

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 center 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

SAY NO TO PLASTICS



Fr. Bennet Kuriakose

Head of the Department

Plastic is found in virtually everything these days. There are literally thousands of items used every day that need not be plastic. Currently they are made of plastic as that is the lowest cost method to manufacture these items. When we take those items into consideration, say drinking straws which have life for few minutes, remain for hundreds of years afterwards, should remind us of the real cost we pay for them. Even though plastic carriage bags of specific thickness is banned by the government, the current shop keepers even compel the customers to give it for free of cost, as if they themselves are doing a charity. These plastic wastes ends up in landfills, beaches, rivers and oceans and contribute to such devastating problems as the Great Pacific Ocean Garbage Patch, a swirling vortex of garbage the size of a continent where plastic outnumbers plankton. Luckily, there are simple steps we can take that will dramatically decrease the amount of plastic waste we generate.

1. Say no to straws
2. Say no to carriage bags, even if the shopkeepers give it for free.
3. Minimise the usage of bottled drinks and water.
4. Go with a container to get parcel from hotels, which will in turn help one to reduce risks of cancer by consuming food packed in low quality plastic containers and covers.
5. Recycle or burn off the waste plastic.
6. Say no to flex banners.

The decrease in demand will reduce the production. Let us save mother earth and our future generations.

EDITOR'S



Fr. Bennet Kuriakose
Chief Editor



Asst. Prof. Sruthi Krishnan V.
Editor



Asst. Prof. Alice Johny
Editor

Well into the current global economic crisis, it is clear the adversity we face is unprecedented. The Great Depression of the 1930s took place in a world with some 2.5 billion people, undiscovered natural resources, and reasonably healthy ecosystems. But the Grand Depression we are grappling with today occurs at a time when global population has ballooned to nearly 7 billion, more than half our ecosystem processes are profoundly disrupted, and climate change is an unavoidable reality. The world's economies have committed 10 percent of their collective wealth in a desperate gamble to maintain the old order.

Yet even with talk of green investment—at best, a modest 20 percent of this injected cash—the outcome of all this effort will be new, more heavily regulated economic regimes that continue to supervise profoundly unsustainable development. The London G20 Summit communiqué in April gave no specific reference to particular commitments to green technology or job creation, when the chance to do so was golden. We seem to be passing through four phases:

- Rejection of the scale of the crisis and a misguided response, which underlaid the Lehman Brothers collapse in September of last year. This profoundly destabilizing beginning period, which is nearly over, exacerbated the crisis.
- Restoration of the old economic order but with more hands-on regulation. Such restoration will not be possible in a world of depleted ecosystem services and diminishing natural resources, yet it is the primary aim of the G20 process.
- Revelation that some completely new “art of living” must be created, beyond belt-tightening. Speculative examples of how to move forward are just beginning to surface in the media and special reports.
- Renaissance in the form of a progressive establishment of a new eco-economy that feeds individual well-being and the common good. This phase is barely sketched out but has a distinguished intellectual history.

In his essay “On the Theory of Moral Sentiments,” for example, Adam Smith defined “virtue” as the product of four attributes: prudence through careful planning and consuming only what is necessary, where restraint is a feature of the moral soul; justice through the careful avoidance of knowable harm to others, on the basis of thoughtful action; beneficence through unconditional giving to others as a means to promote one’s own happiness as well as the happiness of others; and self-command through a highly developed personal sense of responsible moderation of any excessive desire or behavior, in the context of the conditions outlined above.

Creating a renaissance economy offers a fresh role for sustainability science. Its purpose will be to provide an innovative set of reliable measures to identify and evaluate the linked boundaries of nature and humanity’s tolerance and means to build resilience; offer credible ways to create a new meaning and purpose of prosperity that emphasizes the local and the communal; and share case studies of diverse community action that governments and citizens across the planet can learn from. In this cause, the functions of evidence-based science, innovative storytelling, and creative transitional scenarios will be vital. These are genuinely troubling times. The biggest challenge is not the vision, but the division of the remaining “free spend” to further a dubious restoration, leaving too little for the renaissance. Remedying this dangerous situation will require a sustainability science that charts the kinds of opportunities leading to global eco-awareness, betterment, and well-being.

FACULTY CORNER

FACULTY ACTIVITIES

SL. NO:	NAME OF FACULTY	DATE	FDP/SHORT TERM COURSE	DETAILS
1	Anitha Philip Aswathy Soman	1 st June to 7 th June 2016	Course on "Intelligent Transportation System".	RIT, Kottayam.
2	Sruthi Krishnan V	27 th June to 1 st July 2016	Short term training programme on "Remote Sensing and GIS".	NIT, Calicut.
3	Deepthy S Nair	27 th June to 2 nd July 2016	Short term training programme on "Durability of Reinforced Concrete Structures" Sponsored by TEQIP.	RIT, Kottayam.
4	Deepthy S Nair	29 th August to 2 nd September 2016	Faculty Development Program on "Finite Element Method".	College of Engineering, Kidangoor.

VOCABULARY

1. *Abioseston* - Non-living particulate matter found floating in watercourses.

2. *Back boiler* - A *boiler located at the back of a fireplace or stove.

3. *Earthquake Strap*— A metal strap used to secure gas hot water heaters to the framing or foundation of a house. Intended to reduce the chances of having the water heater fall over in an earthquake and causing a gas leak.



