

CRESITA

Newsletter 2016-17, Issue 2

DEPARTMENT OF CIVIL ENGINEERING
SECAB INSTITUTE OF ENGINEERING AND TECHNOLOGY,
NAURASPUR, BAGALKOT ROAD,
VIJAYAPUR - 586109

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CRESCITA

VISION

To prepare Civil Engineers who are professionally competent and socially responsible

“ Projects we have completed demonstrate what we know; future projects decide what we will learn ”

MISSION

We at Department of Civil Engineering are committed to achieve our vision by:

- Imparting academic excellence through outcome based education.
- Preparing students through skill oriented courses to excel in their profession with ethical values.
- Grooming students for higher studies and research culture.
- Strengthening relationship with stakeholders for continuous development.

From HOD's Desk

Civil Engineering at Secab I E T is an integrated department comprised of the best academics, staff and students. Not only we do top in the academics, but we deliver practical outcomes for society. I feel a great sense of both excitement and responsibility in leading this dept. My aim is to do everything I can to allow everyone here to perform at their best, engage with real issues and make a difference.

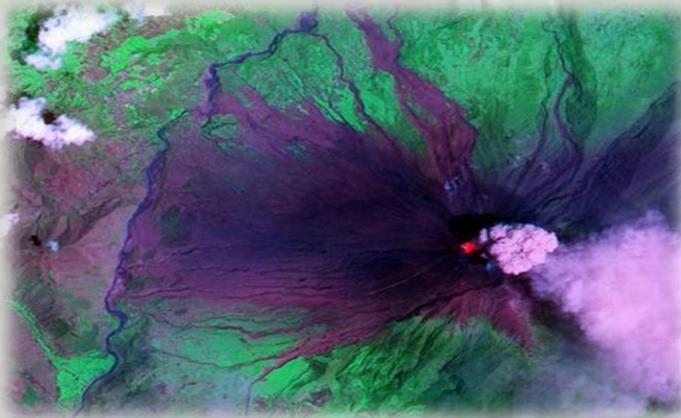
The Department of Civil Engineering shall produce excellent individuals who can build, maintain and manage social infrastructures based on relevant knowledge and technology with noble ethical principles and broad insights while recognizing the significant influence of civil engineering technology on nature and society. We are more focused on the design and creation of all kinds of structures – including buildings, roads, dams, canals, bridges and infinite other useful things – civil and structural engineering is an invaluable profession across the modern world.

Thanks to the continued development of technology and innovation in the sector, today every society is seeing an increased need for experts in these fields.

Dr. Zia Abe Din Punekar

Geo-engineering Solutions That Promise To Save Humans From Climate Change

Spray Sulfate Aerosols into the Atmosphere



Prof. P. Shabesha
Civil engineering Department
SECAB I.E.T Vijayapur

By using large balloons or aircraft to put more sulfur particles into the stratosphere, you could reduce the Earth's absorption of sunlight and prompt planetary cooling. Similar to what happens when volcanoes erupt and put ash and sulfur into the air.

Trap CO₂ in Carbon Scrubbers:

Perhaps two years from being manufactured, researchers at Columbia University say that soon they may have a working carbon scrubber which could take one ton of CO₂ out of the air per day. Small than a standard shipping container in size, and about \$200,000 in price, these carbon scrubbers trap CO₂ entering them on an ion exchange resin. The CO₂ then can be either buried or used in other ways.

Fertilizing Trees with Nitrogen:

The idea here is said easily enough: Fertilize trees with nitrogen to stimulate their ability to absorb more carbon dioxide and, by increasing their albedo, reflect more solar radiation back into space.

Aerial Reforestation:

Planting new trees in areas deforested by natural disaster or human action could increase the carbon sink potential of a given area of land, but given how much previously forested land has been cleared of trees in recent years, to complete the job quickly enough some scientists have proposed using airplanes to drop tree seedlings over wide areas of land.

Dump Limestone into the Oceans:

This one's a bit of a ringer in the group, in that rather than combatting global warming directly, plans for dumping powdered limestone in the ocean would mainly address anticipated increasing ocean acidity. Due to these changes in pH levels in the world's oceans brought about by climate change, most of the planet's coral reefs could be wiped out, with devastating consequences for marine life and the humans which depend on it.

