

SRISHTI

NEWS LETTER

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DEPARTMENT OF CIVIL ENGINEERING
MANGALAM COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

Civil engineering branch is an ever growing stream of engineering with the huge amount of demand for new constructions with the increasing developments taking place in the world. The academic activities of the Department lays emphasis on deep understanding of fundamental concepts, development of creative ability to handle the challenges of Civil Engineering, and the analytical ability to solve problems which are interdisciplinary in nature. The department is committed to produce Civil Engineers which would usher India into a utopia of development.

VISION

To emerge as a knowledge centre in civil engineering education focusing on research and industry outreach services with emphasis on sustainable development.

MISSION

Mould Civil Engineers with high level of professional, moral and ethical values. Attain highest standards in theoretical as well as practical knowledge. Excel in major areas of Civil Engineering to respond to the current and future needs of the industry and higher studies. Employ the principles of continual quality improvement to enhance its programme and faculty.



• *From the Chief Editor's Desk*

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• *Faculty corner*

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• *MASS - Association of Civil Engineering*

FROM THE CHIEF EDITOR'S DESK



Prof. Reshma Kassim

Head of the Department

The country's expanding population and urbanisation will continue to generate a need for infrastructure development. To improve trade competitiveness and cope with the population growth, the government is focusing more on infrastructure development, which is expected to result in regular investments in the maintenance and expansion of road infrastructure in the near future

Residential construction was the largest market in the Indian construction industry during 2011-2015, and is anticipated to remain relatively sizeable over the next five years, with a 30.6% share of the industry's total value in 2020. Construction activity in the residential market will be supported by rapid urbanisation, population growth, and positive developments in regional economic conditions. Government efforts to clear slum areas by 2022 and reduce the country's housing deficit will also help the market grow.

A world of great opportunities are waiting for a civil engineering graduate.

I seize this opportunity to bid a warm adieu to the outgoing batch of students on successful completion of their course of study. I am confident wherever our students will be placed shall work with passion, perfection and dedication. Wishing you all the best in future ventures, efforts and careers.

EDITOR'S



Prof. Reshma Kassim
Chief Editor



Asst. Prof. Sruthi Krishnan V.
Editor



Asst. Prof. Alice Johnny
Editor

As the economy improves, often the construction business does as well—but that industry is still looking for sound strategies, not just structures. After the housing dip of a few years ago, value is still on people's minds as there isn't a guarantee that another downturn couldn't be around the corner. As we have entered the next millennium, we, the engineers need to contemplate our next move very cautiously as we anticipate a new dawn to usher where the limits of engineering and technology will be tested time and again and pushed beyond all limits...

Around the world today, there is a discussion and debate on designing the future of societies and nations in the new context that is going to emerge. However, speculating what lies ahead of us in the next few centuries is an arduous task; especially since the dynamics of technological, economic and societal growth changes very rapidly. As we look back, one finds that India's achievements in the post-independent era are size-able. We have functioned as a nation in spite of the cultural, social, political, economic and religious diversities and integration of states. We have a vibrant democracy, an independent judiciary, and a diversified and widespread industry. We lacked economic or military clout, yet

we contributed significantly to the establishment of an equitable world order. In spite of all that we have achieved, several formidable challenges still remain. Exploding population, widespread poverty, illiteracy, squalor, ruptures & cleavages based on region, religion, language and gender threatening the social fabric, urban congestion, wounded ecosystems, critical power and energy situation.

Another dimension to the challenge has been added by globalization in terms of both economy and geopolitics. Never before in the history of mankind, did a country with democratic dispensation had to feed so many poor and teach so many illiterates and also simultaneously compete with the most advanced countries for a place under the sun. We enter the next millennium, therefore, with a great challenge. In-spite of the problems, we have all the pre-requisites to convert them into opportunities. For this, we need a fresh thinking. We need a new vision of India. This vision cannot merely be a derivative of the past. It has to be, of course, based on the reality of the present, but it has to have a boldness, ambition and hope, which is commensurate with the aspiration of this great nation.

FACULTY CORNER

FACULTY ACHIEVEMENTS/PARTICIPATION

1. Fr. Bennet Kuriakose has participated in the International Conference on "Structural Engineering and Construction Management" organized by Mar Athanasius College of Engineering, Kothamangalam on March 28-29, 2016.
2. Geethu Thomas has participated in the International Conference on "Structural Engineering and Construction Management" organized by Mar Athanasius College of Engineering, Kothamangalam on March 28-29, 2016. .
3. Fr. Bennet Kuriakose has presented a paper entitled "Early age temperature distribution in a massive concrete foundation" at International conference "RAEREST'16" organized by St. Joseph College of Engineering and Technology, Palai on 22nd April 2016.

PUBLICATIONS

1. Fr. Bennet Kuriakose has published a paper entitled "Probabilistic Settlement Analysis of Rafts using First Order Reliability Method", (2016), International Journal of Earth Sciences and Engineering, Vol.09, No.01, pp. 01-07
2. Fr. Bennet Kuriakose has published a conference paper entitled "Response of RCC Slab subjected to Air Blast Loading", (2016), Proceedings of International conference on Structural Engineering and Construction Management, Kothamangalam, March 28-29, pp. 115-121.
3. Geethu Thomas has published a paper entitled "Stability Analysis of Soft Clay Stabilized Using Stone Column", (2016), Proceedings of International conference on Structural Engineering and Construction Management, Kothamangalam, March 28-29, pp. 175-181.



