

CHRISTIAN COLLEGE OF ENGINEERING AND TECHNOLOGY

Run by St. Thomas Malankara Orthodox Syrian Church Mission, Bhilai

Estd.1998, Reg.No. M.P. 8400/24.10.79

www.ccetbhilai.ac.in

St. Thomas Mission Bhilai – Mission of North India was founded in 1972. With the creation of the Kolkata Diocese of the Orthodox Church in 1979, the activities of the St. Thomas Mission became more extensive spreading light of knowledge to the mankind.

The Christian College of Engineering and Technology functions under the aegis of the St.Thomas Mission of the Malankara Orthodox Church, which operates More than two dozen schools and colleges in Central and Eastern India.

The mission's activities later spread out to cover Madhya Pradesh, Orissa, Bihar, West Bengal, Assam and Nagaland which include educational institutions, health service centers, balagrams, rehabilitation centers, village mission ashrams and convents. In February 1998, the Mission celebrated the 25th anniversary of its foundation and to mark the occasion several initiatives taken by the mission in Northern part of India Christian College of Engineering and Technology was one among them.

Christian College of Engineering & Technology, Bhilai, formerly known as M.P. Christian College of Engineering & Technology, is a Private Engineering college located in Bhilai, Chhattisgarh the “Rice Bowl” of India. The city is famous for its Steel and Chemical Industry notably, the Bhilai Steel Plant. Bhilai, known as a Steel city is a centrally located and well connected to all the parts of the country by air, rail and road. Due to its cosmopolitan culture, the city has emerged as one of the growing Educational hubs of Central India. Many professional renowned institutions such as IIT, IIM are situated in Bhilai and in the Capital (Raipur) of Chhattisgarh ,which ranks amongst the most dynamic, progressive and fascinating of Central India.

The college is located at a beautiful lush green landscape, free from polluted environment and excellent atmosphere and ambience ideally suited for growth of the sound, soul & mind. CCET, Bhilai is the 3rd Oldest Private Engineering College in the state of Chhattisgarh and the 2nd Oldest in the city of Bhilai.

Vision

“CCET will be the center of excellence by providing quality technical education inculcating high moral and social values with a human face thereby providing world class competent engineers for the progress and transformation of society”.

Mission

Mission of the Institution:

- ♦ Run accredited Graduate and Post-Graduate programmes.
- ♦ Have state-of-the-art infrastructure facilities.
- ♦ Develop effective partnerships with industries.
- ♦ Transfer appropriate technology to society.

- ♦ Ensure placement of all students through campus interviews.
- ♦ Offer quality teaching and learning environment.
- ♦ Help in the upliftment of society by offering need based technical education facilities.
- ♦ Ensure quality services for all aspects of the campus.
- ♦ Create an ambience for the total development of staff and students.
- ♦ Become a deemed university.

Basic Information

Name and Address of the College	
Name	CHRISTIAN COLLEGE OF ENGINEERING AND TECHNOLOGY
Address	Christian College of Engineering and Technology, Dr Stephanos Mar Theodosius Road, Kailash Nagar, Near Industrial Estate, Bhilai, Dist - Durg (CG) 490026 India
City	Bhilai
State	Chhattisgarh
Pin	490026
Website	www.ccetbhilai.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Dipali Soren	0788-2286662	9981991419	0788-228666 2	principal.011.csvtu @gmail.com
IQAC / CIQA coordinator	Archana Chowdhary	0788-2286663	9826141686	0788-228666 2	drarchana@ccetbhi lai.ac.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	Minority Certificate.pdf
Religious	Christian Minority

- ❖ **Year of establishment of the Institution:** 1998-99
- ❖ **Name and Address of the Affiliating University:** Chhattisgarh Swami Vivekanand Technical University,(CSVTU) Newai, P.O.-Newai, District-Durg, Chhattisgarh, PIN-491107
- ❖ **Statutory Regulatory Authority:** AICTE, New Delhi
- ❖ **Name of Trust/Society:** St. Thomas Malankara Orthodox Syrian Church Mission, Bhilai
- ❖ **Other Academic Institutions of the Trust/Society:**

