



CHRIST
(DEEMED TO BE UNIVERSITY)
BANGALORE, INDIA



CACE NEWSLETTER 2020

DEPARTMENT OF CIVIL ENGINEERING
CHRIST (DEEMED TO BE UNIVERSITY)



VISION AND MISSION—



CHRIST
(DEEMED TO BE UNIVERSITY)
BANGALORE • INDIA

VISION

CHRIST (Deemed to be University), a premier educational institution, is an academic fraternity of individuals dedicated to the motto of 'EXCELLENCE AND SERVICE.'

We strive to reach out to the star of perfection through an earnest academic pursuit for 'excellence,' and our efforts blossom into 'service' through our creative and empathetic involvement in the society to transform it.

Education prepares one to face the challenges of life by bringing out the best in him/her. If this is well accepted, education should be relevant to the needs of the time and address the problems of the day. Being inspired by Blessed Kuriakose Elias Chavara, the founder of Carmelites of Mary Immaculate and the pioneer in innovative education, CHRIST (Deemed to be University) was proactive to define and redefine its mission and strategies reading the signs of the time.

MISSION

"CHRIST (Deemed to be University) is a nurturing ground for an individual's holistic development to make an effective contribution to the society in a dynamic environment."

CORE VALUES

The values which guide us at CHRIST (Deemed to be University) are:

- Faith in God
 - Moral Uprightness
 - Love of Fellow Beings
 - Social Responsibility
 - Pursuit of Excellence
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DEPARTMENT OF CIVIL ENGINEERING

VISION

Serve and excel in the constantly changing societal needs with ethics and integrity.

MISSION

M1: To create awareness of societal needs and ethics in the dynamic environment.

M2: To impart contemporary knowledge in order to achieve excellence in academics and profession through the experience of lifelong learning.

M3: To carry out research in collaboration with research organizations and industry in order to add value to the profession and society at large.

M4: Instil leadership qualities, communication skills and team spirit necessary to meet challenges in the global environment.

OVERVIEW

Civil Engineering BTEch course is designed to meet the needs of modern Civil Engineering fields like Construction Technology, Geo-Technical Engineering, Irrigation Engineering, Transportation Engineering, Structural Engineering, Environmental Engineering, etc. By the time students complete this course, they will be fully trained to analyze and design the complicated structures.

PROGRAMME OUTCOMES OF CIVIL ENGINEERING DEPARTMENT

PROGRAMME EDUCATIONAL OBJECTIVES (PEO):

PEO-1: Fundamental Knowledge:

Statement: A competent professional being aware of societal needs, demonstrates by applying fundamental knowledge and technical skills to analyse and support the activities in the field.

PEO-2: Lifelong Learning:

Statement: Facilitate programmes of lifelong learning, through skill-based courses and interaction with industry leading to professional expertise.

PEO-3: Research and Consultancy:

Statement: Engage in research and consultancy projects of the department.

PEO-4: Leadership Qualities

Statement: Develop sense of social responsibility, leadership qualities, communication skills and team spirit.

PROGRAMME SPECIFIC OBJECTIVES (PSO):

PSO1: Analyze and Design structural systems:

Statement: Analyze, design, construct and manage sustainable structural systems

PSO2: Investigate civil engineering materials:

Statement: Investigate properties of civil engineering materials.

PSO3: Modern Surveying: Statement: Plan for

buildings, maps, and alignments for canals and roads using modern surveying instruments.

FOREWORD FROM VICE CHANCELLOR



DR FR ABRAHAM VETTIYANKAL MANI

It is my great pleasure to extend heartfelt greetings to the readers of the first issue of the Christite Association of Civil Engineers (CACE) newsletter. I see that the student association of the Department of Civil Engineering CHRIST (Deemed to be University) are involved in various activities with the encouragement and support from the faculty of the department. The newsletter shows that the department fosters a culture that is always focused on doing what is best for the students and ensuring that they have a positive educational experience that will impact them for a lifetime. I wish the faculty and students of Department of Civil Engineering all the best on this occasion



FOREWORD FROM DIRECTOR - SCHOOL OF ENGINEERING

It is with immense pleasure I write this message on the release of the newsletter by the Christite Association of Civil Engineering (CACE). The newsletter highlights the events and activities related to academics with encouragement from the faculty of the department. It is heartening to see the involvement of the students who participate in research and publish research articles and present papers in the conferences. The department has taken constructive efforts to groom the students to serve society progressively. I wish the CACE team and the Department of Civil Engineering all the best and hope to see the department reach greater heights in the future.



DR FR BENNY THOMAS

FOREWORD FROM DEAN - SCHOOL OF ENGINEERING

I write this message on the release of the newsletter by the Christite Association of Civil Engineers (CACE) with satisfaction and pride. I see the association of students of Department of Civil Engineering with the support of their faculty have been able to organise various events and activities in the academic year 2019-20, including being part of research, which I am sure has developed their knowledge and skills required for them to contribute to the society with passion. I am sure that they will make most of the exposure and experience that they have received, and with their innovative ideas, they will make the University proud of their achievements in the future. I am proud to be part of this community of dedicated students and teachers. My best wishes to the department of civil engineering for their contribution for a better future.



DR. IVEN JOSE



FOREWORD FROM THE HEAD OF THE DEPARTMENT



It is with great pleasure I write the foreword for the first issue of the newsletter of the Department of Civil Engineering. It is often said that the "Children must be taught how to think, not what to think," and to enable this, our vision of excellence and service is brought out through a holistic approach. Each issue of the department's newsletter will be a milestone that will mark the department's growth, unfold imaginations, and gives life thoughts and aspirations. It will unleash a wide spectrum of creative skills ranging from writing to editing and even in designing the newsletter which is a perfect blend of creative thinking, art, knowledge and wisdom which vibrates in the inner soul of various stake holders.

It is natural to find in this ambience, the intensive use of a variety of thinking activities, strategies and group dynamics to make this issue interesting and thought provoking. I congratulate the entire editorial team for their effort in bringing out this newsletter in a very innovative way. On this occasion, I congratulate all graduating students of 2020 batch. I am sure that they are going to have successful career and will lead their life extraordinarily. My best wishes to the students and faculty of the department of civil engineering for all their future activities...



DR. RAGHUNANDAN KUMAR R

THE DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering, CHRIST (Deemed to be University), was established in 2010. It offers programs in B. Tech (Bachelor of Technology) in Civil Engineering, BTech Civil (Construction Engineering and Management) with Artificial Intelligence and Machine Learning, M. Tech (Master of Technology) in Structural Engineering, and PhD, for students who aspire to excel in the field of Civil Engineering. The model curriculum, and innovative teaching methods adopted by the department, is a portal for students to achieve a professional degree catering to the industry practices.

The novelties in the curriculum help the students to experience the industry's atmosphere during their courses, giving them clarity of selection of field, and the knowledge required for developing oneself in the selected field. With qualified professors for guiding students in their areas of interest, the Department of Civil Engineering hosts various programs, site visits, workshops, industry interactions, support for attending conferences, publishing of papers, research in technology, camps to enhance the professionalism and leadership skills of students. Advancements in technology come with research and development according to the results of the research. While classroom theories help students grasp what is already existent and proved through time and experience, research and experimentation allow us to see the world in a completely different perspective.