Portable building

A portable, demountable or transportable building, is a building designed and built to be movable rather than permanently located. A common modern design is sometimes called a modular building, but portable buildings can be different in that they are more often used temporarily and taken away later. Portable buildings (e.g. yurts) have been used since prehistoric times.

The most familiar modern type of portable buildings are designed so that one can be carried to or from site on a large lorry and slung on and off by a crane.



FACULTY ACTIVITIES

NO.	NAME	DATE	FDP/SHORT TERM COURSE	DETAILS
1.	Alice Johny	15-20 Feb. 2016	STC on Advanced Techniques for Sustainable Water Resources and Environmental Management.	T.K.M. College of Engineering, Kollam.
	Sruthi Krishnan V.			
2.	Alice Johny	04-06 Jan. 2016	FDP on Concepts Coaching conducted by ICT Academy of Kerala.	Mangalam College of Engineering, Ettumanoor.
	Nissy Susan Mani			
	Smruthymol Joseph			
	Akhil Lal			
	Tissa Sebastian			
	Revathy N.			

Lodha's World One will bring India's name in the list of some of the world re-known engineering projects as it will be the tallest residential tower in the world.

Location- Upper Worli, Mumbai, Maharashtra, India.

Project Cost – Rs 20 billion (US\$320 million)

Architect - Pei Cobb Freed & Partners are the architects for World One.

Structural Engineer - Leslie E. Robertson Associates (LERA) are the ones doing structure designs for this project.

India's Lodha World One To Be World's Tallest Residential Tower

"A teacher takes a hand, opens a mind and touches a heart."





STUDENT'S CORNER



STUDENT AWARDS

1. **Shilpa S – 2nd Prize for Nail Painting – “Lumiere 2k16” at College of Engineering, Kidangoor on 17th Feb 2016**
2. **Kiran Sajan of S4 B Batch(member of College of Basket Ball Team) has won championship in the following tournaments:**
 - ▶ **SAFA ABC Tournament, Athiramupzha**
 - ▶ **Model Engineering College, Trikkakkara trophy.**
 - ▶ **Nakshathra, Saintgits Trophy.**
 - ▶ **PACE held at St. Josephs College of Engineering, Pala**
 - ▶ **Arena Tournament held at Amal Jyothi College of Engineering, Kanjirappally**
 - ▶ **Runners up in the MG University inter zone Tournament.**

PLACEMENTS



1. Riya Elizabeth Mathew of S8

GICE (Goan Institute of Communicative English), Jan '16



2. Akhila Shaji of S8

Tech Mahindra , Jan '16

STUDENT PARTICIPATION

1. Akhila shaji, Asha Anil, Haripriya M and Rajeswari K R have participated in the "*International Conference on Structural Engineering & Construction Management*" organized by Mar Athanasius College of Engineering, Kothamangalam, on March 28-29, 2016.

2. Athira Rajan has presented a conference paper entitled "Response of RCC Slab subjected to Air Blast Loading", proceedings of International conference on Structural Engineering and Construction Management organized by Mar Athanasius College of Engineering, Kothamangalam on March 28-29, 2016.

3. Geethu Lal has presented a paper "Sustainable traffic improvement for urban road intersections of developing countries: A case study of Ettummannoor, India" at St. Joseph's College of Engineering & Technology, Palai on 22nd April 2016.

4. P.G Students of our department attended one day workshop on "Scholarly Publishing " conducted by Elsevier hosted by SJ CET, Palai

STUDENT PUBLICATIONS

1. Akhila shaji, Asha Anil, Haripriya M and Rajeswari K R have published a paper entitled "Stability Analysis of Soft Clay Stabilized Using Stone Column", (2016), Proceedings of International conference on Structural Engineering and Construction Management, Kothamangalam on March 28-29, pp. 175-181.

2. Athira Rajan has published a conference paper entitled "Response of RCC Slab subjected to Air Blast Loading", (2016), Proceedings of International conference on Structural Engineering and Construction Management, Kothamangalam on March 28-29, pp. 115-121

"THE BEST WAY TO PREDICT THE FUTURE IS TO CREATE IT"



Makers of Architectural and Structural Symphony

Association of Civil Department

The Department of Civil Engineering organized a one-day Seminar on "Advancements in Concrete Technology" in association with MASS on 08/04/2016.



● Advancement in concrete technology

- Dr. Elson John
10:00am-12:30pm

● Sustainability in concrete construction

- Dr. Dhanya B S
1:30pm-3:30pm



● Dr. Elson John

Dr. Elson John has completed his Ph.D. in Civil Engg. from MG University in 1999 and MTech. In Structural Engg. from VTU, Belgaum in 2001. He acquired doctorate in Structural Engg. from IIT Madras.

He has 10 years of teaching and 2 years of industrial experience. He has also published papers in International Journal and National Conference.



● Dr. Dhanya B S

Dr. Dhanya B S has completed her Ph.D. in Civil Engg. from University of Kerala in 2002 and MTech. in Structural Engg. & Construction Management from University of Kerala in 2004. She was awarded her doctorate from IIT Madras.

She has 10 years of teaching experience and has also published 2 papers in Journal and 6 papers in Conference.

MASS