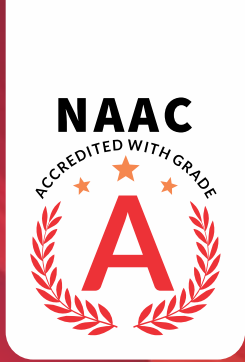




CHRISTIAN
 COLLEGE *of* ENGINEERING
 & TECHNOLOGY
 KAILASH NAGAR-BHILAI

25+
 Years of
 Excellence



PROSPECTUS
 AN OPEN BOOK ON LIMITLESS
 OPPORTUNITIES AT CCET

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www.ccetbhilai.ac.in



**DISCOVER THE BRIGHTEST OPTIONS
 FOR PROMISING CAREERS**

Approved by AICTE, New Delhi & Affiliated to CSVTU, Bhilai



MGM MORE THAN **60**
 GROUP OF YEARS
 INSTITUTIONS IN EDUCATION



**BIHAR STUDENT
 CREDIT CARD YOJNA**
 FACILITY IS AVAILABLE AT CCET



LOCATION

The **Christian College of Engineering and Technology (formerly Known as MPCET)** is located in 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.



RAIPUR AIRPORT TO CCET



DURG RAILWAY STATION TO CCET



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. 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. CCET, Bhilai is the 3rd Oldest Private Engineering College in the state of Chhattisgarh and the 2nd Oldest in the city of Bhilai.

CAMPUS

CCET campus spread over an area of 17.45 acres in the Industrial Belt of the Steel City, Bhilai, Chhattisgarh, well protected ecosystem, well maintained academic buildings and camera surveillance providing a conducive ambience for learning and research. 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 institutions. The campus has an ATM of State bank of India as well as Wi-Fi Campus for students. The Institute has its own Health Center with a part time residential medical Officer and a student counselor.

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.





H. G. Dr. Stephanos Mar Theodosius of Blessed Memory

Founder Bishop

First Metropolitan of Calcutta Diocese



H. H. Baselios Marthoma Mathews III

Catholicos of the East and Malankara Metropolitan



H. G. Alexios Mar Eusebius

Chairman CCET

Metropolitan of Calcutta Diocese &
President St. Thomas Mission



Fr. Dr. P. S. Varghese

Executive Vice Chairman

Christian College of Engineering & Technology



V. Rev. Thomas Ramban

Treasurer

GREAT LEARNING BEGINS WITH GREAT TEACHERS

The Christian College of Engineering and Technology functions under the aegis of the St. Thomas Mission of the Malankara Orthodox Church.

St. Thomas Mission is one of the pioneer organizations working for the holistic development of all persons, irrespective of race, caste or creed. It is the official Socio- Developmental wing of the Bhilai Mission, the Outside Kerala Mission of the Malankara Orthodox Church for Social Action, Relief and Development.

It is a registered body under the Societies Registration Act (Madhya Pradesh) XXVI of 1961 with registration No. 8400 of 1979 and having its registered office at St. Thomas Mission Centre, Kailash Nagar, Bhilai, 490001, Durg, Chhattisgarh, India.

The St. Thomas Orthodox Syrian Church Mission-Bhilai was founded by the Late lamented H. H. Baselios Mar Thoma Mathews I, in the year 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 mission's activities later spread out to cover Madhya Pradesh, Orissa, Bihar, West Bengal, Assam and Nagaland which include educational institutions, health service centers, bal grams, rehabilitation centers, village mission ashrams and convents.

WELCOME

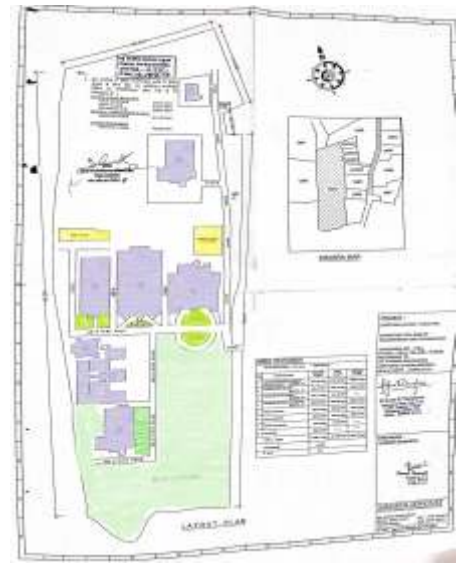
St. Thomas Mission Bhilai – Mission of North India was founded in 1972. With the creation of the Kolkata Diocese of the Orthodox Church in 1979, the activities of the St. Thomas Mission became more extensive spreading light of knowledge to the mankind.

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.

Christian College of Engineering and Technology formerly known as MPCET approved by AICTE, New Delhi and affiliated to Chhattisgarh Swami Vivekananda Technical University (CSVTU), Bhilai is a Syrian Orthodox minority educational institution approved by the National Commission for Minority Educational Institutions. The college was founded in 1998 by Bishop Stephanos Mar Theodosius, the Bishop of the Diocese of Kolkata, with the objective of uplifting the underprivileged, marginalized youth of the country through quality technical education.

CCET provides opportunity to talented, motivated students from all walks of life to acquire the skills and knowledge they need to succeed in highly competitive engineering professions. CCET is guided by its vision of providing quality technical education.

A private non-profit organization, CCET admits 165 students annually in Degree Programmes in 4 branches of Engineering namely Computer Science & Engineering, Electronics & Telecommunications Engineering, Mechanical Engineering, Electrical Engineering. CCET also admits 48 students in Post-Graduate full time programs (2 years duration) M.Tech. programme in CAD/CAM Robotics, Nano Technology and High Voltage Engineering. The Institution also offers Doctoral Research Ph.D (full time) program in Electronics & Telecommunication Engineering, Applied Mathematics and Applied Physics Departments. The cornerstone of CCET's academic programmes is quality infrastructure combined with qualified and motivated faculty, placed in an environment that encourages students to make the most of both. The college is enveloped in an aura of religious, communal, environmental and cultural harmony.