S.No.	Name of Institutions under the Society	Year of Establishment	Std/ Course
	Colleges		
1	<u>Bhilai, Christian College of Engineering and Technology</u>	<u>1998</u>	<u>Engg. College</u>
2	Bhilai, St.Thomas College	1984	P.G College
3	Nagaland, MGM College	2017	Graduation college
	Schools		
4	Bhilai, Mar Baselious Vidhya Bhavan	1990	Sr. Secondary CBSE
5	Bhilai, MGM Public School	2015	UPS
6	Bhopal, MGM Co-Ed School, (Subhash Nagar)	2012	UPS
7	Bhopal, MGM Co. Ed. Higher Secondary school (Cannan Gardern)	1997	Sr. Secondary CBSE
8	Bilaspur, MGM High School	1999	Sr. Secondary CBSE
9	Bokaro, St. Mary's Nursery School	1976	Pre-Primary School
10	Bokaro, MGM Sr. Sec. School	1988	Sr. Secondary CBSE
11	Makodia, MGM Co. Hr. Sec. School	1993	Sr. Secondary State Board
12	Dhanpuri, MGM School	2000	Hr.Secondary ICSE
13	Dhanpuri, Gopalpur, MGM Public School	1999	Pre-Primary School
14	Dimapur, MGM Higher Secondary School	1985	Sr. Secondary State Board
15	Hathital, MGM School	2016	Sr. Secondary ICSE
16	Itarsi, MGM English Medium Hr. Sec School	1992	Sr. Secondary CBSE
17	Itanagar, St.Mary's Mission Pre school	2014	Primary School
18	Jabalpur, St. Mary's H.S.School	1996	Sr. Secondary State Board
19	Jagdapur, MGM School	2002	Sr. Secondary State Board
20	Jamshedpur, St. Mary's Nursery School	1998	Pre-Primary School
21	Kolkata, St. Gregorios Primary School	2007	Primary School
22	Korba, Kamalini, MGM Nursery School	2007	Pre-Primary School
23	Korba, MGM School	1980	Sr. Secondary State Board
24	Patna, MGM School	2014	Hr. Secondary State

			Board
25	Raipur, MGM Higher Secondary School	1992	Sr. Secondary CBSE
26	Rajnandagaon MGM Public school	2016	Primary School
27	Ranchi, St. Mary's Nursery School	1992	Pre-Primary School
28	Rourkela, Chend MGM Kindergarden	1997	Pre-Primary School
29	Rourkela, MGM English School	1966	Sr. Secondary ICSE
30	Sagar, St. Gregorios school	2002	Primary School
31	Sarni, MGM Senior Secondary School, Bagdona	1994	Sr. Secondary CBSE
32	Tatibandh, MGM Public School	1992	Pre-Primary School
33	Naya Raipur, MGM Model School	2018	Middle School

❖ Location

Bhilai, known as a Steel city is a centrally located and well connected to all the parts of the country by air, rail and road. It is the Industrial City and Educational hub of Chhattisgarh State.

CCET is located in Bhilai, Chhattisgarh the “Rice Bowl” of India. The city is famous for its Steel and Chemical Industry notably, the Bhilai Steel Plant. Due to its cosmopolitan culture, the city has emerged as one of the growing Educational hubs of Central India. Many professional renowned institutions such as IIT, IIM are situated in Bhilai and in the Capital (Raipur) of Chhattisgarh (21.2297° N, 81.3593° E), which ranks amongst the most dynamic, progressive and fascinating of Central India.

The college is located at a beautiful lush green landscape, free from polluted environment and excellent atmosphere and ambience ideally suited for growth of the sound, soul & mind. It is on the Mumbai - Kolkata Highway 4 Km from the Bhilai Power House Railway Station and Central Bus Stand. It is also connected to other railway stations Durg, Kumhari, Bhilai Nagar and Bhilai 3 and is 40 Km from Swami Vivekananda Airport, Raipur.

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Christian College of Engineering and Technology, Dr Stephanos Mar Theodosius Road, Kailash Nagar, Near Industrial Estate, Bhilai, Dist - Durg (CG) 490026 India	Rural	17.44	29176.48

❖ Academic Information

Regular Academic Programmes:

The Institution offers 4 Under Graduate Programs viz. B.E. in Computer Science, Electronics & Tele-Communication, Electrical and Mechanical Engineering. The Institution also offers three Post Graduate full time programs (2 years duration) viz. M.Tech- CAD-CAM Robotics, M.Tech-Nano Technology and M.Tech High Voltage Engineering..