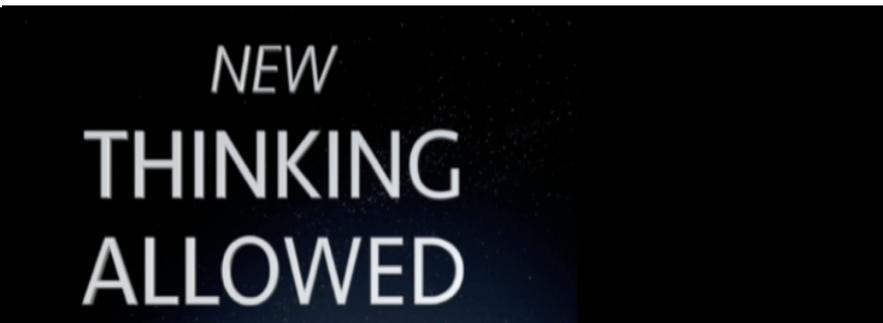
A good teacher is like a candle, it consumes itself to light the way for others.

PUBLICATIONS

1. Fr. Bennet Kuriakose, published an article entitled "Response of RCC Slab Subjected to Air Blast Loading" in International Journal of Engineering Research and Science and Technology, Vol. 3, No. 1, pp. 135 - 139.
2. Fr. Bennet Kuriakose, published an article entitled "Numerical Analysis of One-way RC Slabs Subjected to Air Blast Loading" in Proceedings of International Conference on Computing in Mechanical Engineering, Kochi.

INVITED TALKS & RECOGNITIONS

1. Fr. Bennet Kuriakose was invited as Technical Chair of AICERA 2016, Kanjirappally (29th & 30th July 2016)
He also participated and presented 4 papers in AICERA 2016, Kanjirappally.
2. Fr. Bennet Kuriakose delivered invited talk on "How to Build Earthquake Resistant Structures?" at College of Engineering, Kidangoor.
3. Fr. Bennet Kuriakose was one of the resource persons for TEQIP funded workshop on "The Finite Element Method" at College of Engineering, Kidangoor. (29, 30 th Aug. 2016)



1. Kansas City Public Library (Missouri, United States)
2. Wonder works (Pigeon Forge, TN, United States)
3. Ripley's Building, Niagara Falls, Ontario, Canada



STUDENT'S CORNER



PUBLICATIONS

STUDENT PARTICIPATION

- 1) Anandhu S Nair, Ashik Mohammed, Abhishek Biju, Alan George, Ashish Augustine, Amith C Mohanan, Amal Jomy of S7 A batch- Participated in “CAD Maestro conducted by Saintgits College of Engineering on 5th & 6th August 2016.
- 2) Adheena Anna Thomas, Akku B Thankam, Aparna Anilkumar, Amie Shaji Johnson S7 A batch - Participated in “Polaris Seeker” conducted by Saintgits College of Engineering on 5th & 6th August 2016.
- 3) Adheena Anna Thomas, Amie Shaji Johnson S7 A batch - participated in the event “Star of Eternia” conducted by Saintgits College of Engineering on 5th & 6th August 2016.
- 4) Adheena Anna Thomas, Amie Shaji Johnson S7 A batch - Participated in the event “C-Debugging” conducted by Saintgits College of Engineering on 5th & 6th August 2016.
- 5) Avinash V Mohan and Amith C Mohanan S7 A batch - participated in the event “Aerodominator”, conducted by Saintgits College of Engineering on 5th & 6th August 2016.
- 6) Tanuj Jacob Roy of S5 B Batch secured 2nd prize in the “Landscaping” event conducted by Saintgits College of Engineering on 5th & 6th August 2016.
- 7) Naufal P Naushad, Tanuj Jacob Roy, Johnson Sajeev and Praneeth Pramod of S5 B batch participated in the Quiz contest conducted by Saintgits College of Engineering on 5th & 6th August 2016.
- 8) Anupama P N, Athira Rajan, Feba S Thomas, Reshma Biju, Sneha George, Swethamol Shaji, Beegam Thaiba T, Gokul P V & Margaret Abraham (M.Tech Students of 2014-2016 & 2015-2017 SE&CM Batch), participated and presented papers in AICERA 2016 conducted at AJCE, Kanjirappally on 29th & 30th July 2016

1. Athira Rajan, M. Tech. Student, published an article entitled "Response of RCC Slab Subjected to Air Blast Loading" in International Journal of Engineering Research and Science and Technology, Vol. 3, No. 1, pp. 135 - 139.

The value of a college education is not the learning of many facts but the training of the mind to think.

- Albert Einstein

Makers of Architectural and Structural Symphony

Association of Civil Department

The department of Civil Engineering in association with MASS organized the following programs:

- 1) "The Art of Teaching"- two day FDP on 21st and 22nd July 2016 – Resource Persons: Dr. Samuel V T, Dr.Peter Mathew, Dr.Jins Mathew, Fr.Bennet Kuriakose. Course Coordinators: Ms. Reshmi A S, Mrs. Salini Theres N Kurian.
- 2) Eco-Congress – Mr. K.G. Sajeev, Engineer, KSPCB Kottayam- 28th July 2016
- 3) Motivational Talk – By Mr. Joseph Samuel – 31st August 2016



MASS