VISION

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

This vision is symbolised by the college logo "Lead kindly light" the words to this beautiful hymn are a prayer for guidance and comfort in times of trouble. Lead Kindly Light provides comfort and reassurance that God leads when we are lost. Appeals to God to show us light, and guide us in the right direction. It also exhort students to always choose the righteous path in life.

MISSION

- 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 & students.
- Become a deemed university.

UNIQUE FEATURES

- One of the Top Five Self Financing Engineering Colleges in Chhattisgarh.
- Maximum number of Innovative practices as certified by AICTE.
- College with un-interrupted Power Supply and Abundant Natural Water Source.
- Most beautiful, neat, eco-friendly Campus.
- Excellent connectivity from all places.
- Fully Automated Services.
- Excellent Examination results.
- Dedicated Placement & Training Ensuring outstanding placement statistics.
- Best Library, Excellent Laboratory and in Campus Boys & Girls Hostel facilities.
- Yoga, Meditation, Gym and Medical facility.

THE CHOICE OF THE LEARNER



Christian College of Engineering and Technology, Bhilai (CCET), previously known as MPCET, is an institution that aims at the overall development of a student. We have a specific vision and mission. Our vision is to make CCET as the Centre of Academic Excellence by imparting quality technical education imbued with the social and moral values. Our mission is to transfer the appropriate technology to the new generation.

This NAAC 'A' Grade accredited College provides necessary infrastructure and a team of highly qualified and motivated faculty. We not only aim to educate the young to be successful engineers but also prepare them to be socially responsible human beings of tomorrow. Our Institution has a very harmonious and conducive atmosphere for students and staff alike. I wish for the very best in your journey to success.

Fr. Dr. P. S. Varghese

Executive Vice Chairman

Christian College of Engineering & Technology

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. As you read through the pages of this site, you will learn about our wonderful students, our staff and get a feel for the vibrancy and strength of our wider CCET family.

Our College was established in 1998 and has experienced strong growth with a current student population of over 1200. The College has a wide range of specialist facilities and resources and is committed to the achievement of quality learning outcomes. The college has a long tradition of educating students – with a continued focus on academic excellence underpinned by strong pastoral care and a rich co-curricular programme across visual and performing arts, cultural activities and wide range of sports.

Choosing a college can be one of the most challenging and difficult decisions a parent needs to make, as it really is an investment in your children's future. I would encourage each and every parent to look for the college that best suits the needs and interests of their daughter/son. A college should offer an abundance of opportunities for students to explore experience, learn and find their strengths and to become the very best person they can.

We describe ourselves as a learning community because we believe that we are all learners – teachers, students and parents – learning from and with each other. We describe ourselves as a community in which parents, teachers and support staff work in partnership with each other to advance the learning and growth of the students.

We are committed to focus on the needs of each individual student and aim to nurture each student and ensure their journey at CCET is a successful and life-enhancing experience. When you join us, we will invest time in you! We will give you all the support and encouragement you need to achieve the success you deserve and to create the future you want for yourself. We'll treat you with respect, take your views seriously and encourage you to be creative, make new friends and contribute to the wider community.

Of course, this website cannot take the place of visiting our College; I warmly welcome you to visit our college in our annual college day, foundation day or any other day and discover firsthand what makes a Christian College education so special.

Dr. Jitendra Tiwari

Principal

Christian College of Engineering & Technology



OUR PRIDE

- 2nd OLDEST private college In the State.
- Completing 25 years of existence.
- Accredited twice from NBA in 2008-11 and 2018-21.
- Member of coordination cell of CCOST, Raipur and receive grant every year for research activities and various events for societal benefits.
- Catering needs of students from various geographical, socio-economic, religious and linguistic backgrounds.
- More than 80% of the full time teachers are ratified by State Affiliating University.
- Most of the senior professors are the chairman /member of Board of studies, exam committee, scrutiny committee, inspection committee, subject expert at University level.

CCET JOURNAL OF SCIENCE AND ENGINEERING EDUCATION



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INSTITUTION'S INNOVATION COUNCIL (IIC)

To promote Innovation and start up in campus established IIC (IC202218018) as per the norms of Innovation Cell, Ministry of Education, Govt. of India during the academic calendar year 2021-22



APPROVAL, AFFILIATION & ACCREDITATIONS



Established in 1998



Approved by AICTE, New Delhi



Affiliated to CSVTU, Bhilai, C.G.



UG programs: Mechanical & Electrical Department Accredited by NBA for 3 years w.e.f.19/07/2008.

UG programs: Mechanical Department Accredited by NBA for 3 years (2018-2021) up to 30/6/2021.



NAAC Accredited with A Grade (2024 – 2029)

SHAPE YOUR FUTURE HERE

COURSES OFFERED

M. TECH.

- NANOTECHNOLOGY (E&T)
- CAD/CAM ROBOTICS (MECHANICAL)
- HIGH VOLTAGE (ELECTRICAL)

B. TECH.

- COMPUTER SCIENCE & ENGINEERING
- ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (AI&ML)
- ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (AI&DS)
- ELECTRICAL ENGINEERING
- ELECTRONICS & TELECOMM. ENGINEERING
- MECHANICAL ENGINEERING

MASTER OF COMPUTER APPLICATION (MCA)

DIPLOMA ENGINEERING (POLYTECHNIC)

- COMPUTER SCIENCE & ENGINEERING
- MECHANICAL ENGINEERING
- ELECTRICAL ENGINEERING

Direct Admission is given to 50% of the seats of each Engineering course under the Minority Quota through College level counseling based on the merit rank of JEE/PET.