The Institution also offers Doctoral Research Ph.D (full time) program in Electronics & Telecommunication Engineering, Applied Mathematics and Applied Physics Department.

S.No.	Name of Program /Course	Entry Qualification	Sanctioned Strength	Year of Start	AICTE approval
B.E./UG Courses					
1.	B.Tech, Computer Science and Engineering	HSC	60	1998-99	F.No.761-81-003 (NDEG)/ET/98 dt.16/07/1998
2.	B Tech, Electrical Engineering	HSC	30		
3.	B Tech, Mechanical Engineering	HSC	30		
4.	B Tech, Electronics & Telecomm. Engineering	HSC	30		
M.Tech/PG Courses					
1	M Tech, CAD-CAM-Robotics	BE / BTECH	16	2008-09	F No 760-81-233(E)ET 98 02.07.2007
2	M Tech, Nano Technology	BE / BTECH	16	2013-14	F No.Central - 400489761/2011/EOA 01.09.2011
3	M Tech, High Voltage Engg.	BE / BTECH	16	2019-20	F.No. Central/1-4265981329/2019/EOA
Doctoral (Ph.D) Program					
1	Ph D, Electronics & Telecomm. Engineering	ME / MTECH		2017 - 18	
2	Ph D, Applied Mathematics	MSc /MPhil			
3	Ph D, Applied Physics	MSc /MPhil			

Applied for new courses for AY 2024-25

UG:

- Artificial Intelligence & Machine Learning
- Artificial Intelligence & Data Science

PG:

- Master of Computer Application (MCA)

Diploma:

- Computer Science Engineering
- Electrical Engineering
- Mechanical Engineering

❖ **Library as a Learning Resource**

The Central Library of CCET, Bhilai, serves as a pivotal resource center for the academic community, ensuring that students and staff have access to a wide array of materials to support their learning and research endeavors. The library's collection comprises approximately 56,000 documents, which include textbooks, reference books, and back volumes of journals. This extensive collection spans various disciplines, encompassing Engineering, Applied Science, Humanities, and other fields of knowledge. To stay abreast of the latest developments, the library subscribes to over 42 national and international print journals, granting members access to up-to-date information. In addition, multimedia services are readily available, with a dedicated e-document section housing 990 CDs and floppies.

Recognizing the diverse needs of different departments, each department at CCET, Bhilai, is equipped with its own library. This departmental library is enriched with donated books and materials borrowed from the main library, providing students and faculty with quick access to subject-specific resources.

To efficiently manage its vast collection, the library has implemented the KOHA software package, a comprehensive and integrated multiuser Library Management system. This software streamlines various internal processes, including membership procedures, bar-coding, acquisition, circulation, periodical subscriptions, multimedia, library browsing, and reservations. The computerised system enables users to search for bibliographic records through the OPAC (Online Public Access Catalogue), accessible via Intranet and the Internet. With the OPAC's user-friendly interface, patrons can search for resources using multiple criteria, such as author, title, subject, keywords, classification number, and publisher. Additionally, the OPAC provides timely information about recently acquired journals and books, keeping users informed about new additions to the library.

The library is strategically divided into several sections, each catering to specific needs and preferences of its users:

1. **Issue Section:** Facilitates book borrowing and returning processes for library members, ensuring smooth circulation of resources.
2. **Reference Section:** It houses valuable and in-depth resources to support academic research and reference needs
3. **Journals/Magazines Section:** It provides access to current and previous issues of numerous journals and magazines, fostering intellectual curiosity and knowledge dissemination.
4. **Project Report & Bound Journal Section:** It preserves project reports and bound journals, contributing to the institutional memory.
5. **Newspaper Section:** It offers newspapers to keep readers informed about current events and affairs.
6. **Xerox Section:** It provides photocopying services for the convenience of library users.
7. **Internet Surfing Zone/e-Library:** It equips users with access to e-books and online resources, promoting digital literacy and research capabilities.