HEAD OF DEPARTMENT
DR. K. RAJU NANDAN KUMAR
B.E., M.E., MBA



PROFESSOR
DR. NARASIMHA
MURTHY K.N.
B.E., M.TECH, MCA, PHD



PROFESSOR
DR. ARAVIND H.B.
B.E., M.E., PHD



ASSOCIATE PROFESSOR
DR. HRISHIKESH MANI
M.TECH, PHD



ASSOCIATE PROFESSOR
DR. SUSHREE M.B.
B.E., M.E., MSc



ASSOCIATE PROFESSOR
DR. SUJATHA UNNIKRI-
SHNAN
B.TECH, M.TECH, PHD



ASSOCIATE PROFESSOR
DR. UPPALURI SRUJAN,
B.TECH, M.TECH, PHD



ASSISTANT PROFESSOR
DR. BELLAM N
B.TECH, M.TECH, PHD



ASSISTANT PROFESSOR
DR. HOSSAIN NABIL JALAL
B.E., MS, PHD



ASSISTANT PROFESSOR
DR. JACOB ALEX
KOLLERAJI
B.TECH, M.TECH, PHD



ASSISTANT PROFESSOR
LAXMI
B.E., M.TECH



ASSISTANT PROFESSOR
DR. SALEEMA PANDA
B.TECH, PHD



ASSISTANT PROFESSOR
SARATHICHANDRA K. BTECH,
M.TECH



ASSISTANT PROFESSOR
SRINIDHI LAKSHMI
KULKARNI
B.E., M.TECH



ASSISTANT PROFESSOR
THEJAS H.K.
B.E., M.TECH



ASSISTANT PROFESSOR
VENKUMAR S.S.C.
B.E., M.TECH



ASSISTANT
PROFESSOR
ADARSH S.V
B.TECH, M.TECH



ASSISTANT
PROFESSOR
DARSHAN PRACHAN
B.TECH, M.TECH, PHD



RESEARCH
ASSISTANT
PRATAP KUMAR J
B.E., M.E.

Non-teaching staff



Mr. Gnanavel



Mr. Parashuram

RESEARCH & PUBLICATIONS 2019-20

Advancement in technology comes with results of the research and development undertaken. While classroom theories help students grasp what is already existing and proved through time and experience, research and experimentation allow us to see the world in a completely different perspective. Often it is not a spark of idea that becomes a revolution, but a rigorous schedule of experimentations and trials on existing technology, that gives way for a new innovation, or discovery, which either explains a fundamental theory in more detail, or redefines a theory be applied more efficiently in practice, or redefine the fundamentals entirely which happens in rare occasions. This philosophy of research and development is followed, and the laboratory facilities provided for the use of students and faculty brings out the novelties and ideas into tested and proved technology.

S.N O	ACHIEVEMENT	REMARK	FACULTY
1	Patent Publication	Dr. Nabil Hossiney successfully completed reviewing of a manuscript entitled "Properties of high calcium fly ash geopolymers concrete containing recycled asphaltic concrete aggregate cured at ambient temperature", that was submitted for publication in the journal entitled <i>Journal of Building Engineering</i> .	Dr. Nabil Hossiney
2	Journal Paper Publication	Imran S. M., Raghunandan Kumar R., Arun Kumar (2020) Optimum Design of a Reinforced Concrete Ribbed Slab. <i>Journal of Civil Engineering Research</i> 2020, 10(1): 10-19.	Dr. Raghunandan Kumar
3	Journal Paper Publication	Yu Chen, Hainian Wang, Zhanping You and Nabil Hossiney published an article "Application of phase change material in asphalt mixture – A Review", <i>Construction and Building Materials</i> , Elsevier (In Press)	Dr. Nabil Hossiney
4	Journal Paper Publication	Gowaram Iswarya and Beulah. M published an article "Use of Zeolite and Industrial Waste Materials in High Strength Concrete- A Review", <i>Materials Today: Proceedings</i>	Dr. Beulah M
5	Journal Paper Publication	Col. Sudhir MR and Dr. Beulah M published an article "A Micro Structure Exploration and Compressive Strength Determination of Red Mud Bricks prepared using Industrial Waste", <i>Materials Today: Proceedings</i>	Col. Sudhir MR & Dr. Beulah M

RESEARCH & PUBLICATIONS 2019-20

S.NO	ACHIEVEMENT	REMARK	FACULTY
5	Journal Paper Publication	Col. Sudhir MR and Dr. Beulah M published an article "A Micro Structure Exploration and Compressive Strength Determination of Red Mud Bricks prepared using Industrial Waste", Materials Today: Proceedings	Col. Sudhir MR & Dr. Beulah M
6	Journal Paper Publication	T.V. Bijeesh and K.N. Narasimhamurthy (2020) Evaluation of Machine Learning Algorithms for Surface Water Delineation Using Landsat 8 Images. Journal of Advanced Research in Dynamical & Control Systems, 12(3)	Dr. K.N.N. Murthy
7	Journal Paper Publication	T.V. Bijeesh and K.N. Narasimhamurthy (2020) "Surface water detection and delineation using remote sensing images: A review of Methods and Algorithms" in Sustainable Water Resource Management	Dr. K.N.N. Murthy
8	Journal Paper Publication	Kollerathu J.A. (2020) Idealised Bilinear Moment-Curvature Curves of Reinforced Masonry (RM) Walls. In: Subramaniam K., Khan M. (eds) Advances in Structural Engineering. Lecture Notes in Civil Engineering, vol 74. Springer, Singapore.	Dr. Jacob Alex
9	Book Chapter Publication	Prashant Sunagar, Aravind Bhashyam, B. R. Neel and Abhishek Kumar Chaurasiya1(2020) Sustainability Concepts in the Design of Tall Structures. Learning and Analytics in Intelligent Systems, Springer, International Conference on Emerging Trends in Engineering (ICETE), Emerging Trends in Smart Modelling Systems and Design. ICETE 2019, LAIS 2, pp. 270–277, 2020.	Dr. Aravind Bhashyam
10	Book Chapter Publication	Prashant Sunagar, Aravind Bhashyam, Manishh S. Dharek, Sreekesava K. S. and Rakshith K. (2020) Instability Analysis of Fiberglass Reinforced Plastic (FRP) Subjected to the In-Plane Loading. Emerging Technologies for Sustainability, CRC Press, Proceedings of the Annual International Conference on Emerging Research Areas (AICERA 2019), Kottayam, Kerala, 814(2020) 012040.	Dr. Aravind Bhashyam
11	Book Chapter Publication	Dr. Beulah M and Prof. Sarat Chandra K published a Springer Book Chapter on "An Experimental Study on Utilization of Red Mud and Iron Ore Tailings in Production of Stabilised Blocks"	Dr. Beulah M & Prof. Sarath Chandra K

RESEARCH & PUBLICATIONS 2019-20

S.N O	ACHIEVEMENT	REMARK	FACULTY
12	Conference Proceeding	Prashant Sunagar, Aravind Bhashyam, Manish S Dharek3, Sreekeshava K S, Ramegowda R S, Lakshmi H S (2020) Stress strain characteristics of reinforced hollow concrete block masonry melded with mesh reinforcement. IOP Conf. Series: Materials Science and Engineering, IOP Publishing, 814(2020) 012040.	Dr. Aravind Bhashyam
13	Conference Proceeding	Manish S Dharek, S Raghunath, Prashant C Sunagar, Aravind H Bhashyam, Sreekeshava K S (2020) Blast resistance of steel plate shear walls designed for seismic loading. IOP Conf. Series: Materials Science and Engineering, IOP Publishing, 814(2020) 012041.	Dr. Aravind Bhashyam
14	Conference Proceeding	Publication of a peer reviewed research paper entitled "A Detailed Geotechnical Investigation on Redmud and Chemical Analysis of it's Leachate" in the Indian Geotechnical Conference, (IGC 2018), IISc Bangalore, India during 13 - 15, Dec. 2018. The proceedings of the IGC 2018 is now published as a book chapter.	Prof. Sarath Chandra K
15	Conference Proceeding	Publication of a peer reviewed research paper entitled "An Experimental Investigation on Flexural Strength of Ferrocement Slab Made of Slag Sand Partially Replaced With Iron Ore Tailings" in the Second International Conference on Materials Science and Manufacturing Technology 2020 (ICMSMT 2020), Coimbatore, Tamil Nadu, India during 09 - 10, April 2020. The proceedings of the ICMSMT 2020 is published by the Institute of Physics, United Kingdom in the IOP Conference Series: Materials Science and Engineering (MSE).	Prof. Raghunandan Kumar
16	Conference Proceeding	Thejas H.K., Hossiney N. (2020) Use of Waste Foundry Sand in Precast Concrete Paver Blocks—A Study with Belgaum Foundry Industry. In: Kanwar V., Shukla S. (eds) Sustainable Civil Engineering Practices. Lecture Notes in Civil Engineering, vol 72. Springer, Singapore.	Prof. Thejas H.K. & Dr. Nabil Hossiney