Ocean Iron Fertilization

Essentially mimicking natural processes, ocean iron fertilization hopes to stimulate the rate of photosynthesis in phyto plankton, increasing the amount of carbon dioxide which is absorbed, and creating essentially an artificial algae bloom. The thing is that the CO₂ absorbed has to sink to sufficient depth (a couple of miles) so that it won't simply be circulated back up into the atmosphere.

With the development of environmentally conscious construction projects across the world, there are still huge demands for building materials that today's technologies have not yet satisfied. Also, preservation of the environment and conservation of the rapidly diminishing natural resources should be the essence of sustainable development. Continuous industrial development poses serious problems of construction and demolition of waste disposal.

Global production of cement is 1.6 Gt/yr, which is combined with stone aggregate to make about 5 Gt/yr of concrete. The World Steel Organization (2001) places global steel production at 0.8 Gt/yr, much of which is used in construction as structural beams and reinforcing bar (rebar). Concrete in particular lacks characteristics of carbon neutrality, while steel is nearing full recycled production; concrete remains a very carbon intensive process. Cement production involves significant amount of CO₂ emissions.



Ph.D. Registrations of 2016-17

Name	Research Guide	Research center
Mr. M. H. Kolhar	Dr. Zia Abe Deen Punekar	Research centre, Civil engineering department, SECAB I E T, Bijapur.
Mr. Sadiq Patel	Dr. Zia Abe Deen Punekar	Research centre, Civil engineering department, SECAB I E T, Bijapur.
Mr. Chetan kumar Marol	Dr. Guruprasad Hugar	Visvesvaraya Technological University, Belgaum.

Funded Projects of 2016-17

The department has always motivated the students and faculties with facilities like well equipped laboratories, active departmental library, research centre to take innovative and research oriented projects. The following projects were recognized and funded by KSCST.

Sl. No.	Title	Students	Guide	Funding agency
1	Treatment of paper and pulp industry waste water by bipolar electrode system.	Salim Inamdar, Imam hussain L. Shameed C. Mahesh Koralli	Prof. Chetan Marol	KSCST
2	Study on aerogel based light weight concrete.	Abdulkhadar.K, Kashim.M.Sanjawad, Aprina Deginal	Prof. M. H. Kolhar Prof. K. Y. Hugar	KSCST

“ There can be little doubt that in many ways the story of bridge building is the story of civilisation. By it we can readily measure an important part of a people’s progress ”

Franklin D Roosevelt, 1931

Best Publication Award

“Relative study of seismic analysis between flat slab and grid slab of rcc structures with different masonry infill in two different zones”

Authored by Mr. M. H. Kolhar, Assistant professor, Department of civil engineering, SECAB I E T, Bijapur.

Research Colloquium



Department of Civil Engineering organized a colloquium on “Nano Technology” on 10th November 2016 in the seminar hall. The guest speaker was Dr. Anand M. Hunashyal who is presently working as assistant professor at B. V. B. college of engineering Hubli. In his talk he emphasized the fundamentals of nanotechnology, Nanomaterials, Applications of Nanotechnology in Civil engineering field, ongoing researches in nanotechnology etc.

Congratulations



Head of the department, teaching & non-teaching staff congratulate Mr. Rohan Pawar (2SA12CV071) for his outstanding performance in his academics. He scored 83.60% and was the topper of the 8th semester.

Tech - Talk



Department of Civil Engineering organized a technical talk on 10th February 2017. Guest speaker was the Regional manager of UltraTech cement. In his talk he put his words on the fundamentals of cement & concrete, UltraTech manufacturing, researches in concrete technology etc. Students of the Civil department greatly benefitted by this tech-talk and interacted with this speaker from the industrial sector.

Internship

Our PG Students successfully completed their internship program at structural Design Companies in Bangalore, Hyderabad and Gulbarga.