The library opens its doors on all days of the week, with the exception of Sundays and holidays, catering to the diverse schedules of students and faculty members. During examination times, the reading section extends its operating hours to include Sundays and holidays from 10 am to 2 pm, providing additional support during crucial academic periods. Notably, the library maintains its services even during vacations, showcasing its commitment to the academic community's continuous growth and learning.

In conclusion, the Central Library of CCET, Bhilai, stands as a well-equipped, efficiently managed, and user-friendly facility.

❖ **IT Infrastructure**

The current status of internet facility of CCET is as detailed below:

Name of Internet Provider	Ishan Netsol Pvt ltd
Available Bandwidth	100 MBPS
Availability of Internet	Available in all 118 computers
Availability in faculty rooms	Yes
Institutes mail Facility to faculty/students	Yes for faculties only
Security/Privacy to Email/internet users	Yes

❖ Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- ♦ Completing 25 years ,CCET is running on values, honesty, sincerity, commitment and integrity towards the educational system and is one of the oldest colleges of the steel city.
- ♦ Institute has well qualified and highly dedicated Teaching and Non- Teaching Staff.
- ♦ Institute has a well-equipped infrastructure with a spacious built-up area.
- ♦ The outcome-based teaching method focused on employment and entrepreneurship.
- ♦ Management with a vision for imparting quality education and student welfare
- ♦ Adequate facilities for Teaching, Learning, Research and Extension activities.
- ♦ Students actively participate in industrial tours and educational visits.
- ♦ Women cell strives for gender equality and to provide a safe environment for female staff and students.
- ♦ Clean and Green campus is certified by government agency. Energy conservation through solar panel is a step taken by the institution.
- ♦ College has extended its efforts in association with nearby schools and colleges to promote community development.
- ♦ In Campus Boys and Girls Hostel managed by Priests and Nuns with all facilities like Gym, Yoga, Mess, Health centre, Bank (ATM) etc.
- ♦ Linkages and MoUs with leading institutions on the national level.
- ♦ ICT facilities are updated as per demands. Campus has free wifi facility.
- ♦ The COVID-19 epidemic has provided an opportunity to rethink instructional approaches and styles. Students and teachers have used online platforms such as Zoom, Webex, Google Meet, and Google Classroom to innovate and adapt to new ways of participation. Quality e-resources have enriched and augmented the teaching-learning process.
- ♦ The College lays strong emphasis on all round personality development of students through extra and co curricular activities.
- ♦ The College has student mental health promotion facilities including guidance and counselling cell and grievance redressal cell. Personal counselling is done for students who are in need. Activities undertaken by NSS cell to promote social welfare and inculcate a sense of social responsibility.
Research environment and importance given to faculty and student research.

Library with rich collection of books, National & International Journals. It is using Integrated Management system software.

Institutional Weakness

Institute is not a degree awarding body.

- ♦ Lack of flexibility in admitting students to degree programs and introducing innovative and job/entrepreneurial development degree program.
- ♦ Though Faculties have good number of publications but they lack in filing and acquiring patents.
- ♦ Absence of sufficient number of Research Centres are leading to limited research and publications by faculty.
- ♦ Being an affiliated institution to Chhattisgarh Swami Vivekananda University, Bhilai, the institution does not hold any autonomy in academic flexibility since we are implementing university curriculum.
- ♦ Data of students progression is not sufficient and needs to be strengthened.
- ♦ Many sanctioned student seats is not filled.
- ♦ Less collaboration activities and less national and international exposure to the faculty
- ♦ Students, being from rural areas, are striving to meet national and global standards in technical education and facing language barriers(English Language).

Institute has to upgrade its teaching community for more funded projects, quality research and development, patents and consultancy

Institutional Opportunity

- ♦ Introducing new courses relevant to changing time and improving teaching processes.
- ♦ Institute is regularly organizing various development programs for the benefit of teachers and students through seminars, workshops, conferences, symposiums and student meets.
- ♦ Research centres are needed in more departments. Since the number of faculty members have Ph.D. degree is good, there is scope of establishing Research Centres.
- ♦ To increase number of faculty development programs which results in creation of intellectual property rights, more high quality research papers and increased book publications is needed.
- ♦ There is sufficient scope for the college to enhance employability of students by bringing in new vocational and skill development courses.
- ♦ The college planning to establish Incubation cell – Already registered under ATAL Incubation Mission ---work in progress.
- ♦ Multidisciplinary research needs to be strengthened along with an active incubation cell.
- ♦ Opportunities for making available MOUs more functional , productive and increase these tie-ups internationally also.
- ♦ To become a Deemed University