RESEARCH & PUBLICATIONS 2019-20

S. No	Author(s)	Title of the Paper	Journal / Publisher Name	Year	Indexing on Digital Platform
1	Raghubandan Kumar and G.R. Reddy	Transient Analysis of the Reinforced Concrete Framed Structure with Steel Fibres When Subjected to Blast Loads	Journal of Advanced Research in Dynamical and Control Systems	2019	Scopus
2	Liju T Abraham and Narasimha Murthy K N	Strengthening of Fired RC Beam Column Joint using Geosynthetics	International Journal of Innovative Technology and Exploring Engineering	2019	Scopus
3	P. T. Sowmya Naik and K. N. Narasimha Murthy	Framework for Controlling Interference and Power Consumption on Femto-Cells In-Wireless System	Springer Nature Switzerland AG 2019 R. Silhavy et al. (Eds.): CoMeSySo 2019, AISC 1046	2019	Book Chapter
4	Jyoti Metan and K. N. Narashinha Murthy	N-tier modelling of robust key management for secure data aggregation in wireless sensor network	International Journal of Electrical and Computer Engineering	2019	Scopus
5	Sunand M, Sujatha Unnikrishnan and Akshara Menon	Load Deflection Behaviour of RC Beams: Nonlinear Analysis	International Journal of Civil Engineering and Technology	2019	Scopus
6	Nabil Hossiney, Hima K S, Mothi K M, Arjun H R, Santhosh G and Jorisa Chyne	Alkali-activated concrete paver blocks made with recycled asphalt pavement (RAP) aggregates	Case Studies in Construction Materials	2019	Scopus
7	Srinidhi Lakshmish Kumar, H.B. Aravind and Nabil Hossiney	Digital Image Correlation (DIC) for measuring strain in brick masonry specimen using Ncorr open source 2D MATLAB program	Results in Engineering	2019	Scopus
8	G. Gayathri, Dinesh Sankar Reddy, C.R. Shashi Kiran, P. Maveen Kumar Reddy, Beulah M	Degradation of Azodyes in Wastewater by Using Hydrodynamic Cavitation Technique	International Journal of Recent Technology	2019	
9	P. Das, M. Beulah, N. Hossiney, U.M. Dunna, S. Kavitha	A Probable Mathematical relationship between Si/A ratio and (Ca/Si) ratio on the compressive strength of an iron ore tailings sample arising out of geopolymeric reactions.	Journal of Mining and Metallurgy, Section A: Mining	2019	
10	Abinash Mohanta, K.C. Patra and Arpan Pradhan	Enhanced Channel Division Method for Estimation of Discharge in Meandering Compound Channel	Water Resources Management	2020	Scopus/ SCI

RESEARCH & PUBLICATIONS 2019-20

PATENT- "SAFETY SYSTEM FOR COLLISION AVOIDANCE IN RURAL ROADS AND HIGHWAYS"- BY DR. NABIL HOSSINEY JALLAL,



Dr. Nabil Hossiney Jallal

RESEARCH PROJECT

Value Addition in Mine Waste Tailings Through Geopolymer Formulations.

-Rs. 12 Lakhs

-PI- Dr. Raghunandan Kumar and Co-PI Dr. Beulah.

M- Ministry of Mines, Govt. of India



Dr. Raghunandan Kumar

Value Addition in Waste Foundry Sand from Belgaum Foundry Cluster and Red Mud from Hindalco For Use as a Low Cost Civil Construction Material

- Rs. 20. 5 Lakhs

-PI- Dr. Beulah. M

From DST



Dr. Beulah M

CONSULTANCY

Development of Integrated Disaster Management Plan and Livelihood Frame Work for Kogadu District Karnataka

- Rs. 6.0 Lakhs

- PI, Dr. Shibu K. Mani



Dr. Shibu k Mani

RESEARCH PAPERS

International Journals 75+

National Journals 2+

International Conference 10+



CHRISTITES ASSOCIATION OF CIVIL ENGINEERS CACE INAUGURATION 2019-2020



The inauguration of student association Christites Association of Civil Engineers - CACE 2019-20 was held on the 6th of July 2019 in the Kengeri campus, Faculty of engineering, CHRIST (Deemed to be University). In the ceremony, the new office bearers for the department were inducted by the Associate Dean, Dr. Iven Jose. The chief guest for the occasion was Dr. L R Manjunatha , senior manager JSW. Head of the Department of Civil Engineering, Dr. Raghunandan Kumar, Guest speakers, the faculty members, and the students of the respective department were present on the occasion.

The inauguration ceremony was followed by lectures by the guest speakers. Mr. T S Gururaj, innotech consultants, Pvt. Ltd presented a guest talk on the challenges faced by the construction industry. It was followed by a lecture about the pre-construction activities for construction project by Col. Kannan. Mr Nagesh, Keppel Purvankara Development Pvt. Ltd presented a lecture on different types of construction methodology and construction process. All the guest talks were followed by an interactive section where students were able to raise their questions and get clarification.

GUEST TALKS :

- Challenges faced by the construction industry
- Pre-construction activities
- Different types of construction methodology and construction process



Mr. T S Gururaj



Mr. Nagesh



Col. Kannan

ENVIRONMENT DAY

Green doings brings Green Rewards

Civil engineering department hosted a series of events as part of environmental day celebration starting from 5th to 16th June. The events provided everyone a chance to be socially aware about the environment and be part of events related to it. The environmental day celebration started with the quiz competition on 12th June. Treasure hunt and marathon was held on 13th June which brought participants closer with the green environment in the campus. Poster making competition on the topic air pollution was conducted on 14th June followed by a photography competition on the topic Green Campus. All these events were successfully conducted by the department under the leadership of different even heads from the students.

The chief guest was Dr. Madhavi from Karnataka state Pollution Control Board and she gave a speech on the functioning of Pollution Control Board and environmental awareness. The program also included welcome speech by Dr. Raghunandan, environmental day oath, prize distribution for the various events conducted as part of environmental day and vote of thanks by Dr. Aravind. The events were successfully organised by Department of Civil Engineering and created an awareness about the environment and the present scenario about the problems due to environmental pollution.

The environment week was concluded with the environment day celebration from the open auditorium where the students from all departments, teaching and non teaching staffs gathered together to pay tribute to the environment.



EXPERIENCE ENGINEERING PROGRAM

Department of Civil Engineering organized a two days EEP (Experience Engineering Program) program for all the newly joined students of Engineering. Total 240 students were registered for the EEP and they are divided into two batches each of 120 students. Batch 1 attended on 13th June 2019 and Batch 2 attended on 14th June 2019. On both days, the program begun at 9:15AM with a welcome address by the Head of Department Dr. Raghunandan Kumar during which he introduced the overall details of the department to all the students and presented a video on Department of Civil Engineering, CHRIST. At 10:15 am the EEP - Civil coordinator Prof Sarath Chandra K, divided the total 120 students into 6 batches in which each batch contained 20 students and explained the detailed schedule. From 10:30am to 1:00pm, all the batches visited the laboratories of the department, and the faculty-in-charge of each laboratory explained in detail about each laboratory, giving a hands-on experience with an experiment in each. Students recieved the laboratory visits positively and interacted well with all the faculties and discussed about various civil engineering concepts. From 2:00pm to 4:30pm a treasure hunt and poster making were conducted for all the students in part with the environment day celebrations by Prof Adarsh S V and winners were appreciated. The expected outcome was attained on both the days by involving all the students in various labs and activities effectively.