Rest of the 50% seats are filled through the CGPET counseling conducted by the Directorate of Technical Education, Chhattisgarh, for which domicile certificate of Chhattisgarh is mandatory

ELIGIBILITY CRITERIA

For C.G. Students

Class 12th - Physics, Chemistry & Mathematics (PCM) with 45% (Gen.) & 40% (category) Appeared Engineering Entrance Exam (CGPET)

For Outside C.G. Students

Class 12th - Physics, Chemistry & Mathematics (PCM) with 45% (Gen.) & 40% (category) Appeared Engineering Entrance Exam CGPET or JEE (All India)

DOCUMENTS REQUIRED

1. Transfer (T.C.) & Character Certificate (Original)
2. Migration Certificate (Original)
3. X and XII Marksheet (2 Photocopies)
4. Photograph (Student -4, Parent -1)
5. CGPET/JEE Scorecard (2 Photocopies)
6. Caste Certificate
7. CG Domicile (Chhattisgarh निवास प्रमाण पत्र)
8. Adhaar Card
9. Income Proof
10. Photocopy of Bank Pass Book
11. Letter from Church (for Christian students only)



ELECTRICAL ENGINEERING



Degree Programs

B.Tech.

Electrical Engineering(EE) - 4 years

M.Tech.

High Voltage Engineering- 2 years

Diploma Engineering

Electrical Engineering - 3 years

The Department of Electrical Engineering is one of the first Four engineering departments of the institute that started in 1998. The Department is running the B. Tech. program in Electrical Engineering since its inception. Later, Post graduate studies and research in High Voltage Engineering was introduced in 2019.

Throughout more than Two decades of its journey, the Department continues to stay focused on research, abreast with the latest development

and diversifications in its various fields of study. During this period, while maintaining its traditional focus on Power and Machines, followed by Control and Instrumentation, the Department has been able to develop expertise in modern areas such as MEMS, Signal and Image Processing and Renewable Energy. The Department continues to participate in numerous R&D projects funded by governmental organizations such as MHRD, DST, DIT, DBT, DRDO, ISRO, CPRI, CDAC, ICMR, CSVTU (TEQIP-III) and industries such as SAIL, BHEL, Powergrid, Indian Rail, POSOCO etc.

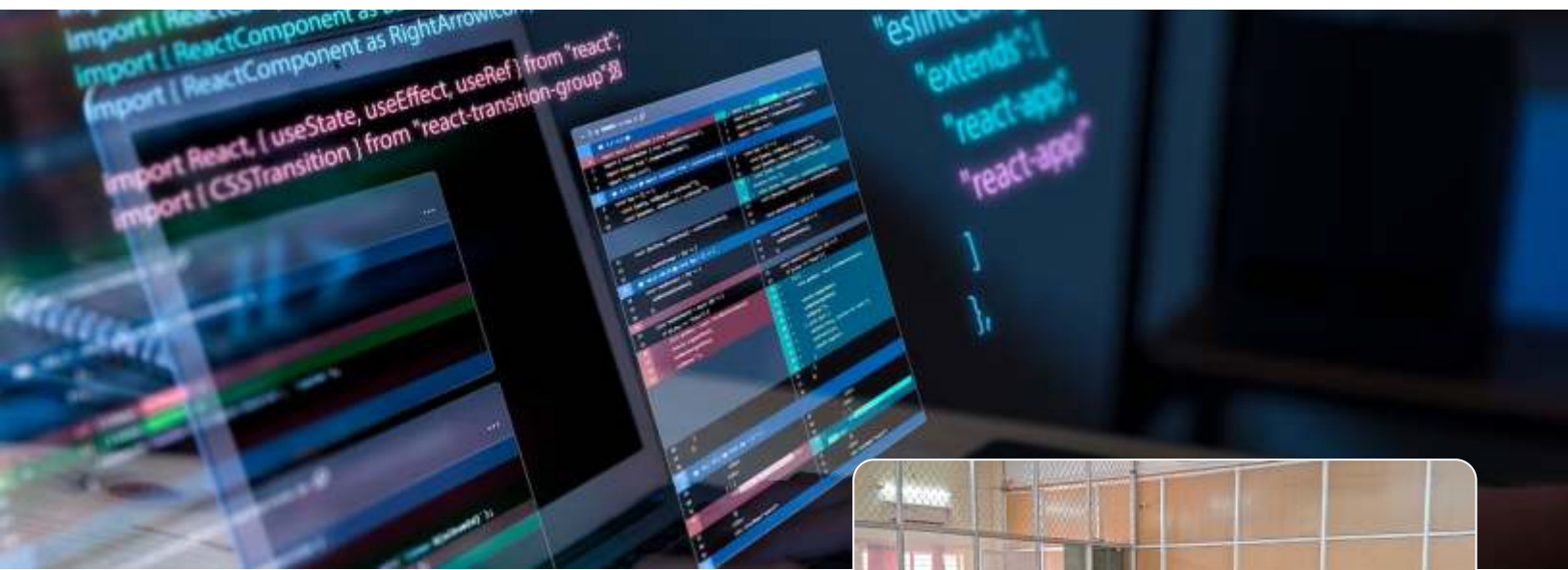
Laboratory Facilities

Within the Electrical Engineering Department, labs flourish like stars in a galaxy. The Machine Lab pulsates with mechanical ingenuity, while the Power System Lab orchestrates resilience in grids. Control Lab conducts symphonies of automation, Circuit Network Lab navigates electronic pathways, and Analog/Digital Labs sculpt signals and binary wonders. In the Measurement Lab, precision reigns supreme. Finally, the High Voltage Lab stands as a beacon of safety and exploration, where engineers brave extreme voltages, illuminating pathways to a brighter future.