Institutional Challenge

- ♦ Institute has competition from other technical Institutions and Universities.
- ♦ Limited resources because of the purely self financed college.
- ♦ Payment of fee by students coming from poor socio-economic backgrounds.
- ♦ To obtain NAAC and NBA accreditation for getting more funds for research activities/projects for achieving patents.
- ♦ To upgrade the institution to meet requirements for Autonomous status.
C.G being a tribal belt, the challenge is in motivating the interior tribal students for higher education. Less Career ambition among students due to influence of social background and inheriting family business.
Students with diverse background with diverse needs.

- ♦ Creation of vibrant research culture, motivating teachers for undertaking research projects , consultancy and encourage Multi-disciplinary Research.

❖ **Curricular Aspects**

CCET, affiliated to CSVTU, Bhilai, is committed to providing its students with a comprehensive and well-rounded education through its diverse academic programs. These include four undergraduates, three graduates, and three research programs, are designed based on the university's set curricula and syllabi, adhering to a semester schedule.

To enhance the academic experience, the college has conducted more than 30 Add-on programs over the last five years, in which 70% of the students participated. These additional courses offer students the chance to explore a variety of subjects beyond their main degrees.

Faculty members play a pivotal role in shaping the curriculum content and fostering the development of the students. Four faculty members from the college are esteemed members of the affiliated university's board of studies, contributing to academic decision-making in their respective subjects.

The college also places great importance on inculcating a value system in its students. It addresses cross-cutting issues such as professional ethics, gender equality, human values, and environmental sustainability as part of the syllabus across all undergraduate programs. This ensures that students are not only academically skilled but also equipped with a strong sense of social responsibility.

Experiential learning is another key aspect of the college's educational approach. Students are encouraged to engage in project work, fieldwork, and internships to gain practical experience and real-world skills.

The college is also dedicated to receiving feedback from various stakeholders, which is then analyzed and made available on the institutional website. This feedback system enables continuous improvement and ensures that the college stays responsive to the needs and expectations of students and other stakeholders.

❖ **Teaching-learning and Evaluation**

In Christian College of Engineering and Technology Bhilai, Learning and Evaluation systems have been designed for holistic growth of the students. The admission process is based on the regulations prescribed by the Directorate of Technical Education (DTE) Chhattisgarh state as well as the affiliating University. Admissions are given on merit basis with reservation for SC,ST,OBC and Minorities as per government norms.

Bridge courses are designed and carried out as foundational or introductory courses. They assist recently admitted students with updating their knowledge and abilities in order to meet the requirements for degree programs. The demands of the students were taken into consideration when creating these courses.

For efficient teaching and learning, student-centered methodologies and ICT tools are used. Additionally, there are rooms with top-notch amenities available. Field trips, industry visits, study tours, internships, and projects all ensure experiential learning. Group discussions, seminars, and guest lecturers that involve participation are

used. Methodologies for solving problems make it easier to use knowledge to tackle issues in the actual world.

The college prepare an academic calendar in accordance with the university calendar, internal test schedules, and daily and monthly lesson plans that are on notice boards..

Average enrolment percentage for the last 5 years is 18.9% and Teacher-Student ratio for the academic year 2020-21 is 23:1 For the last 5 years the average pass percentage is 91.35. During last five years , the number of faculty with PhD was 64.

The above practices facilitate the attainment of learning outcomes and students graduate from the college as professionals, ready to face new trends and challenges in their careers and life.

❖ **Research, Innovations and Extension**

The College as a whole is working to assist the process from ideation to innovation to market, and to speed up pre-incubation activities, the College has registered with the Institutional Innovation Council (IIC) under the Ministry of Education's Innovation Cell (MIC). The EDC (Entrepreneurship Development Cell) works towards self-employment skill based activities. This cell oversees the smooth and efficient coordination of research and development activities in the Institute, thus fostering overall growth. The entrepreneurship cell works with a goal to encourage students to create their own enterprises by recognising, educating, and encouraging them to do so. We organise seminars and workshops on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship.