INDUSTRIAL VISITS

As a part of co-curricular, the Department of Civil Engineering hosts a series of visits to construction and operation sites where the students witness and experience construction as it happens in real life. Being in Bangalore (one of the most active places in India when it comes to infrastructural development) it is an ideal ground for students to get a visual and hands-on understanding of the construction industry, hand in hand, fulfilling the gap between industrial reality, and classroom learning. For the academic year 2019-20, the Department of Civil Engineering provided the students the following industry visits.

Survey of India, Department of Science & Technology, Govt. of India - 3BTCL & 5BTCL - 20/6/19

A site visit was arranged to create awareness among the students about advanced surveying and mapping techniques which are useful in Natural Resource Management, Disaster Management and Urban Planning and Management. Survey of India is the oldest Engineering Department in India and is responsible for precise positioning, navigation and mapping. Students were exposed to practical aspects like Dimensional and two Dimensional mapping, techniques in ESRI's Arc GIS, Leica Geo-systems Photogrammetric Suite and MicroStation Software packages to post process the Drone based images and stereoscopic data sets.



INDUSTRIAL VISITS

Anjaneya Brick Works (ABW) - 3BTCI - 28/6/19

Department of Civil Engineering of Faculty of Engineering, CHRIST Deemed to be University organised a site visit for 3rd semester BTech Civil Engineering students, to Anjaneya Brick Works (ABW), Bangalore on 28th June 2019. The objective of Industrial visit is for students to acquire knowledge through practical aspects like interaction, working methods, and employment practices. It also provides an exposure to students about the practical working environment and awareness about industrial practices. The visit to ABW Brick Works helped the students to acquire knowledge of brick manufacturing process. Dr Sujatha Unnikrishnan and Dr Narasimha Murthy K N, faculty members of the department accompanied the students. We thank the management of Anjaneya Brick Works (ABW) for permitting us with an opportunity to witness the brick manufacturing process and for permitting to interact with the workers.



Ready Mixed Concrete Plant KIADB Kumbalagud : 3BTCI -10/02/2020

The main objective of the site visit was to bridge the gap between the industry and academia, and to meet the curriculum demand. It was also aimed at enhancing the practical knowledge of the students by observing how a Ready Mix Concrete (RMC) works and how RMC is being made and transported. It gave us a brief insight on the advancement in technology.

The RMC plant is situated in 1st Phase, Kiadb Kumbalagodu Village, Kengeri Hobli, Kumbalagodu, Bangalore South. The session started at 1:30pm in batches of two. The session began with an introduction to the RMC plant by the staff member. Their motto is "Quality and service with every truckload". He was very keen to know what the students expected from this visit to make it more fruitful. He explained about the technical aspects and the safety measures to be taken at the site during the visit. He explained us about the entire process of ready mix concreting, starting with the batching of aggregates, mix design formulation for the grade of concrete recommended by the consultant, mixing of aggregates, shafts used (twin shaft was used), storing of aggregates, silos, advancement in technology, cube test results to analyse data statically, and finally about transporting.

In this RMC plant it deploys expert quality systems to manage the quality of raw material and efficient raw mix design. It is manufactured through computerised automatic batching and mixing with contemporary technology. Homogeneous mixing of concrete is ensured by use of special high efficiency turbo twin shaft mixer. Transport is done through transit mixers (delivers ready mix in plastic state to site) and also done through volumetric concrete mixer (ready mix delivered in dry state to the site). The students also had an opportunity to observe the making of ready mix concrete. The visit ended with feedback, questionnaire and sharing the ideas of the site visit.



INDUSTRIAL VISITS

Sobha Precast Unit, Balagere, Bangalore, Karnataka - : 6BTCL - 25/02/2020

Students of Department of Civil Engineering, School of Engineering and Technology, Christ have attended Sobha pre cast unit which is located in Balagere, Bangalore as a part of Industrial visit. Sobha precast unit has 2 types of working systems, one is Dowewell tube method and another one is Stationary method. In Dowewell tube method, pallets are shifted from one work station to another according to the progress of the work and in stationary method the pallets are placed there and all work, such as reinforcement and curing is done at a particular location. In precast yard, curing is done in an enclosed atmosphere which makes the process faster. Each pallet or precast element will be ready for construction within 6 days. It's a great exposure to witness the huge equipments used for precast works which are completely automatic and bought from Germany. It was a nice experience to students who gained a lot of information about precast structures and construction using precast elements



INDUSTRIAL VISITS

Indian Railway Institute of Disaster Management (IRDM), Bangalore, Karnataka :- 6BTCE & 8BTCE - 11/02/2020

Students of Department of Civil Engineering, School of Engineering and Technology, Christ attended Indian Railway's Institute of Disaster Management, which was a first institute in that specialisation located at Kanmanike, Bangalore. Mr Sunil Kumar Gupta, Director at IRDM facilitated the program and Mr. Gopalachari Mohan, Lecturer at IRDM took the rail accident case studies. He made students visit lifesaving skill training room and made demonstration of model. The railways have earmarked the 3.32 sq km village of Hejjala, with a population of 3,483 people, to develop its Disaster Management Institute and Safety village at a cost of Rs. 44.42 crores, according to the blueprint accessed by PTI. For the practical training as a part of the safety village tunnel, cutting, embankment, other conditions and obstructions like overhead structures and platforms were created. Mr Srinivas Rao, Assistant director at IRDM gave a demonstration on jacks, crane etc. He explained about diesel hydraulic breakdown crane, imported from Germany but customized for Indian conditions and also explained how safety factors are incorporated into it which is considered to be great



SITE VISITS



Public Works Department, Bangalore, Karnataka - : B.TECH & M.TECH Final Year Students- 17/06/2020

The main objective of the site visit was to bridge the gap between the industry and academia and to meet the curriculum demand. It also aimed at enhancing the practical knowledge of the students by observing the ongoing construction work. The ongoing bridge is a single span RC bridge of span 10.42 meters with an estimated cost of around 88 Lakhs. The bridge connects Ramohalli to Moligondanahalli via Tavarekere road in Bangalore South. The session began with an introduction to the project by Mr Narayanagowda, Assistant Engineer , Public Works Department, Bangalore. He was very keen to know what the students expected from this visit to make it more fruitful. He explained about the technical aspects of the project in brief and the safety measures to be taken at the site during the visit. During the visit, the construction of abutments was in progress so the detailed and working drawing of the abutments was explained very clearly to the students. They were also exposed to the process of reading and understanding the working drawings at the site. The students also visited some of the minor bridges (culverts-Box type) on the way back and had very good practical insights.



WORKSHOPS

Bridge Design Workshop

The Department of Civil Engineering, in association with Civil Simplified of Skifi Education Labs Pvt Ltd organized a work shop on bridge design, fabrication and testing for the 2 nd year B.Tech students on 22nd , 23rd and 24th August 2019. The students were briefed on the theory involved in construction of bridges, the different types of bridges and various bridge design concepts. During this workshop, the students were also trained on using industry grade analysis and design tool SAP 2000 by CSI Berkeley. The students modelled a truss bridge using SAP 2000. They also analyzed the bridge and arrived at the optimum design of cross section of members used. After analyzing, the students fabricated the bridge using balsa wood. Upon completion of the fabrication, the bridge was tested for maximum load carry and the group which fabricated the most efficient bridge were awarded certificates of merit. An award was also given for the most innovative bridge.



