



**CHRIST**  
UNIVERSITY  
BANGALORE, INDIA

Declared as Deemed to be University under Section 3 of UGC Act 1956

## FACULTY OF ENGINEERING



## Christ University

Christ University is administered by its founders Carmelites of Mary Immaculate (CMI). Blessed Kuriakose Elias Chavara, a visionary educationist and social reformer of the nineteenth century founded the CMI congregation in 1831.

Christ University was formally established in July 1969 as Christ College under Bangalore University. The University Grants Commission conferred Autonomy to Christ College on 7 October 2004. It became the first College in South India to be reaccredited with A+ by National Assessment and Accreditation Council (NAAC) in May 2005. The UGC identified it as an Institution with Potential for Excellence. On 22 July 2008 the Ministry for Human Resources Development, Government of India, under Section 3 of the UGC Act, 1956 declared Christ College as a Deemed to be University in the name and style of Christ University.

Christ University, a premier educational institution, is an academic fraternity of individuals dedicated to the motto of Excellence and Service. The University welcomes students from all over the world to an environment of religious harmony and secularism.

# VISION

## EXCELLENCE AND SERVICE

### MISSION STATEMENT

Christ University is a nurturing ground for an individual's holistic development to make effective contribution to the society in a dynamic environment.

### CORE VALUES

- Faith in God
- Moral Uprightness
- Love of Fellow Beings
- Social Responsibility
- Pursuit of Excellence



# Faculty of Engineering

Christ University Faculty of Engineering (CUFE) was established on 14 September 2009, to impart quality technical education in the field of Engineering. It is focused on producing holistically developed and effective leaders, in the field of Engineering and Technology, to reshape the technological climate of our University.



At CUFE-Kengeri, learning is not just a series of instructions but a passion which goes beyond books and instructions. Here, the students are enabled to learn by experience and explore new realms of wisdom. The Faculty of Engineering offers graduate, postgraduate and doctoral programmes in Engineering, as per the guidelines of the University Grants Commission and AICTE. CUFE has a flexible curriculum offering several options in different areas of specialization, which cater to both industry and research.



The programmes offered at the Faculty of Engineering incorporate a number of special opportunities such as internships, clinical labs, supervisory research, paper writing and paper presentations. In order to promote interaction between students and professionals from the industry; seminars, guest lectures and workshops are conducted on various topics of engineering at regular intervals.

Faculty of Engineering has a well-equipped infrastructure. The entire campus is Wi-Fi enabled. The students have access to two different library facilities, namely the technical library and the online library. The Engineering library has over 10,000 books, several reports and theses, and a subscription to over 50 technical journals. It also has access to online databases like IEEE.

## COURSES OFFERED

### Undergraduate Programme (4 years)

#### B.Tech.

The B.Tech. programme at CUFE aims to provide the students with world class technical education, which will enable them to get jobs in the industry right after graduation. B.Tech. programme is offered in the following fields at CUFE:

- Civil Engineering
- Computer Science and Engineering
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Information Technology
- Mechanical Engineering

### Postgraduate Programme (2 years)

#### M.Tech.

The M.Tech. programme aims to provide a strong foundation for research on completion of 4 semesters. The courses offered are highly streamlined for very specific areas of research. The M.Tech. courses are offered in the following disciplines at CUFE:

- Communication Systems
- Computer Science and Engineering
- Machine Design
- Structural Engineering

## Integrated Dual Degree Programme (5 years)

### B.Tech. with M.Tech.

The integrated B.Tech. with M.Tech. programme is structured in a way that students can align themselves towards research in specific domains of their fields of engineering. Integrated dual degrees are offered in the following disciplines at CUFE:

- B.Tech. (Civil Engineering) and M.Tech. (Structural Engineering)
- B.Tech. (Computer Science and Engineering) and M.Tech. (Computer Science and Engineering)
- B.Tech. (Electronics and Communication Engineering) and M.Tech. (Communication Systems)
- B.Tech. (Electrical and Electronics Engineering) and M.Tech. (Power Systems)
- B.Tech. (Information Technology) and M.Tech. (Information Technology)
- B.Tech. (Mechanical Engineering) and M.Tech. (Machine Design)

### B.Tech. with M.B.A

Christ University Faculty of Engineering shares its campus with the Christ University Institute of Management (CUIM). This gives us an opportunity to offer an integrated dual degree programme with B.Tech. and M.B.A. This programme aims at producing individuals with both technical and managerial skills. Such students can directly join the industry at administrative levels, while still possessing the pre-requisite technical knowledge of their respective fields.