The Research and development cell facilitates participation and paper contribution by teachers at various national and international conferences, seminars, workshops and faculty development programmes, to hone their research skills. Research papers have been published by the faculty members in UGC notified journals in the last five years. Our institute is working hard to spread the idea of energy conservation by conducting lectures in collaboration with CREDA (Chhattisgarh State Renewable Energy Development Agency).and Chhattisgarh council of Science and Technology Programmes based on research are frequently conducted to foster research. In this series various programs in collaboration with CREDA,CCOST,AICTE Atal FDP. Projects grants have been received from Chhattisgarh Swami Vivekananda Technical University under TEQIP.

CCET, Bhilai is the member of Coordinator Cell under CCOST ,Raipur under this we get a grants for conducting activities to promote research in different areas. The College has 3 recognized Research Centres in Electronics and telecommunication, Physics and Mathematics. Our faculties are registered Ph.D. Guides under CSVTU.

Under extension activities for the past six years, the CCET, Bhilai has a successful NSS unit. It was started with the simple intention of giving interested students a place to participate in social work activities. Our NSS units conduct various awareness programs on different themes every year to educate people and create a positive impact on society

❖ **Infrastructure and Learning Resources**

The institution boasts a comprehensive and state-of-the-art infrastructure that creates an ideal environment for effective teaching and learning. Equipped with modern audio-visual instruments, ICT-enabled classrooms

ensure dynamic and engaging educational experiences. Additionally, the LCD projectors in the classrooms and smart classrooms further enhance interactive learning.

To foster practical understanding, the institution provides 32 fully equipped laboratories for undergraduate, postgraduate, and Ph.D. students, enabling hands-on learning across various fields. The uninterrupted electricity supply, facilitated by generators and solar panels, guarantees seamless learning even during power outages.

The college's fully automated library is a treasure trove of knowledge, featuring an extensive collection of books covering diverse disciplines. Moreover, the e-library grants access to e-journals through INFLIBNET and N-LIST, enabling students to access cutting-edge research and academic resources.

To cater to technological needs, the institution offers well-equipped computer labs with reliable Wi-Fi connectivity across the entire campus, ensuring students can access a wealth of online resources. Furthermore, a substantial allocation of the annual budget ensures continuous upgrades and maintenance of the infrastructure, library, and learning resources, supported by the valuable recommendations of the respective committees.

The institution also recognizes the importance of a balanced education and provides ample sports and extracurricular facilities for students to engage in athletics, basketball, cricket, volleyball, and football. Additional amenities like ATM, canteen, girls' hostel, health care center, gymnasium, and yoga center contribute to creating a holistic and enriching experience for all students.

❖ **Student Support and Progression**

Christian College of Engineering and Technology, Bhilai attempts to take up various methods for student support which includes skill development, curricular, co-curricular and extra-curricular activities, Training and placement related activity and alumni cell activity. The college brochure is published every year mentioning the various facilities provided for student support like Gymnasium, ATM and library facility. The college also publishes the newsletter which mentions the student's activities in curricular and co-curricular and extra-curricular activity. The college facilitate the deserving as well as economically weaker students through various scholarship schemes of St Thomas Mission as well as of government. The college has a Training and Placement cell to assist the students in career counseling and placement. For career counseling time to time activities are arranged to make the students employable. Similarly for placement the Training and Placement cell arranges campus interviews either in online or offline mode and also facilitate the students to attend the campus interviews in nearby areas. Students of our college are placed in companies like Capgemini, C-Core India Techno solutions pvt, Infosys, Tata Consultancy, Apollo tyres, Pinnacle Infotech Solution etc. Some students also pursue higher studies after the B.Tech degree. The college has different cells to motivate and facilitate the students for co-curricular and curricular activities and there is a sports cell to facilitate the students to participate and excel in sports events. The college has an Alumni cell to strengthen the bonds between alumni, students and institute. The alumni support the students by guiding them through various interaction programs so as to develop the overall personality and skill-sets of students and members. These programs include Expert Lectures, meetings and talks with luminaries, interactive and personality development sessions

❖ **Governance, Leadership and Management**

The Institute believes in promoting a culture of delegation of powers through strategic policies. The Principal of Institute is assisted by HODs, Administrative heads, Section in charges and coordinators of various cells in

decision making process at the Institute. Faculty and staff are assigned with the roles and responsibility to work in a harmonious environment with complete transparency. IQAC has a well developed process to ensure quality benchmarks of academic and administrative activities.