Construction Project Management Workshop

The Department of Civil Engineering, in association with Civil Simplified of Skifi Education Labs Pvt Ltd organized a work shop on Construction Project Management for the 3rd year B.Tech students on 22nd , 23rd and 24th August 2019. The first session began with an introduction to the fundamentals of construction management. The students learnt about the roles and responsibilities of a good project manager. The students learnt the basic terminologies used in the field of construction. They were introduced to the various departments of construction namely, structural, mechanical, electrical, plumbing, architecture, contractors and laborers management. The students were introduced to PRIMAVERA. On day three the students were given a practical problem and asked to schedule the entire project and its components and find out the most critical paths. They also exchanged their views on the project and discussed the challenges faced by them during the scheduling.

Total Station Workshop

The Department of Civil Engineering, in association with Civil Simplified of Skifi Education Labs Pvt Ltd organized a work shop on Total Station for the 3 rd year B.Tech students on 22nd , 23rd and 24th August 2019. The first session began with an introduction to the fundamentals of surveying. The students also learnt about the different types of instruments used in surveying. They learnt about EDM and GPS system. The students were taught how to set up a station using total station. They also learnt how to close a traverse of a small area using a total station. The students were asked to close a traverse of a small catchment lake within the campus. The students were divided into four groups of eight members each. They were asked to set up the total station individually and calculate the errors in measurement. On day three the students were asked to close a traverse of a big area and record the features of the ground and local objects like trees and light poles. They were taught how to take measurements of a contour and identify random points based on the GPS co-ordinates. The data recorded was transferred to a laptop and the students using industry grade software, processed the data obtained.



GUEST LECTURES

The Department of Civil Engineering is involved with the industry actively and regularly hosts lecture sessions for students and faculty through experts from industry. For the academic years 2017-18 and 2018-19, the following seminars took place through the efforts of the faculty, and the Student body.

Bridges and Culverts

-Mr A C Shiva Kumar

(Retd. executive engineer of Karnataka Public Works Department)

The Department of Civil Engineering, through CACE , arranged a guest lecture on Bridges and Culverts, which was delivered by Mr A C Shiva Kumar, retired executive engineer of Karnataka Public Works Department. His presentation covered the concepts related to the design and construction of bridges and culverts. He also discussed the various challenges that could be faced during and after the construction. The lecture began with the discussion of the history and evolution of bridges, followed by the classification of bridges. The discussion of Indian Standard Codes required for the practice of Bridge Engineering was covered in detail. Emphasis was laid on the adherence to the codal provisions. The design of bridge was covered in two parts – the design of substructure which includes soil investigation, design of foundation, design of piers, hydrological studies, and design of pier caps and bearings; the design of superstructure which includes the design of deck slab, beams, wearing surface, expansion joints, and certain functional elements like railings, lightings, footpaths etc.

The students were able to relate to the classroom concepts while extracting knowledge from the experience of the resource person. Particular details and challenges that can arise in construction were discussed in detail including aspects of climatic conditions, risk factors, and disaster mitigation.



Practical Aspects of Construction Management

-Mr C M Ramakumar, Technical Head,
Synergy property Development Services
Pvt. Ltd.

The speaker focused on the practical aspects of construction management at project sites. He explained the importance of planning construction projects prior to execution. He elaborated the importance of cost and its implications on the success of a project. He emphasised on the need for codal compliances without which project design execution would come under quality scrutiny. He also highlighted that the students must become completely familiar with IS 456-2000 as it is considered as the Bible of construction engineers. The speaker explained the challenges of manpower faced by the construction industry and the slow steady shift towards equipment-oriented approach at construction sites. The speaker also educated the audience on the significance of safety and quality at sites. With the help of slides, he described the new construction techniques to save manpower, cost, time in project sites and advised the students to become familiar with construction software for becoming better site engineers and useful construction employees in future



GUEST LECTURES

Smart Cities and Smart Construction Materials

Prof. Sreehari. M. N
**(Founder Indian Smart City
Development Organisation)**

Students of Department of Civil Engineering, School of Engineering and Technology, Christ (Deemed to be University), Bangalore had a guest talk about smart cities and smart construction materials on 30 th January 2020. Speaker was introduced by MC's and welcomed by Prof Raghunandan Kumar, Head of the Department with a sapling. It was a great opportunity for all students to get familiarized with Smart Cities. The speaker Prof Sreehari M N, who gave a brief introduction about smart cities and what was meant by smart cities. He mentioned that smart cities alone were not enough, but required to be sustainable and livable. The whole idea was, how to make a city, village, and temple smart. He also shared that smart cities require smart people. There are 27 core elements for infrastructure for sustainable cities, which were explained with a simple presentation and also, mentioned that elements for smart villages and temples are about 36 elements that means smart villages and temples requires more elements (compare to smart cities). The guest talk was really helpful for all the students to get idea about smart and sustainable cities. At the end speaker was felicitated by Dr Aravind HB, Professor with a memento and vote of thanks by the MC's.



Women Empowerment :

Major Sneha Chaudhary, Indian Army

The department organised a guest lecture by Major Sneha Choudary, Indian Army on 06 March 2019. The guest lecture commenced with a formal introduction of the guest speaker by Colonel Sudhir M R of the department. The lecture followed the introduction and the speaker focused on role of women in nation development. She explained about the importance of women education and their major contribution in nation building. She also talked about the increase in employment opportunities for women in higher education. Similarly, employed women are able to contribute to the economy of family as well as socioeconomic development of the country. The speaker also highlighted on the importance of educating girl child for the overall development of the country.



Engineers Day

Engineering is not only knowing and being knowledgeable, not merely analysis, not only the possession of the capacity to get elegant solutions to non-existent engineering problems, but it is practicing the art of the organized forcing of technological change.



On 20th September, 2019, Engineers day was held at CHRIST (Deemed to be University) Faculty of Engineering, Kengeri campus. The program started at 9:00 am continued till evening 4:00 pm. After the inauguration of ICETech 2019 at first block auditorium, at 9:30 am there was a ribbon cutting ceremony which was done by the Chief Guest Dr. K Balasubramanian, Director, NFTDC, Hyderabad. After that the students showcased their projects and explained to the faculty and students about their projects. There were 14 projects from the Department of Civil Engineering namely Blue Energy, Landfill Leachate Treatment, Engineered landfill, Smart Irrigation System Using NTF and IOT, Endless Runway, Tuned Mass Dumper, Floating Bridge, Earth Air Tunnel Cooling System, Eco Bricks, Smart drainage system, Sustainable Constructions, Geopolymer concrete, Earthquake Resistant Structure, hydraulic bridge. Winners were felicitated with cash prizes and certificates. From this exhibition student got a lot of informative technical knowledge and experience which they can utilize in the future.

PROJECTS

- Blue Energy
- Landfill Leachate Treatment
- Engineered Landfill
- Smart Irrigation System Using NTF and IOT
- Endless Runway
- Tuned Mass Dumper
- Floating Bridge
- Earth Air Tunnel Cooling System
- Eco Bricks, Smart drainage system
- Sustainable Constructions
- Geopolymer Concrete
- Earthquake Resistant Structure
- Hydraulic Bridge

CONFERENCE PRESENTATIONS BY STUDENTS

Students from the 6th semester presented a paper "Comparative study on strength properties of Red Mud with Fly Ash and Red Mud with Pond Ash To Use As A Subgrade Material" in the National Conference on Civil Engineering at National Institute of Technology Surathkal, Karnataka. The work was done under the guidance of Assistant Professor Sarath Chandra K, Christ Deemed to be University Bangalore. The students involved in the project were Amber Kulshrestha, Tripujitha, Vomkaram Raja Ramesh, and Sadaif Andrabi. A comparative study was performed for the waste material red mud with two different ashes namely, fly ash and pond ash, and all the basic tests for the individual materials were in a combination of red mud with fly ash and pond ash. A comparison of the results was conducted and a conclusion was that a combination of these materials are feasible as a subgrade for road construction.



AMBER KULSHRESTHA



SADAIF ANDRABI



RAJA RAMESH



TRIPUJITHA



TWO DAYS
WORKSHOP

NEW TRENDS IN TRANSPORTATION AND GEOTECHNICAL ENGINEERING

IN ASSOCIATION WITH INDIAN CONCRETE INSTITUTE, INDIAN
GEOTECHNICAL SOCIETY, BENGALURU CHAPTER.



