publication of result makes the system more transparent. Timely publication of results have highest priority for the Institute and University.

Mid-semester examination/repeat mid-semester examination, end-semester examination and supplementary examinations are conducted by the University and Institute.

Internal evaluation for each theory paper in a Semester is done for 50 marks. The division of mark is done in the pattern: assignment- 5 marks, surprise test- 5 marks, quiz -10 marks and two class tests of each 1 hour duration- 20 marks. The internal pass mark out of 50 is 25. External evaluation for each theory paper is made through University examination at the end of the semester through a 3 hours exam duration with of full mark, 100. The pass mark for University exam is 35 out of 100.

For Practical/Sessional subjects in each semester, evaluation is made out of 50 marks for each subject. Pass mark is 25 out of 50. The evaluation scheme is made in the manner; daily performance -10 marks, lab. record- 10 marks, lab. quiz- 5 marks, final experiments & Viva-Voce- 25 marks.

Assignment + Quizzes (5+5=10) marks

Mid-Semester Examination 20 marks

End Semester Examination 70 marks

TEQIP-III

The College is proud to receive grants from World Bank through MHRD, Govt. of India under Technical Education Quality Improvement Programme-II (TEQIP-II) (Subcomponent 1.1) towards improvement in teaching, learning, training and employability process. Under this TEQIP scheme the College has been ranked

as a top performer at National level obtaining 10 point out of 10 score in All India level as evident from the NPIU website. This project started in April, 2012 and it will continue till December, 2016. Till date, we have received financial grant of Rs. 3.875 crores in 1st Phase out of Rs. 10.0 crores for various Departments. Also proportionate fund is utilized towards training of faculty members in top-level foreign universities for enhancement of advanced knowledge in Engineering/Basic Sciences fields and technical staff, organizing seminar/ conferences, establishing Finishing Schools, academic support for weaker students etc and other related workshops for developmental work to strengthen the Institute in teaching, learning and employment in academics, research, consultancy and other services. Under this scheme, till 2014-15 academic session, financial assistanceship to 34 numbers of Non-GATE M. Tech. students amounting to Rs. 8000/- per month per student are provided. Similarly, through TEQIP the College is admitting full time regular Ph.D. students in various Departments with financial assistanceship of Rs. 18,000/- per month per student to the selected candidates. At present, 16 Ph. D. students in various Departments are working on full-time regular basis. This TEQIP-III programme is supervised by the Board of Governors (BOG) of TEQIP and Principal through a regulated TEQIP Cell having TEQIP Coordinator, various Nodal Officers and faculty members.

TEQIP has its own Board of Governors (BOG)

The TEQIP Cell of College consists of following faculty members:

- | | |
|--|---------------|
| 1. Prof. P. K. Patra, Principal, CET | -
Chairman |
| 2. Prof. L. N. Panda, TEQIP Coordinator | -Member |
| 3.. Prof. K. N. Das, Nodal Officer, Financial Aspects, TEQIP CELL | -Member |
| 4. Dr. P. K. Parida,, Nodal Officer, Procurement, TEQIP CELL | -Member |
| 5. Dr. F. Baliarsingh, Nodal Officer, Civil Works & Environmental Management, TEQIP CELL | -Member |

Various activities under this TEQIP-II and TEQIP III in different Departments of the College have been conducted since April, 2012 till date.

1. Finishing School on "MATLAB Training" during 27th Nov., 2012 to 12th December, 2012 organized by Computer Science & Engineering Department.
2. Short term course on "Fermentation & Enzyme technology" during 1- 5 Feb., 2013 organized by Biotechnology Department.
3. Workshop on "Mobile Web Applications" during 5-9 Feb., 2013 Tganized by Information Technology Dept
4. Short term course for FDP during 15th Mar.-20 Mar, 2013 organized by CE Dept.
5. One day Workshop for FDP on 23/03/2013 "Geotechnical Investigations" by Civil Engg. Dept.
6. International Conference on "Innovation in Textiles" during 12-13 April, 2013 organized by Textile Engineering Department.
7. Remedial Classes for academic weak students on "Data Structure" jointly organized by CSE & IT Department during 24th April, 2013 to 18th May, 2013.
8. Workshop on "Molecular Markers & Gene Cloning Techniques" during 19-21 Sept., 2013 by BT Dept.
9. Short term course on "Quantum Chemistry" during 23-28 Sept., 2013 by Chemistry Dept.*
10. Finishing School-cum-Remedial Class on "Data Communication and Computer Network" during 26th Sept., 2013 to 10th October, 2013 organized by Computer Science & Engineering Department.
11. Finishing School-cum-Remedial Class on "Theory of Computation" during 26th Sept., 2013 to 10th October, 2013 organized by Computer Science & Engineering Department.
12. Faculty Development Programme on "Advance Database System Concepts, Design & Practices" during 23rd Oct., 2013 to 7th Nov., 2013 organised by IT Dept.