Departmental Activities

The Electrical Engineering Department at Christian College of Engineering and Technology (CCET), founded in 1998, is a cornerstone of the institution, prioritizing holistic education. It goes beyond traditional engineering, nurturing well-rounded individuals by emphasizing communication skills, values, and managerial acumen. The program serves as a launchpad for students interested in engineering careers or advanced research in computing technology. With a commitment to quality, the department boasts highly qualified faculty members actively engaged in research and professional development. Through workshops, seminars, and guest lectures, students gain valuable insights from industry experts. The department offers a balanced mix of academic instruction, hands-on experiences, and extracurricular activities, preparing graduates to excel professionally and contribute meaningfully to society. Its holistic approach equips students with technical prowess and essential skills for success in diverse professional settings.

COMPUTER SCIENCE & ENGINEERING



Degree Programs

B.Tech.

Computer Science & Engineering (CSE) - 4 years

Diploma Engineering

Computer Science & Engineering - 3 years



The Department of Computer Science & Engineering is an integral part of Christian College of Engineering and Technology, Bhilai which aims at bringing out the technical and inherent talents of the young and budding Engineers. The department has modern facilities for teaching, learning and research. The Department was established in the academic year 1998 and started B.E. Computer Science & Engineering programme with the aim to develop core skills in Computer Science and prepare the students to carry

out development work, as well as take up challenges in research. The Undergraduate programmes - B.Tech. CSE are offered by the Chhattisgarh Swami Vivekananda Technical University. With rapidly evolving technology and the continuous need for innovation, the department has produced quality professionals holding important positions in the IT industry in India and abroad.

Laboratory Facilities

The Department of Computer Science and Engineering prioritizes both theoretical knowledge and practical programming skills for students. It covers fundamental subjects like Theory of Automata, Compiler Design, Operating Systems, Computer Networks, and Computer Graphics. The department offers well-equipped labs for learning programming languages such as C, C++, Java, Matlab, Python, and R. Specialized labs cater to operating systems, advanced computing (including soft computing and mobile applications), database management systems, web applications, and hardware/networking. These labs utilize free and open-source software like Gedit, GCC, SCILab, SQLite3, PyCharm, and Apache Geronimo. Ultimately, the department aims to prepare graduates to tackle complex engineering problems and to pursue further research and advanced studies in the field of Computer Science and Engineering.

Departmental Activities

The Department of Computer Science and Engineering at Christian College of Engineering and Technology, Bhilai (CCET) was founded in 1998 as an integral part of the institution. Beyond traditional engineering subjects, it emphasizes fostering effective communication skills, instilling values, social awareness, and management qualities in engineering graduates for holistic development. CCET's Computer Science and Engineering program caters to students aspiring for engineering careers or seeking comprehensive knowledge in computing technology and research. The department boasts well-qualified faculty members with expertise and research exposure, who continually update their knowledge through participation in various national and international workshops, seminars, and conferences. Notably, it is designated as the inaugural Nodal Centre of IIT Kharagpur's Virtual Lab in Chhattisgarh, underscoring its commitment to quality education and technological advancement.

MECHANICAL ENGINEERING



Degree Programs

B.Tech.

Mechanical Engineering (ME) - 4 years

M.Tech.

CAD/CAM-Robotics - 2 years

Diploma Engineering

Mechanical Engineering - 3 years

Department of Mechanical Engineering is accredited twice by National Board of Accreditation New Delhi. Mechanical Engineering involves the application of principles of physics for analysis, design, manufacture, and maintenance of mechanical systems. It also involves clear understanding of key concepts including mechanics, kinematics, thermodynamics and energy. Practitioners of mechanical engineering use these principles and others in the design and analysis of automobiles, aircraft, heating & cooling systems, manufacturing plants, industrial equipment and machinery, and more. The assets of the department are its well experienced faculties,

modern laboratory/equipments, state of art machines, CAD/CAM & Robotics lab etc. Students undergo rigorous theory & practical sessions and are allowed to work independently on plant machineries & CAD/CAM software etc. which creates a touch of an industrial environment within the institute itself & generates a high level of confidence among our students. Department organizes interactive & practical based learning which includes Inter & intra departmental technical activities, Seminars, Guest lecturers, Industrial visits, Workshops etc. to build up the personality of the students.

Laboratory Facilities

Mechanical Engineering is the foundation of innovation, driving progress through the creation of new machinery and processes. With a blend of theory and practical skills, Mechanical Engineers are in high demand across industries. Our department offers top-tier education with advanced infrastructure and experienced faculty. We prioritize holistic learning, integrating theory with hands-on practice to tackle real-world challenges effectively. Equipped with cutting-edge machinery like CNC and Universal Testing Machines, our labs empower students to contribute meaningfully to society. Under faculty guidance, students engage in diverse tasks, fostering innovation and skill development. Our focus on state-of-the-art facilities and experiential learning prepares students for success in the dynamic field of mechanical engineering.

Research Facilities

The Mechanical Engineering Department, established in 1998, offers BTech in Mechanical Engineering and MTech in CAD/CAM & Robotics. It boasts rich faculty and infrastructure, including modern laboratory and workshop facilities for practical and research work. Faculty members actively engage in prestigious sponsored/consultancy projects, accredited twice by NBA in 2009 and 2018. Research facilities in the department drive innovation across disciplines like robotics, CAD, aerodynamics, and materials science. These hubs foster interdisciplinary collaboration, facilitating innovative solutions to engineering problems. Equipped with advanced technology, these facilities nurture innovation, enabling researchers to push technological boundaries. They also play a vital role in educating future engineers, providing hands-on experience to deepen theoretical understanding and develop practical skills essential for success.