The Department of Civil Engineering, CHRIST (Deemed to be University) conducted a National Workshop on New Trends in Transportation and Geotechnical Engineering on 18 and 19 of February, 2020. There was a formal inauguration for the event. The dignitaries present were Prof. M N Srihari, Advisor to Government of Karnataka For Traffic, Transportation & Infrastructure Founder, Indian Smart City Development Organisation; Prof. Gladys Jacob, the Campus Administrator; and Dr. Raghunandan Kumar, Head of Civil Department.



Applications of Intelligent Transport System to Traffic Management and Transport Planning".

Post Intelligent Transport System Implementation: What Next

Recent Practices in Pavement Engineering"

"Transportation flow modeling

Case Studies in Forensic Engineering for Earthquake Disaster Mitigation"

Geotechnical Investigation and its Importance

Right Perspective of Geotechnical Investigations and Correlations in Transportation Geotechnics"

The workshop comprised of eight sessions (Two days):

The first session was taken by Prof. Sreehari, Advisor to Government of Karnataka For Traffic, Transportation & Infrastructure Founder, Indian Smart City Development Organization, who delivered a lecture on "Application of Intelligent Transport System to Traffic Management and Transport Planning".



The second session was delivered by Dr. Gopi Prasad, Director, IDES, Bengaluru., on the theme " Post Intelligent Transport System Implementation: What Next ".



The third session was given by Dr. Anjaneyappa, Associate Professor, RVCE on " Recent Practices in Pavement Engineering".



The last session of day one was given Mr. Vinob Isaac on "Transportation flow modeling".

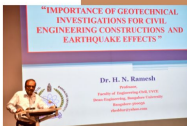


The first session of the second day was delivered by Dr. L. Govindraju Professor, UVCE on " Case Studies in Forensic Engineering for Earthquake Disaster Mitigation"

The second session of the day was delivered by Dr. H. N. Ramesh Principal, UVCE on "Geotechnical Investigation and its Importance".

The third session was delivered by Dr. H.B. Nagaraju Professor, BMSCE on "Right Perspective of Geotechnical Investigations and Correlations in Transportation Geotechnics".

The fourth session was delivered by Dr. Parthasarathy C. S, Chairman IGS-Bengaluru Chapter and Founder, Chairman and Managing Director, Sarathy Geotech & Engineering Services Pvt. Ltd on "Field Practices in Geotechnical Engineering".



There was a valedictory function conducted following the talks by eminent personalities. The function began with a feedback session by external participants. The vote of thanks was delivered by Prof. Sarath Chandra. The workshop was concluded with the Christ Anthem. Faculty members along with students participated actively in the workshop. This enthusiasm hints that every session is welcomed. The students feel the need to learn about the emerging needs in the Industry and keep themselves updated. The large number of questions from students was indeed impressive and subtly conveyed that the young minds are open for discussions with curiosity.



International Construction Equipment and Construction Technology Trade Fair -



This event was one of the largest Construction Equipment and Technology Fair and exhibition that showcases the best of the equipment & technologies to aid India's accelerated plans for infrastructure developments. Reputed speakers from various organizations briefly explained the latest green trends and technologies in the field of construction and how to minimize the use of conventional materials and methods.

Various case studies on green factory building were illustrated, and a comparison from the past 10 years was presented by the speakers. Forecasting for the future was also discussed. The event was organized in order to bring out exposure to its students and delegates from the industry, to sow the seed of interest and to enhance their knowledge about the latest technologies.



PROFESSIONAL BODIES

Department of Civil Engineering is a member of various international and national organizations, to ensure the knowledge imparted is at par with global standards

Association of Consulting Civil Engineers (ACCE)



Association of Consulting Civil Engineers(India)

Indian Concrete Institute (ICI)



Indian Concrete Institute

Institution of Engineers (IEI)



Institution of Engineers (IEI) (India)

INDUSTRY COLLABORATIONS

Department of Civil Engineering has varied research projects and collaborations in order to keep up with the latest industry demands.



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LAVASA SURVEY CAMP



The survey camp is one of the most remarkable journeys a civil engineer experiences through his/her career. A seven day stay in the quaint high range of Lavasa, in Pune, Maharashtra district, makes for a wonderful learning experience for the students to work in the age-old art of engineering survey, with the help of the latest equipment in use (the total station). The seven days mark a defining period for a civil engineering graduate from our university, as one gets to build up professional excellence and personal integrity through team-building, inclusiveness, innovation in the face of problems, critical thinking and leadership in engineering sense.



LAVASA SURVEY CAMP

Surveying was carried out on hills, valleys, roads and villages through the duration of stay by four groups consisting of 7-8 members each. Members in each group got a chance to operate and handle the revolutionary instrument (Total Station) for surveying. The main aim of this camp was to groom students with knowledge, exposure to real work, and to encourage leadership and teamwork skills. During the course of the camp, we undertook the projects such as Drone Surveying, New Tank Project (NTP), Old Tank Project (OTP), Highway Alignment, Water Supply System. On the first day, Reconnaissance and Drone surveying was conducted at the allotted sites. Each member in the group got the chance to operate the total station, and to hold the prism staff. At the NTP site, Theodolite was needed to maintain the alignment. The acquisition of knowledge and social happiness obtained from the camp could not be obtained from just books and lectures. The rapid development in the Civil Engineering methodology has broadened our horizons and we realized the engineering survey is a golden opportunity for us to be aware of the new technologies, and difficulties during the work in the field. The students were aware of the spirit and importance of teamwork. Experiences of such survey camps are invaluable for enhancing a student understanding of the field and site work. We are delighted and grateful to have such an excellent camp organized by the College not only to travel but also to learn, to explore and to reflect.



THE CHOICE OF A LIFE



WRITTEN BY BRENDA

Most of the time I am questioned about why I decided to study Civil Engineering. It has always been easy and spontaneous for me to give a response to this question. There are millions of reasons why I chose to take this path in life; Civil Engineering has always been more than a passion for me.

My love story with civil engineering started from the day I realized how important being a Civil Engineer was for the society. At that time, I didn't know much about it until I decided to join the Department of Civil Engineering at Christ (Deemed to be University).

My premises were not facile, but deep within me I was willing to go till the end in order to realize my dream. I knew that I could climb uncountable number of steps to attain my goal; I could walk tirelessly to reach my destination. I have only one goal in mind, and that is to become one of the best civil engineers my country will have to benefit. Do you have an idea how many mountains John Smeaton climbed to reach his target and to be considered as the "Father of Civil engineering" Do you believe in the law of universal attraction? I believe that when we really want something; if we work on it despite all odds and stay focused and true to our goal; we will achieve it. I have so many reasons why I chose to study Civil Engineering; summarised below are some of the reasons which keep me dynamic, despite all the barriers I face daily.

1. IT IS SAID THAT "CIVIL ENGINEERING IS THE MOTHER OF ALL ENGINEERING DISCIPLINES"

It started long time before most of the other Engineering disciplines. From the beginning of the whole existence of humanity, Civil Engineering has always been a part and parcel of all our daily activities. Civil Engineering is not just about building roads or about a few mixtures of cement here and there; it's mainly the fulfilment of humanity's needs.

2. WE CAN TOUCH, FEEL AND OBSERVE WHAT WE STUDY AND NOT JUST LEFT DAYDREAMING

As a student it is easier to understand the behavior of things which are tangible rather than things which are abstract or conceptual. Ever since I've been a toddler, I always had so many toys which I used to build bridges with especially when I saw them in town. Growing up, it has always amazed me how a huge mass like vehicles could travel on something so smooth like the asphalt, and not go into the earth. With this childhood memory still in mind, I strive and work harder every single day to deepen my understanding in this domain so that I could be able to build better infrastructures.