13. Workshop on "Quality Engineering & Six Sigma" during 2-6 Dec., 2013 organized by Mech. Eng. Dept.*
14. International Conference on "Web Engineering Application" during 18-21 Dec, 2013 organized by IT Dept.
15. Short term training Programme on "Phytochemicals in Biotechnology and Textile Industry" during 17-23 Jan., 2014 jointly organized by TE and BT.
16. FDP on "Soft Computing Techniques in Engineering Applications", during 20-24 Jan., 2014 organized by Mech. Engg. Dept.*
17. National Seminar on "Grid Management" during 30 Jan., 2014 to 1st Feb., 2014 organized by Electrical Engineering Department.*
18. FDP Programme department of Civil Engineering on the topic , " Advances in Engineering Materials Towards a Sustainable Construction" 12-17, February, 2018
19. FDP Programme Department of Mechanical Engineering on "Computational Fluid Dynamics and its Applications in Engineering and Sciences" 19-23, February, 2018
20. FDP Programme department of Physics on ' Fronties In Experimental and Theoretical Physics" 24-27, April, 2018
21. FDP Programme department of Chemistry on "Recent Advances in Materials Characterization using Conventional and Nuclear Techniques" 9-13, October., 2018
22. FDP Programme Department of I & EE on " Signal Processing in Instrumentation and Communication Recent Advances" 25-30, March, 2019
23. FDP Programme Department of Electrical Engineering on "Challenges in Operation control and Management of Modern Power System (COCMMPs-2019) 12-16, March, 2019
24. FDP Programme Department of Civil Engineering on topic "National Workshop & Hands-on Training for Remote Sensing Applications" 16-21, September, 2019
25. FDP Programme Department of Civil Engineering on topic "Latest Advances in Concrete Technology & Construction Management" 1-5, September, 2020
26. FDP Programme Department of Biotechnology on topic "Recent Development in Chemical Biology and Drug Discovery (RACBDD-2020)" 14-18, September, 2020
27. FDP Programme Department of IT on topic "Recent Advances on Computational Techniques" 19-23, September, 2020
28. FDP Programme Department of Mechanical & Electrical Engineering on topic "Recent Trends and Advances in Robotics and Automation" 21-25, September, 2020
29. FDP Programme Department of I & EE on topic "Signal Processing Applications" 21-25, September, 2020

Besides of the above activities at College level, faculty members, M. Tech. students and research scholars have been participating and presenting their research papers at various National/ International Conferences conducted in India and abroad under the above scheme. Also, they have been attending various Managerial /Technical and Academic Training Programmes at various reputed institutes like NTs, IIMs. Establishment of Smart Class room in all the Engineering Departments under this scheme will be implemented very soon.

Financial Information of CET, BBSR (2019-2020)

Receipt and Expenditure in 2019-20

Head

Receipt in Rs.

Expenditure in Rs.

Non-plan grants (Adm. Expenditure-EO & ME scheme)	269800000	269800000
Plan grants (programme expenditure)	150000000	100000000
SSP (Tuition fee from fee and lab. Mainly fee collected from the students)	38128500	37536668
Regular (Tuition fee, Exam. Fee & Lab. Maintenance fee)	57968550	53526413

Internal Revenue Generation

Head	Cost in Rs.
Consultancy fee	5877899
Application for admn. fee and walk-in interview fees	265630
Tender fees	58080
Rent from bank	360000
Total	6561609

Financial Information of TEOIP-III (2019-2020)

Particulars	Exp. In Rs. During FY 2019-20	Total Exp. In Rs. Up to FY 2019-20
Equipments (1.1.1.1)	41915846	56885002
Faculty/Staff Development and Motivation (1.1.2.4)	3794327	5514838
Furniture (1.1.1.3)	458407	458407
Graduate Employability (1.1.2.3)	12376322	17512122
Hiring of Vehicles (1.1.3.5)	180	13743
Improve Students Learning (1.1.2.1)	8686171	13387037
Industry Institute Interaction (1.1.2.11)	372897	972751
Learning Resources (1.1.1.2)	5467960	13025665
Management Capacity Development (1.1.2.9)	549844	625863
Meeting (1.1.3.4)	334252	613163
Meeting/Twining System (1.1.2.7)	453596	631766
Office Expenses (1.1.3.3)	150705	204628
Operation & Maintenance of Equipment(1.1.3.2)	1122451	1122451

Quality Teachers (1.1.4.1)	8134425	17771739
Reforms and Governance (1.1.2.8)	1153198	2617098
Research Development (1.1.2.5)	1041922	1147217
Travel Cost (1.1.3.6)	292353	946219
Grand Total	86304856	133449709