ELECTRONICS & TELECOMMUNICATION ENGINEERING



Degree Programs

B.Tech.

Electronics & Telecommunication Engineering (ETC) - 4 years

M.Tech.

Nanotechnology - 2 years

Ph.D.

The Department runs Ph.D. programs in Electronics & Telecommunication

The Electronics and Telecommunication Department promote the development and innovation in students that are needed to make significant advances in scientific and technological understanding, of electronic and telecommunication systems in the wider sense. The Under Graduate course (B.Tech. Electronics & Telecommunication Engineering) offered by the department has special emphasis on Telecommunication Networks, Digital Signal Processing, Devices and Circuits, Electromagnetic fields and waves, VLSI design, Microprocessors, Microcontrollers, Instrumentation, Image Processing, Microwave, Fiber Optics, Satellite, Wireless Communications, Radar, Navigations, Multimedia, Internet

Technologies and Embedded Systems. The Post Graduate course (M. Tech. - Nanotechnology) gives exposure to crucial subjects such as metamaterials, molecular electronics and nano-biotechnology. Nanotechnology is an emerging field of which has a great scope and job opportunities in India and abroad. The Department adopts the hands on approach, which is teaching by doing and provides a challenging opportunity of getting exposed to real world problems through industrial collaboration and case studies from real world problems. Department also provides the necessary encouraging environment, academic guidance, and technology support to the students.

Laboratory Facilities

Keeping in mind the great potential and demand for new communication technologies, the department aims at imparting its students with the latest knowledge in the field. To complement this department has well stocked laboratories housing various modern equipments to enable the students to keep pace with the fast changing technology. The infrastructure and lab facilities are upgraded from time to time and provide adequate opportunities for students and researchers to innovate new ideas. The department has well qualified faculty and trained technical supporting staff. All the faculty members are consistently carrying out research on cutting edge technologies.

Departmental Activities

The intensive training is to prepare our students to begin a lifetime of professional creativity and leadership. We have a focused approach for the all-round personality development of the students by organizing guest lecturers by Industry experts, seminars and industrial visits so that students get required industry exposure to the latest developments in the field. The department also enjoys very close relationships with industry, both in terms of research and recruiting. Time to time various sponsored project and workshops are organised to explore the latest technologies.

ARTIFICIAL INTELLIGENCE & MACHINE LEARNING



Degree Programs

B.Tech.

Artificial Intelligence and Machine Learning (AI & ML) - 4 years

CCET offers a four-year under-graduate B.Tech course in Artificial Intelligence and Machine Learning which aims to develop a strong foundation by using the principles and technologies that consist of many facets of Artificial Intelligence including logic, knowledge representation, probabilistic models, and machine learning. This course is best suited for students seeking to build world-class expertise in Artificial Intelligence and Machine Learning and emerging technologies which help to stand in the crowd and grow careers in the upcoming technological era.

The course is designed to give the students enough exposure to the variety of applications that can be built using techniques covered under this program. They shall be able to apply AI/ML methods, techniques and tools to the applications. The students shall explore the practical components of developing AI apps and platforms. The key objective is to identify logic and reasoning methods from a computational perspective, learn about agent, search, probabilistic models, perception and cognition, and machine learning.

The Future of AI & ML

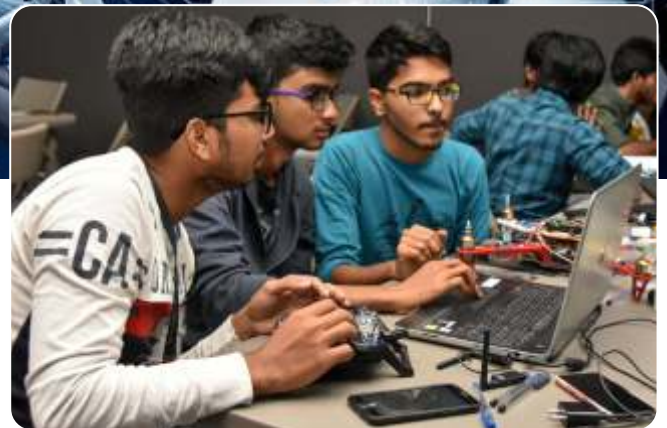
The future of artificial intelligence is more fascinating than ever. Thinking very similar to Humans in real time Environment is the AI's biggest gift to humankind. In the recent years, self-driving vehicles, digital assistants, robotic factory staff, and smart cities have proven that intelligent machines are possible. AI has transformed most industry sectors like retail, manufacturing, finance, healthcare, media and continues to invade new territories. Artificial intelligence is widely adopted by the manufacturers in the industries such as pharmaceuticals, automobile, food and beverages, and energy and power.

AI and ML will also play a crucial role in autonomous systems, powering self-driving

cars, drones, and robotic applications. Enhanced natural language processing and understanding will enable more sophisticated virtual assistants and conversational AI, facilitating seamless human-machine interaction.

Ethical considerations, including bias mitigation, transparency, and accountability, will be paramount as AI and ML systems become more pervasive. Regulation and governance frameworks will evolve to ensure responsible AI development and deployment.

ARTIFICIAL INTELLIGENCE & DATA SCIENCE



Degree Programs

B.Tech.