### B.Tech.

- Civil Engineering
- Computer Science and Engineering
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Information Technology
- Mechanical Engineering

### Ph.D. Programme

- Civil Engineering
- Computer Science and Engineering
- Electronics and Communication Engineering
- Mechanical Engineering

### Certificate Programmes

In addition to the mandatory courses spread throughout the programme of study, the Faculty of Engineering has also introduced numerous value-added certificate programmes.

- Algorithms for Programmers
- MATLAB Programming
- Network Storage Technologies
- Synthesis, Characterization and Applications of Advanced Materials
- Communication Skills
- German Language

## FEATURES

- Innovative curriculum and methodology
- Multi-tech engineering facility
- Well qualified and dedicated faculty
- Lush green campus
- Wi-Fi enabled campus
- Hostel facilities for girls and boys
- Transportation facility from the main campus
- Cafeteria, kiosk and book stall
- Auditorium
- Library with reputed online journals
- Learning management system

### M.B.A.

- Finance
- Marketing
- Human Resources
- Lean Operations and Systems



# EVENTS 2011–2012

## MAGNOVITE 2012

Christ University Faculty of Engineering presented its first ever Technical Fest, MAGNOVITE 2012, on 9 and 10 February 2012. The fest was kick started with a workshop on Ethical Hacking, conducted by Kyrion Securities, on 27 and 28 of January 2012, to make the students aware of the different aspects of ethical hacking.



The festival was an amalgamation of various technical events like RoboWars, Line follower, paper presentations and many non-technical events like debate, quiz and Blind Art.

## BLOSSOMS

Blossom is the intra-deanery cultural fest of Christ University with motto 'Be the best'. This is a unique venture where all the students of Christ University participate in at least one event. The events are divided into four categories – Art, Theatre, Stage and Literary. Engineering students obtained the first position in the Inter-Deanery dance competition at Blossoms 2011.



## CHAKRAVYUH

Introductory quizzing sessions were organized by the TechClub, where people are familiarized with the pattern of questions asked during quizzes and the level of difficulty. The first session of CHAKRAVYUH-I was conducted on July 2011. CHAKRAVYUH II, the fresher's quiz, was also successfully organized.

## PROFESSIONAL DEVELOPMENT SESSION

To arm the best and the brightest students with the skills necessary to influence policy and change, CUFEE offered a workshop designed to provide professional training in effective negotiation, communication and leadership skills, as well as a special opportunity for networking. The primary workshop goal was to produce more leaders to achieve their full potential in the top ranks of their profession. The workshop was held on 23 August 2011 by Brigadier N.R. Moorthy and Mrs. Moorthy.



## INVESTITURE

In 2011 the campus witnessed the investiture of two new blocks. A new block for the Mechanical Department where labs like forging, lathe and various other instruments are installed. The other block has a new cafeteria and a hostel with accommodation for 200 students. A new staff quarters was also inaugurated. The foundation stone was also laid for a new hostel in the month of September 2011.

## UNIVERSITY EXCHANGE PROGRAMME

Student exchange programmes offer broad-based benefits and outcomes for students keen to embark on international adventures. Most of these are intertwined and come together to constitute the overarching exchange experience. International learning and knowledge propels students towards acceptance and understanding of an array of different cultural and community perspectives.

Self-development and awareness leads to enhanced self-confidence and self-esteem. This is often the most noticeable change in the students. To promote this idea CUFÉ offered a cultural exchange programme with the University of Arkansas through University Studies Abroad Consortium (USAC). A tremendous sense of accomplishment upon completion encouraged students to develop independent opinions, make decisions and strive to attain fresh goals.

On 23 February, CUFÉ conducted a student exchange programme with FHWS, Wurzburg-Germany. Twenty-four students and four faculty members from FWHS and in equal numbers from CUFÉ had participated in this programme. The interaction was followed by a presentation of the latest technologies.

The university signed MoU with the Catholic University of America, Washington DC, for academic collaborations.

## ETHNIC DAY

Most ethnic groups possess aesthetic values central to their culture that are embodied in particular art forms such as music, visual arts, drama and myth. At CUFÉ, Ethnic Day is organized to create awareness and to bring alive the aesthetic values in the students by encouraging them to wear the respective ethnic dresses. As they say, seeing is believing and truly- a mini India in vibrant colours and style is seen at CUFÉ on that day.