Based on the vision and mission of the Institute, the GB has framed the quality policy driven by the needs of the industries, society and stakeholders. Institute has a perspective plan developed by Principal and HOD's with suggestions of IQAC and GB. Deployment of the quality policy is done by providing excellent academic infrastructure, conducive learning environment and harmonious work culture. Student surveys and feedback from all the stakeholders plays vital role in framing policies.

The Institute recognizes the importance of the dedicated faculty for realizing its vision. Institute has a HR policy for recruitment of a competent faculty. Fare representation to women is ensured at all levels of organization and their safety and security is given the top priority.

The account section of the Institute looks after all the planning activities related to financial matters. Based on the requirement from various HODs, accounts section prepares budget and makes provision for all the academic and administrative activities. After approval of GB budget is allocated to respective sections/departments. Reserve and corpus fund is maintained as fixed deposit by the Institute. In case of deficit of financial resources parent trust supports. The management has appointed financial consultants and internal auditors for statutory auditing and monitoring the financial transactions.

Performance appraisal of staff member is done regularly. Welfare measures are provided to teaching, non-teaching staff and support staff. The institution maintains transparency at all levels of financial transactions. Internal and external financial audit is conducted regularly. Allocation of budget and mobilization of fund , for academic and administrative activities is strategically carried out by the Management and Finance Department of the college.

❖ **Institutional Values and Best Practices**

Christian College of Engineering and Technology Bhilai actively fosters gender awareness through dedicated committees and cells focused on gender sensitization programs. Committees like the Women's Cell, Anti-Ragging Committee, and Committee for Prevention of Sexual Harassment work to promote gender sensitivity among students and faculty. The college prioritizes security by installing CCTV cameras and stationing security personnel at key locations. The guidance and counseling cell, along with the grievance cell efficiently address the needs and concerns of students and faculty members.

Energy conservation is a crucial aspect of the campus's sustainability efforts. The college carefully monitors energy consumption, sources it, and implements solar panels to harness renewable energy. Energy-efficient lighting appliances like CFLs and LED lights are utilized to reduce energy usage. To mitigate carbon dioxide emissions, only two-wheeler parking is allowed, four-wheeler parking is discouraged and public transport or college buses are encouraged for commuting.

The institution practices Solid Waste Management by segregating waste, with non-biodegradable materials like plastics, metal, and glass handed over to the Bhilai Municipal Corporation for proper disposal.

The college conducts Green audits, Energy audits, and environmental audits through registered bodies to assess and enhance sustainability practices.

Accessibility for physically challenged individuals is ensured with the provision of lifts, ramps and wheelchairs.

Programs are organized to sensitize students and employees on their constitutional obligations and a prescribed Code of Conduct is followed by all stakeholders, overseen by a monitoring committee. The college embraces democratic values, promoting cultural, regional, linguistic and communal harmony. National and international commemorative days, events, and festivals are celebrated with enthusiasm.

To conserve water resources, the college has implemented a rainwater harvesting system.

These practices and initiatives exemplify the college's commitment to creating a safe, inclusive, sustainable, and values-driven campus environment where learning and personal growth flourish.

❖ Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	The NEP 2020 is a significant milestone for Indian higher education. Christian College of Engineering and Technology, affiliated with Chhattisgarh Swami Vivekananda Technical University, is eager to implement instructions from the university and the Ministry of Higher Education. The college already conducts regular Multidisciplinary/ Interdisciplinary activities. The new curriculum designed by the higher education department aligns with NEP 2020, featuring credit-based courses and emphasizing active regional research. This approach aims to foster holistic and multidisciplinary education, empowering students with critical skills and contributing to regional development. Overall, the college is poised to embrace NEP 2020's vision, shaping a brighter future for higher education in India
2. Academic bank of credits (ABC):	The implementation of the Academic Bank of Credits at the college will follow the parent university's guidelines. Faculties are actively encouraged to develop and offer certificate programs with the flexibility to design course frameworks and curricula at the departmental level. This approach fosters innovation and specialization within different disciplines, catering to the diverse interests and needs of students. By allowing departments to design their own certificate programs, the college can promote multidisciplinary learning and provide students with valuable and focused skill sets. The Academic Bank of Credits and departmental certificate programs together contribute to a more student-centric and dynamic higher education environment.