Artificial Intelligence and Data Science (AI & DS) - 4 years

B.Tech in Artificial Intelligence & Data Science (AI and DS) is a 4-year degree program, aims to prepare students with the skills to perform intelligent data analysis in numerous real-world applications. Since the last decade, AI and DS witnessed tremendous growth and dramatic breakthroughs innovations applied in almost every sector. Artificial Intelligence is a wide-ranging branch of computer science, concerned with building smart/intelligent systems capable of performing tasks that typically require human intelligence. Data Science comprises various statistical techniques, involves pre-processing, analyzing, visualization data, and generating insights from it. This B.Tech programme is a perfect blend of AI and DS. It has comprehensive coverage of fundamentals of computer engineering, along with cross-disciplinary skills like statistics,

mathematical and logical reasoning, knowledge discovery, AI Techniques, Machine Learning, visualization, big data analytics etc. Graduates of this programme will have career opportunities in healthcare, business management, e-commerce, social networking companies, climatology, biotechnology, genetics, and other important areas. The role of the graduates in these domains includes Data Scientist, Machine Learning Engineer, Data Analyst, Social Scientist, AI Developer, Business Intelligence Developer, Expert Analyst, and Decision Maker/Statistician.

The Future of AI & DS

The future of Artificial Intelligence (AI) and Data Science is poised for remarkable advancements, driven by ongoing technological innovations and increasing demand across various industries. AI is anticipated to become more pervasive, with applications ranging from healthcare and finance to transportation and entertainment. Data Science, in tandem, will continue to play a crucial role in extracting insights and making informed decisions from vast amounts of data.

Key trends shaping this future include the rise of explainable AI, ensuring transparency and accountability in AI systems. Additionally, federated learning and edge computing will enable AI models to be trained collaboratively across distributed devices while maintaining privacy and security.

MASTER OF COMPUTER APPLICATIONS (MCA)

It is a PG program in computer science and applications. It is a two-year professional course designed to meet the growing demand in the software industry which combines both practical and theoretical knowledge in which candidates get a deep understanding of software development, programming languages, database management, and computer networks.

There is a vast career scope after completing the Master of course. Day by day in the global landscape, information technology is growing in faster space. The candidates can work in IT consulting, database administration, software development, system analysis, web development, mobile app development, cyber security, etc.



DIPLOMA IN COMPUTER SCIENCE & ENGINEERING

Diploma in Computer Science and Engineering includes software and hardware design. This is an excellent preparatory course for a career in IT, as well as in public sectors like railways, banking etc. It covers the subjects of computer programming, computer systems, networking and computer hardware. The extensive use of IT has led to an increase in the number of IT careers and the students are regularly getting absorbed in the IT industry. A student finishing his/her Diploma can appear for selection for lateral entry in to B.Tech./B.E. second year directly. Computer Engineering Diploma holders may even start their own venture with very little investment. On an average, a computer science engineer after completing their diploma earns 4-5 lakhs per annum in starting.



DIPLOMA IN MECHANICAL ENGINEERING

The Diploma in Mechanical Engineering is a 3-years diploma program. In the course of Diploma, the students will get academic as well as practical knowledge about engines, and machines. The course of Diploma in Mechanical Engineering is the branch of Engineering that is related to design everything from new batteries, athletic equipment to medical devices and personal computers, air conditioners, and automobile engines to electric power plants. These engineers design machines that produce these innovations.

A Diploma holder in Mechanical Engineering is eligible to work in both public and private sectors. Diploma in Mechanical Engineering career option is very high. The candidate will even be able to pursue higher education like a Bachelor's Degree or any other higher qualification in India or abroad. Or he/ she will be equipped to start your own business. The Diploma in Mechanical Engineering career option is very creative & fast-paced. It is one of the most preferred careers by engineers. The job opportunities as a Mechanical Engineer are raised due to the rapid growth of engines, and machines.



DIPLOMA IN ELECTRICAL ENGINEERING

The EE diploma program is a technical skill-building course designed to make students job-ready by the course-end. It is a 3-year program that deals with the technical knowledge of electrical devices and elements of different power sources and industrial application of the same. Electrical engineers form a crucial part of trained manpower that most of the industrial firm's house today.

A diploma in Electrical Engineering in high demand, every industry wants an electrical engineer who helps to repair and maintenance of electrical instruments. These engineers work on multiple projects throughout their career which includes the computer, robots, cell phones, navigation among others.



LEARNING AT CHRISTIAN COLLEGE

OUR TEACHING LEARNING PROCESS

- Spacious class rooms with audio-visual presentation facilities.
- Highly qualified, trained and caring faculties.
- Ample opportunities for constant interaction in class Easy access to faculties for consultation and guidance.
- Video lectures and all modern teaching aid.
- Well equipped Advanced laboratories and workshops.
- Modern Computer Centre and Computerized Central Library, Book Bank and e-Library.
- Guest lectures by Experts from Industry and field Emphasis on practical training and skill acquisition Seminars/quizzes on current and emerging topics.
- National Conference on emerging Technology every year / Regular field trip to industry/work sites.
- Special training on learning skills development.
- Progress report to parents at frequent intervals.

OUR QUALITY ASSURANCE

- Strategic planning approach to development.
- Commitment to TQM and Continues Improvement.
- Top quality faculty and infrastructure.
- Fully computerized services with barcode enabled ID Cards for students.
- Team work and consultation at all levels.
- Most effective and efficient teaching-learning processes.
- Personality development programmes.



SCHOLARSHIPS

- St. Thomas Mission scholarship.
- Silver jubilee project 50% scholarship for christian students.
- Mar Theodosius memorial scholarship.
- Special scholarship for toppers and those who score above 80%.
- 50% Scholarship for meritorious students.
- Dr. Sandhya Pillai memorial scholarship for 'ccetians'.
- Shri John Jacob Meritorious Scholarship For EWS Students

AWARDS

Based on the performance of the Student various Awards are given to the students, such as:

- St.Thomas Mission Merit Award (STM MA)
- St. Thomas Mission Excellence Award (STM EA)
- Mar Theodosius Award
- St. Thomas Mission Performance Award
- Peter Thomas award for best all rounder
- Dr. R. N. Dash Endowment Cup for overall

- topper in first and second Semester
- Best Department (Sports) (Winner/ Runner Up)
- Best Department (Cultural) (Winner/ Runner Up)
- Overall Champion in Sports (Boys/ Girls)

CO-CURRICULAR ACTIVITIES



Departmental Associations

The departmental associations are very active in the College. They arrange regular invited talks by experts, seminars on selected topics where students present papers, technical quiz programmes and visits to industries.