3. JUST LIKE WATER, THERE IS NO LIFE WITHOUT CIVIL ENGINEERING

Weird right, but Yes that is what I think. Can you imagine a world without bridges? Without roads? Do you see how beautifully roads are connected? That's Civil Engineering. A world without your beautiful apartment, building or house? A world without irrigation and water resources? That's how the supreme beauty of Civil Engineering comes into the picture: dealing with our daily needs; resolving problems of drainage, poor road structures, water supply, traffic control, river sedimentation, canals, airports, harbors etc. Those are really interesting. It may be quite complicated if you are not a Civil Engineer to see these things from my point of view and understand how amazing it is to craft nothing out of few pieces of metal, gravel, stones and cement, but believe me the fact of constructing bigger things with those smaller materials which people visibly consider insignificant makes my heart full of joy and satisfaction.

4. CIVIL ENGINEERING CHALLENGES ME AND AROUSES MY CURIOSITY

Overcoming my limits has never been an easy task for me but studying Civil Engineering has instilled in me this affinity and thirst for knowledge which I could not understand. It has enabled me to make and beautify a lot of things in my life. My level of interest towards "the mother of all the engineering " increases each and every day

5. SOCIETAL BELIEFS

I grew up in a society where a woman is unheard; a society where a woman cannot decide to take up a field such as civil engineering amongst others.

Women are not only underrepresented and discriminated in such area, but they are also ridiculed. While raising awareness about this troubling and painful reality, we should convince girls and women to pursue these careers. It is not enough to proclaim emancipation of women. I think the best way is to be a woman who challenges the society and shows that there is nothing that a woman cannot do. Being a woman should never be a handicap to get into a certain Engineering discipline, and I believe my other female mates here in CHRIST, India and across the world are doing a great job at proving those with this stereotypical way of thinking wrong.

To conclude, don't let fear or insecurity stop you from trying new things. Believe in yourself. Do what you love and love what you do.

BE WATER



BY CHRISTIAN BALEMBA

Have you ever thought how much you can pick out from science? To what extent all those theories can lead you? Or simply how amazing it is?

Yes; this may appear as a philosophy or just a point of view, but I would like to share through the following lines how I could relate our daily life to basic theories or concepts of Hydraulics. Life is similar to a system composed of a fluid flowing through a channel or pipe.

It may be static, kinematic, or dynamic depending on the characteristics of the area. The fluid represents a human being, and every human has their own characteristics like each fluid gets its own density, specific gravity, viscosity etc.

Viscosity is a measure of a fluid's resistance to flow. It describes the internal friction and it is one of the major characteristics of water determining the sort of flow which could occur in a pipe or channel since it is one of the factors involved in the Reynolds number. Life could be an open channel flow (extrovert) or a pipe flow (introvert) with all its roughness (obstacles) involved. It may seem smooth at the beginning as we know new pipes are so smooth, but as we are aging it becomes rough. There are many stages to pass through and many questions come into mind, many wishes, many obstacles... But if we allow our viscosity (internal resistance) to collide with that roughness, we are allowing ourselves to experience a static life and therefore to generate a turbulent flow.

Viscosity is that fear, scaring, shyness, self-destructive, in brief that mediocrity we should overcome first in order to flow forward. Few points are important in order to overcome that viscosity. In pipe flow, they will suggest decreasing the diameter of the pipe so that to get a high velocity. As we know from the continuity equation that discharge is proportional to the area of the pipe and the velocity of flow ($Q=A \cdot V$). Keeping the discharge constant i.e., keeping our goal constant; the moment I decrease one parameter this results to the increment of the other and vice versa. That means as we are reducing our field of working by mastering in one thing and staying focused to our objective, we are flashing toward our notch. In open channel flow, they will recommend increasing the slope. As we know slope is a variation, it is the ratio of the vertical and horizontal distances between two points. Every day by doing something new, we are changing and progressing towards our target. And it's well known that water flows only if there is a difference of pressure, that means we can talk about progress if there is a difference between the person you were yesterday and the person you are now.

To sum up, "Take the best that exists and make it better"; we always think that we need some deep introspection or some role model in order to make our life more meaningful and achieve our objectives, but we are totally blind and unfit to get more from what we learn daily. There are more wonders in science diminishing the impossible and the possible more visible in all aspects.



**BTECH
CIVIL ENGINEERING**

**BATCH OF
2016 -- 2020**

BTCl	
1	ADITYA C JOE
2	ASWIN RAVI MUNDOLY
3	BALEMBA BAKONKWA CHRISTIAN
4	LEVIN
5	T.RAGHU YAGNAVALKYA
6	AKSA JOHN
7	DAZZLIN ALEX
8	KOTTAYIL BINDHU ABRAHAM
9	MERIL MATHEW
10	MIRENGE MALONGA BRENDA
11	SUZANNE SARIJ JAMES
12	JERALD ANNA MATHEW
13	NITHIN M
14	SHIVAPUTRAPPA J MELLIGERI
15	ASHLIN VARGHESE
16	MANU MANGALAN
17	LINGALA MARY JAYASHEELA
18	ASHIF K C
19	ROBIN P LUKE
20	ANUJ NEMA
21	HARDIK MITTAL
22	SADHANA S
23	DEVADARSHAN G
24	PRANJAL JAIN
25	ANIRUDH SINGH RATHORE
26	ABHISHEK NAIR
27	ANKUSH BANERJEE
28	CHANDAN KUMAR SENAPATI
29	SRIRAM V
30	M VYSHNAVI



**MTECH
STRUCTURAL ENGINEERING**

**BATCH OF
2018 – 2020**

MTSE	
1	DIKESHWAR DEWANGAN
2	MAJIN MATHEW
3	MEBANTEISKHEM PYNGROPE
4	PRAJWAL JOHN A
5	YEDDULA SUJITH KUMAR REDDY
6	BHUPATHIRAJU PRANATHI
7	DEVIPRIYA H B
8	IARISHA KHARMIH
9	POTHULA ROSHINI
10	SONA N JOSE

ALUMNI TESTIMONIALS



RIYA RONEY

CHRIST (Deemed to be University), Faculty of Engineering is a brand for many people, but for the batch of 2015 - 2019 it is more than that. The four years spent in CHRIST were splendid and blissful. The vibrant campus and versatile culture attract anyone who steps into this campus. It was in the year 2015, we had begun our journey in this prestigious institution. Ever since I stepped into CHRIST, I was able to discover skills and abilities that I wasn't aware of. Now all those experiences have helped me to expand my horizon, driving me out of my limitations and to explore new things.

The infrastructure and the faculty demand a special mention. The relation between the faculties and students was very cordial. The department has always encouraged me as an individual to take up challenging roles/positions during the time I spent in CHRIST. Within the department and during the class, the faculties paid individual attention and nurtured each students based on their strengths and weaknesses.

Socrates rightly said, "Education is the kindling of a flame, not the filling of a vessel." The department aligns its curriculum as per the requirements of the industry and was keen that we update ourselves with the latest software packages used in the industry. This was done by incorporating these software packages into the curriculum and through various workshops. I have benefited a lot from the survey camp and various other workshops, site visits, guest lectures etc. held by the department.

Looking back helps us to gather a lot of memories. The time spent in CHRIST were the best days of our lives. They gifted most of us with some unforgettable memories to cherish forever. The campus, the canteen, the teaching and non-teaching staffs, the friends we made, the days we spent together, and the moments shared are priceless. The Overall experience was invigorating.

We all had a wonderful support network of people around us, without whom our degree wouldn't be possible. On behalf of my batch, I would like to thank Dr. Raghunandhan Kumar, the head of the department and all the other faculties for being with us in every step that we took and for nurturing and molding us to be better responsible and successful individuals. Being a Christite has always given me an edge above others. I feel blessed and proud to be a part of the Civil Engineering family and wish all the best to all the Civil Engineers out there.