<p>3. Skill development:</p>	<p>The institute's primary focus is on providing vocational education and training, emphasizing skill development and employability. In addition to traditional classroom instruction, the institute utilizes online learning methods, digital tools, and virtual learning to enhance the learning experience for students. Alongside technical skills, the institute actively promotes values and civic responsibility among students through activities on Democracy, Elections, and Good Governance. Value-based education is integral, fostering humanistic, ethical, constitutional, and universal human values. The institute has successfully completed value-added programs in Banking Finance and Insurance, Business Process Outsourcing, and Python Programming. In line with its commitment to growth, the institute aims to develop new skill development programs in the years to come..</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>The institute recognizes the importance of integrating Indian Knowledge systems into education and takes various initiatives to achieve this goal. This includes incorporating traditional Indian knowledge and practices into the curriculum and teaching methods. Teaching in Indian languages is promoted to preserve linguistic diversity and cultural heritage. Indian culture is actively promoted through various activities such as traditional day celebrations, Mehandi, Rangoli, Dance, Singing, Zimma fugadi, and festivals like Chrimas, Holi, Diwali and Hindi Diwas. The institute also actively participates in university-level youth festivals, encouraging students to embrace and embody Indian culture and values. By combining modern education with the rich heritage of arts, literature, and culture, the institute fosters holistic and culturally aware individuals.</p>

<p>5. Focus on Outcome based education (OBE):</p>	<p>Christian College of Engineering and Technology offers well-defined Programmes at both UG and PG levels, each with clear Programme Outcomes, Programme Specific Outcomes, and Course Outcomes. At the beginning of each academic session, students are informed and made aware of these outcomes. These outcomes are self-explanatory, meaning they provide a clear understanding of the learning objectives and expected competencies for each program and course. To ensure transparency and accessibility, the college uploads these outcomes on its website, allowing students, parents, and stakeholders to access and refer to them easily. This approach enhances accountability and helps students track their academic progress effectively.</p>
<p>6. Distance education/online education:</p>	<p>The online mode of knowledge transfer offers numerous advantages, allowing resource persons from around the world to impart knowledge without geographical constraints. Both students and resource persons find it easier to access online platforms compared to traditional offline modes. The COVID-19 pandemic highlighted the merits of online distance learning, with higher participation rates in courses/programs compared to offline modes. The success of online programs during the pandemic has paved the way for future possibilities, including vocational courses conducted through platforms like Google Classroom, Zoom, G Suite, Webex, etc. These technologies have revolutionized education, opening up new avenues for global collaboration and lifelong learning opportunities.</p>

❖ Campus



Satellite View of CCET Campus

CCET campus spread over an area of 17.45 acres in the Industrial Belt of the Steel City, Bhilai, Chhattisgarh. It presents a panorama of harmony in architecture and natural beauty. The campus has been organized in three functional sectors;

- Hostels for Students (Boys and Girls), Health Centre, Sports Complex
- Academic Buildings, Administrative Building and Central Library
- Residential & Guest House

The academic buildings are located fairly in close proximity, to the hostels and the Sports Complex. The College is having a dedicated Workshop for the Mechanical Engineering Department where Manufacturing Unit for preparation and maintenance of wooden and steel work for all sister institution. The campus has an ATM of State bank of India as well as Students Store in campus.

The Institute has its own Health Center with a part time residential medical Officer.

In Campus Boys and Girls Hostel managed by Priests and Nuns. A Spacious canteen is located close to the instruction zone and hostels. The Institute has a well equipped Gymkhana apart from various playgrounds for Tennis, Badminton, Volley Ball, Foot Ball, Hockey and Cricket and an Indoor Games Complex. NSS unit is also located on campus. They are very well used by students and campus residents of quarters