Seminars, Workshop & Guest Lectures

Under each department of the College, a number of national/international level seminars, workshops and guest lectures programmes by expert group on emerging technology, personality development, communication skills, presentation skills and interview techniques are conducted to familiarize the students with the development in their fields and to prepare them for job interviews.

Networking Twinning & Partnership

To attain world class quality and standard, CCET takes up:

IIT Mumbai Initiates CCET as a Resource Centre

IIT Kharagpur First Nodal Centre for Virtual Labs in C.G.

CCET National Journal of Science & Engineering Education

Government Funded Research Projects

IIT Kharagpur NPTEL Local Chapter in CCET

MoU Signed between NIT, Nagaland & CCET

Invited Talks and Lectures

We arrange fortnightly talks by academicians and industrial experts on various topics of new and emerging technologies, technology applications and current engineering practices to enhance the knowledge of students and teachers.

Industrial Visits & Training

Visits to major industrial units, research centres and software companies across the country are arranged in the second and fourth year to get the students acquainted with the practices in industry. Students are also encouraged to carry out sponsored and guided by industries.

Well Trained Teachers

All the teachers in CCET have been exposed to a Faculty Development Programme on Teaching Excellence organised by the Indian Society for Technical Education.

National/ International Conferences

A National Conference "Technologia" is organised by College every year on emerging technologies in various fields.

R & D Cell

In transferring theoretical knowledge to the application side, the projects are constantly encouraged. Under R & D cell students prepare working technical models in their areas of interest and also participate in various tech fest in NITs, IITs and state universities.

Central Robotics Lab

In the Central robotics lab where students come up with innovative ideas on models of various Robot and there multiple applications and also with their robot they engage in robo war, robo fencing etc.

Techno Club

To hearten the skills and to embellish the study, students participate in various skill- rendering events under the techno club like paper presentation, Technical quiz, Debugging, Network games etc.

Cultural Club

In the leisure time students spend time in music room and the College is having its own college Band. Large number of students spend time in playing instruments and get themselves refresh after studies. Students have formed their own choir group.

Literary Club

Students actively participate in literary club activities and the club is completely managed by the students and they organize debate, essay writing, slogan writing, painting competition etc.

Value Education

CCET gives top priority to value education and inculcating practices such as quality awareness, work ethics, punctuality, energy and water conservation, cost effectiveness and eco- friendliness.

STUDENTS FACILITIES

Anti Ragging Cell:

Ragging of any type or dimension is banned in college campus. Anti ragging committee and anti-ragging squad keep avigil on any for of ragging in the college. " Anti - Ragging Legal Awareness" seminar is organized in the college regularly to make aware and prohibit to indulge in ragging and at the same time to familiarize them of the legal aspects. Incharge of anti - ragging committee regularly address the students and emphasize on promoting and maintaining a friendly and healthy academic environment without indulging in ragging.

National Service Scheme (NSS):

NSS cell provides an opportunity for students to engage in various social service activities, such as community development, health, education, and environmental conservation. Through NSS, students can develop leadership skills, improve their teamwork abilities, and gain a better understanding of social issues. Additionally, NSS involvement can also be a valuable addition to a student's resume, demonstrating their commitment to community service and social causes.

Student Grievance Redressal Cell (GRC):

Aims to look into the complaints lodged by any student and redress it as per requirement. The students can state their grievance regarding any academic and non- academic matter within the campus through the online and grievance/ suggestion box.

Counseling Services:

Counseling is designed to facilitate student achievement, improve student behavior and attendance, and help students develop socially by student counselor.

Newsletter:

Our newsletter Phoenix is an easy and effective way to be informed about the resources available in campus. It's a mirror to all the activities happening around our campus starting from guest lectures, club activities , achievements to every other event.

Medical facilities:

The institute maintains a Medical Unit in campus to meet the first aid and routine medical requirements of the students free of cost under the expert supervision of experienced physician. In the unit, the consultation is also provided to the members of faculty and staff of the institute. In addition, a college car is always stationed for any medical emergency of any student during College hours and even beyond.

Reprographic Services:

Reprographic service is provided in the library, Xerox Machine has been installed in the reference section. This service has proved to be a boon to the readers with the result the readers can get the material Photostated as and when they require.

Stationary Store:

To facilitate student needs, a stationary store is present inside college campus . This store stocks full range of stationary stuffs required by students for their day to day curriculum activities like notebooks, file cover, pens etc. All the stationary for students are available at very reasonable rates. Store is open during college timings only.



FACILITIES



LIBRARY

- Access to over 100,000 electronic journals and books, both in house and remotely
- Comprehensive research assistance, including consultations, by email, by web chat
- Studyspace
- Print collection of 20,000 books and 1,200 current journal subscriptions
- Book Bank facility
- CCET LIBRARY IS ENRICHED WITH AN ACCOMMODATION OF OVER 50000 BOOKS





SPORTS

The proverb "A sound mind in a sound body" perfectly encapsulates the importance of sports in everyday life. Apart from enhancing physical fitness, it also brings in benefits of healthy socializing & builds character values. As sports play vital role in making any individual physically and mentally healthy, the college gives due importance to sports activities. The students regularly bring laurels at university, state, national levels.





LUSH GREEN CAMPUS

CEET 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: 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.