## ACE

An Ipomo, Vodafone and Blackberry collaborated Aptitude Test was held successfully at CUFÉ on 12 November 2011. ACE is an initiative that enables students to use the

TWEEK mobile application on their BlackBerry smartphones. The TWEEK application has been developed by IPOMO for BlackBerry and enables students to access topicwise questions, answers, formulae, refresher notes and even papers of previous years related to various competitive exams.



## **CENTRE FOR SOCIAL ACTION (CSA)**

Centre for Social Action is a Students' Movement, for a humane and just society, with children as the focus. It was formed in order to coordinate social sensitization programmes targeted at the students and also implement service programmes for the marginalized children and their communities. On 2 December 2011, members of CSA visited a village in Kolar. There they were lead by children of the village who took them to their houses and they had conversations on the problems they face. They were really happy with the presence in their place and welcomed them with a warm smile. There was a talent search conducted for the under privileged students in CUFE campus on 11 December 2011 and various prizes were given to the winners and the participants.



Mr. Milind, a CSA member from CUFE, represented the University at a 9-day festival called 'India 2011' held at the Norwegian University of Science and Technology (NTNU). The main purpose of this festival, with India as its theme, was to develop research and education relationship with India. The goal is to get more joint research projects, and more exchanges of students and staff. So far, NTNU has around 60 students and staff from India.

## **CULTURAL EXTRAVAGANZA**

CUFE plays a vital role in the preservation, promotion and dissemination of art and culture. The main aim is to develop ways and means by which the basic cultural and aesthetic values and perceptions are kept active and dynamic among the students. It also undertakes programmes of preservation, encouragement and dissemination of various manifestations of contemporary creativity. The students, faculty, staff, and the local community have the opportunity to showcase their culture through music, dance, poetry, and other talents. A Talent Search Competition is conducted to explore the talents of the students in varied fields.



## **WOKSHOPS AND INDUSTRIAL VISITS**

Workshops at CUFE bring you face to face with state of the art technologies while providing valuable experiences under the guidance of renowned and expert professionals. Various workshops are conducted in different streams such as MATLAB, RF LAB, Microstrip Antennas, Digital Signal Processing, Computer Networks, Electronic Instrumentation, Network Simulation and Machine Shop. In the academic year 2011-2012, a team from Tektronics was invited to equip the students and faculty with a good knowledge of various electronic instruments used in universities and industries.



This year the students had the privilege of visiting the Infosys Campus and Kaynes Technologies located in Mysore. They also visited the RMG Technologies in Peenya, Bangalore. The students also went to Bangalore International Exhibition Centre where they had an exposure to various upcoming ventures in different engineering fields.

# Admission Guidelines

## Entry Level Eligibility for

- B.Tech./Dual Degree** - A pass in PUC (10+2) or equivalent with an aggregate of 50% marks in Mathematics, Physics and Chemistry.
- B.Tech. (Lateral Entry)** - Candidates who have successfully completed a 3 year diploma in Engineering are eligible to apply for lateral entry. Candidates will be admitted to the second year of the programme, after appearing in the Christ University selection process for Engineering programmes.
- M.Tech.** - A Pass in B.E./B.Tech./M.C.A./M.Sc. with at least 55% marks aggregate or equivalent grade.
- Ph.D.** - A pass in M.Tech./M.E./M.S. with at least 55% marks aggregate or equivalent grade in the relevant subject from any recognized University.

Candidates for Undergraduate Programmes can process their admissions based on the Undergraduate Entrance Test conducted by Christ University or Ranking from COMEDK.

## Applications are Available Online and in Portable Document Format (PDF) on our website

Candidates pursuing final year and appearing for exams during April/May 2012 can also apply with the available marks

**For more details on eligibility, selection process,  
fee structure, important dates, visit our website [www.christuniversity.in](http://www.christuniversity.in)**

### Fee Concession/Scholarship

Students qualifying for Admission can avail Special Scholarship based on their academic performance. For more details, email us at [admission@christuniversity.in](mailto:admission@christuniversity.in)

### Student Accommodation Services

Hostel Accommodation is available for male students on campus and for female students outside campus. For accommodation services email us at [sas@christuniversity.in](mailto:sas@christuniversity.in)



## For further details contact :

### MAIN CAMPUS

Office of Admissions  
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### KENGERI CAMPUS

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