- RIYA RONEY

ALUMNI TESTIMONIALS



ANIL SHASTRY

Hi, I am Anil Shastry, who graduated in M.Tech (Structural Engineering) in 2016. Being a Christie, I always enjoyed the multicultural atmosphere in the campus, which prompted me to have friends from different parts of the country and different parts of the world as well. Various technical and cultural events held in the campus helped me to sharpen my life skills, which would be an essential aspect for me in the long run.

As a student of structural engineering, I had the opportunity to learn and relearn the concepts related to my field, starting from the very base to the most advanced topics of the subject through innovative sessions. Impeccable knowledge of the faculty in Civil and Structural Engineering always turned the classroom discussions into a hotspot of information, which opened up my mind to think from a research perspective.

The friendly nature of the faculty and their willingness to share the knowledge was a highlight due to its obvious reason. Currently, I am working at RITES Ltd. as a Design Engineer. My success in the current job has a bearing on the subjects such as Design of Bridge structures, design of earthquake-resistant structures, design of prestressed concrete structures, etc. which I studied as a part of the curriculum in the current program. The transition of theoretical knowledge to practical work was an easy process due to the method of learning it. I had the opportunity to be well versed with commercial software such as STAAD Pro, ETABS, ANSYS, etc. which are part of my everyday professional life today.

For a student, who is looking for Civil Engineering or masters in it, I would recommend that person be a Christie to be a better engineer. Excellent lab facilities, a full-fledged library, and access to various online international journals satisfy the technical requirements of an engineer. The ethical requirements of an engineer will be satisfied by the holistic approach towards the above objective as imbibed by the University.

My name is Ramees Ali. I did my M.Tech in Structural Engineering at CHRIST and graduated in the year 2014. Since the first moment I came to CHRIST, I was met with nothing but energy and enthusiasm. The faculty and staff at this institution are highly professional. They all want their students to do well. This college has so many opportunities for the students to get the help they need. The professors have helped me beyond words. This college puts their students first. You will not be let down. I really believe it is a privilege to come to this college and I am so glad I made that decision. I can positively say this college has made me a better person. I am presently working as a Structural Engineer at Macobo Engineering, Dubai. The study skills and knowledge I acquired through the subjects taught were extremely beneficial, not only for achieving my desired examination results but also when put in to practice at work. It's not that they show you some secret or an easier way to achieve high points, but they teach you how to manage your time properly and the areas that need to be prioritized. I still use these skills and knowledge at work.



RAMEES ALI

ALUMNI TESTIMONIALS



SHIVAM KHADDAR

Hi, I'm Shivam Khaddar, completed my Bachelor's in Civil Engineering in May 2018. I'd always remember and cherish my four years at Kengeri Campus. I've always enjoyed different cultural and technical events organized by the Faculty of Engineering, CHRIST. Being a part of these events as a participant or as an organizer helped me to explore myself and develop communication, leadership skills that will prove to be an asset for my future. In addition to that, excellent course structure coupled with high academic standards further stimulated my interest in the field of Transportation Engineering. Even supporting the nature of faculties and their willingness to share knowledge helped me at every step of my life and shaped my career in the right way. In addition to that, the Faculty of Engineering gave me a chance to be a co-organizer of the TEDx event which changed my perception and personality totally. Graduate study a sequel to undergraduate study opens up

newer avenues to explore and gives one a wider range of career objectives. I pursued my passion to obtain a Master's degree in Civil Engineering just after my Bachelor's and joined the University of Ottawa, Ottawa, Canada in September 2018. My Bachelor's degree and courses dedicated to transportation engineering have made me competent in dealing with the technical and design aspects of transportation engineering. I'd highly recommend a person to join the Faculty of Engineering, CHRIST for several reasons: curriculum, location, global environment, and reputation. Department offers a dedicated course structure that bridges the gap between theoretical knowledge and industrial practice, excellent lab facilities, a library with access to reputed journals, and lot of extracurricular activities which are a mandatory component of an engineer's life.

"March on Christites, March on with heads held high and hearts so strong, march on Christites march on" Yes, CHRIST taught me to march forward and to face challenges with my head held high and with a strong heart. It was a great experience studying at CHRIST. The facilities, the opportunities, the support from the staff and management help every student over there to develop on their own. Those two years in CHRIST was a molding period for me, from an average student to a confident personality. The qualities I gained from CHRIST reflected in my personal as well as my professional life. A good guide can make wonders in a person's life. The university has chosen the best teachers available to fill the department to guide the students. The Department of Civil Engineering provided me with a strong educational foundation that gently helped to reshape and challenge me toward my career.

All the faculties in the department were approachable. They helped us and guided us during all the phases of our master's program. Today as a teacher, I remember those professional practice classes, where our HOD told how to erase the board and how to split the board. I thank my teachers for all those minute things and corrections which is not that small for me today. The final project is the most challenging part to obtain a post-graduation degree where one has to complete the project all by themselves. It is not possible to achieve this goal without proper guidance and support. I thank my guide who stood with me in all the difficulties and for sharing his knowledge and experience in making my project a reality.

The goal was achieved also because of the help and support from all my teachers and the college management who funded my project. That diversity within the educational environment, people from different countries, different cultures, their festivals, Ethnic day, Magnovite, that lush green campus, cycle rides, those games we lose, a bunch of good friends and teachers who still keeps in touch, friends from management department and many more is all I gained from CHRIST. Yes, I am proud to say that, "I am a Christite"



SAMEUL

ALUMNI TESTIMONIALS



DON THOMAS

Hi, I am Don Thomas. I graduated in B-Tech (Civil Engineering) in the year 2015. By God's Grace, I was able to join this beautiful campus. It is with immense pleasure that I write this testimonial. Being a proud Christite, I was fascinated by the greenery in the campus and its multi-diverse culture. This diversity enriches the educational experience and helps the students learn to communicate with people from various cultures and backgrounds. I always enjoyed how this diversity strengthens communities, fills positivity, and freshness to the people around. As a student of civil engineering, I had the privilege to learn and delve deeper into the fundamental concepts and advanced practical skills. All the faculties and staff were very supportive and encouraging. They helped us gain very good knowledge in all the fields of the Civil Engineering branch. The assignments which were given to us opened up the possibilities in the Civil Engineering branch both theoretical and practical.

The department is filled with lively and experienced faculties making my learning process light and enjoyable. Currently, I am a licensed practicing civil engineer and an entrepreneur managing a construction business. The engineering skills and the exposure I gained through the technical activities conducted at my university helped me in successfully transitioning from a student to an entrepreneur. My conversations with my friends in various other departments helped me a lot in understanding the market and customer perspective. For a student who is going to pursue graduation in civil engineering, I would proudly recommend joining the Department of Civil Engineering, as the department provides all the facilities required for a student to excel in their career. The student will not only be technically skillful but also holistically develop as a better human being, who can serve the needs of the society

Hi, I am Teena Thomas, graduated with B.Tech in Civil Engineering year 2018. I've had a wonderful four years at CHRIST, where I have developed both as a professional and as an individual to face all the future challenges. Department of Civil Engineering has been a very integral part of my development. Being a part of CHRIST cultural team gave me ample opportunities to explore and showcase my talents. Participating in outstation fests and winning numerous prizes made me more confident in life. Taking part in various activities through CSA (Center for Social Action) always imbibed a sense of social responsibility. Dristi - street theatres, gave me the courage to get out of my comfort zone, giving the society useful messages through acting, which gave me a sense of fulfillment. I am currently working in Habitat Technology Group as Project Engineer for Wayanad division. I am able to use my leadership skills and managerial skills which I have developed during my college days. CHRIST helped me improve my academic knowledge, practical skills and also help my holistic development. Hence, it is and will always be a great decision to be a CHRISTITE!



TEENA THOMAS

CACE 2020

CHRISTITES ASSOCIATION OF CIVIL ENGINEERS



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