IN CAMPUS HOSTEL FOR BOYS AND GIRLS

Hostel facility is provided with a view that the inmates of the hostel should perform than the day scholars. Four years of stay in hostel along with Batch mates, seniors and juniors will turn a student into a well-disciplined and confident individual with good sense of brotherhood and team spirit. Living together in a community like this would help each student to adjust with others (who hail from different background) and to lead a comfortable life during the stay in the college. In St.Thomas Boys Hostel and St.Mary's Girls Hostel, top priority is given to the academics, discipline and safety of the students. The objective is to transform the hostel inmates into complete professionals with a human face.



CANTEEN

College has spacious canteen facility in the college premises and is run by college management. A variety of food and snack items are provided to the students and staff of the college at highly reasonable rates with highest quality. Our college canteen is blessed with family atmosphere, with a variety of delicacies, touched by a homemade flavor, cooked to perfection and served with a great courtesy. Adequate seating facilities are provided to accommodate students and staff even during peak time.





WORKSHOP

Mechanical Engineering Workshop is a place where students acquire knowledge on the operation of various processes involved in manufacturing and production. The Workshop Practice course makes students competent in handling practical work in engineering environment. Mechanical Engineering Workshop is also involved in different maintenance/repair works for Institute. Various tools and machines are available in different shops like Machine shop, Carpentry shop, Welding shop, Tin smithy shop, Foundry shop, Fitting shop etc. in which students are able to perform job under modern practice workshop subject.



TRAINING AND PLACEMENT CELL



The Training & Placement Cell of the Christian College grooms guides and helps the students in their search for a good career. The Placement Cell of CCET has succeeded in attracting some of the top corporates to the college campus for talent. The Department is equipped with all the required facilities for the recruitment process such as seminar hall for company presentations, group discussions, video conferencing facilities, interview and Discussion rooms, Computer Labs with Internet facilities to conduct fair and transparent talent search to recruit good quality engineers for positions.

Conventional approaches and adherence to traditions do not hold water in constantly volatile and turbulent scenarios. Given these conditions, rightly enterprised and corporates are constantly looking for such human resources who are adept and yet adaptive. More so, they look for those who are resourceful and at the same time are inventive.

This department strives continuously for bridging the gap between academia & industry accruing rich dividends for both, students and their future employers. Industries across the globe have recognized the challenges of preparing Engineering Graduates to become industry ready.

INDUSTRIAL VISIT



MOU & COLLABORATIONS

To foster academic industry collaboration and to facilitate the advancement of knowledge to the students and faculties of the Institute MoU signed with 18 different organizations out of those 10 industries and 8 Educational Institutions.



ACTIVITIES UNDER COLLABORATION





Managed By St.Thomas Mission(Reg.No: 8400/79), Bhilai

CHRISTIAN COLLEGE
OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to CSVTU



25+
Years of
Excellence

Website: www.ccetbhiali.ac.in

Mobile No.: 9981966111, 9981991429

STUDENT PERSONAL INFORMATION FORM

Candidate's Name:.....

Mobile Number:.....WhatsApp Number:.....

Email ID:.....Date of Birth:.....

Father's Name:.....

Father's Occupation.....Mobile Number:.....

Email ID:.....

Mother's Name:.....

Caste: SC/ST/OBC/General Category:.....Religion:.....

Address:.....

Academic Information

S.No.	Class	Board	% Marks	Remark

Interested In: Mechanical / Elex & Telecomm. / Electrical / Computer Science Engineering

Fees:.....Scholarship Amount:.....

Reference Person Name: (A).....(B).....

Student Signature

Parent Signature

Admission Incharge Signature



- Scholarship for SC/ST & Minority students.
- Bishop Mar Theodosius Scholarship.
- St.Thomas Mission Scholarship.
- Dr.Sandhya Pillai Memorial Meritorious Scholarship.
- Meritorious Scholarship for students who secured 80% and above.
- St.Thomas Mission Society Scholarship for North Eastern students.





LIFE@CCET

Starting with SYMPHONIA, the amalgamation of JOY, MUSIC & INTER COLLEGE TECH-FEST which has participation of students from various engineering colleges, the festive season in CCET consist the tech-fest of two days, Annual sports meet, Inter college games events of cricket, football, volleyball, basket ball, robot war, dance, war of bands and many more...

Symphonia The Amalgamation of Joy, Music & Inter College Tech-fest

Symphonia is an annual festival of fine arts celebrated by the students. Competitions in music, dance, drama, literature, sports and much more. The best talents among the students flourish through Symphonia.



OUR DISTINGUISHED ALUMNI



Rakhee Mayuri

(IFS:2012), Under Secretary
(Finance-II) at MEA, New Delhi



Ankur Raj Varshney

Director & Founder of ASCO
Consultancy Services.



Ila Tiwari

CEO Zila Panchayat
District Umaria, Govt of M.P., India



Shraddha Ballal

Director, Purplestrings Consulting Ltd.
Founder - Namaste Kingston CiC



Prashant Kurup

Cricketer, Player ID :2544359
Current Team : Bahrain



Vijay Relwani

Founder & CEO of Relwani Automobiles
Raipur



Harsh Bijwe

Research Engineer
Center for Development of Telematics.



Jibi Shaji Varughese

Planning & Cost Engineer
Petrarabigh, Saudi Arabia

CONNECT WITH US

GET IN TOUCH

If you're considering studies at the Christian College, we'd love to hear from you online.

submit enquiries online at:

ccetbhilai.ac.in

For information on our course and entry requirements contact

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North East, Nagaland : +91 87877 98831
Bihar, Jharkhand & West Bengal : +91 99346 90200

📍 **Doha, Qatar:**
Mr. Lenin: +974 6688 3196

📍 Visit us:
Kailash Nagar, Industrial Estate
MP Housing Board, Bhilai 490026

✉ Write us:
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ccet@ccetbhilai.ac.in
ccetadmissioncell@gmail.com