NAME	TITLE	INTERNAL GUIDE
Santosh H.	Analysis & Design of multistoried building	Prof. Tejashree Kulkarni
Abdul Aleem Siddique	Analysis & Design of multistoried residential apartment	Prof. Tejashree Kulkarni
Md Fatir	Analysis & Design of multistoried building	Prof. M.H.Kolhar
Md Jamaluddin	Analysis & Design of multistoried building	Prof. M.H.Kolhar
Mohsina Tazeen	Analysis & Design of multistoried building	Prof. Tejashree Kulkarni
Parashuram Hadimani	Analysis & Design of foot bridge	Prof. S.S Kulkarni
Saddam Masali	Analysis & Design of multistoried building	Prof. Anjum Algur
Shameena Khannavar	Analysis & Design of multistoried building	Prof. M.H.Kolhar

CRESCITA**EXPLORIA****2K16**

Exploria 2K16 - A two day National level students technical fest

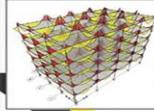
Exploria 2K16 "A national level student's technical fest" organized by civil engineering students and staff. A two day national level student's technical fest provided a platform for sharing knowledge, skills in engineering and technology. Various events were organized during these two days which included paper presentation, model making, technical quiz, town planning, and quick surveying. Participants from various engineering colleges around Karnataka and Maharashtra actively participated and won the prizes. On 28th September the inauguration function was presided by Shri A.S Patil Honorable General Secretary S.I.E.T, Bijapur, Vice Principal (Academics) Dr. Noorullah Shariff, Vice Principal (Administration) Dr. Abdul Raheem.

On 29th the valedictory function was scheduled and the Chief guest Dr P. G Rakaraddi, Associate Professor, Department of Civil, Basaveshwar Engineering College, Bagalkot and Guest of Honor Prof Irshad Punekar, Principal and Professor, Malik Sandal Institute of Art and Architecture, Bijapur addressed the function.

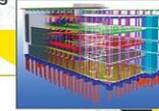


STTP

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ORGANIZED BY

CIVIL ENGINEERING DEPARTMENT27th March to 1st April

A short term training program on
**COMPUTER AIDED ANALYSIS AND
 DESIGN OF STRUCTURES**

Resource Person : Dr ANIL AGARWAL (IIT,Hyderabad)

INTERNAL TRAINERS

ARSHAD JAGIRDAR | SACHIN S KULKARNI
 SHAMEENA K | SADDAM MASALI
 SUDARSHAN KULKARNI | KUSHAPPA M K

ORGANIZING COMMITTEE

NIYAZ DAFEDAR - 9916394047
 G V NANDI - 9663939674



Department of Civil Engineering organized a STTP for the students of the department on "Computer aided analysis and Design of structures" from 27th March to 1st April 2017 in CAED hall. The resource person and chief trainer was Dr. Anil Agarwal who is the assistant professor at IIT Hyderabad. The internal trainers were Prof. A. A. Jahagirdar, Prof. S. S. Kulkarni, Prof. Shameena K., Prof. Saddam Masali, Prof. Sudarshan Kulkarni, Prof. Kushappa M. K.



"It is a great profession. There is the fascination of watching a figment of the imagination emerge through the aid of science to a plan on paper. Then it moves to realization in stone or metal or energy. Then it brings jobs and homes to men. Then it elevates the standards of living and adds to the comforts of life. That is the engineer's high privilege."

By Herbert Hoover

ZERO CARBON CITY



Mr. Sadik Mujawar
Alumni of 2011 Batch

As public awareness of the dangers of climate change and the impact of local carbon emissions on the national and international environment increases - several cities signed up to the idea of a climate change emergency in the past months - a few large city councils have now started to announce specific plans on how they plan to tackle their emissions. Among wider grandstanding by UK cities for invoking change, Glasgow city council emerged at the pole position by announcing it had its eyes on the title to become the first net-zero emission city in the UK.

The city council, collaborating with Scottish Power - the distribution network operator for central and southern Scotland and other parts - pledged to make Britain's third-biggest city the first to reach a 'net zero' carbon emissions target and beat the 2045 overall objective set out by the Scottish government on Tuesday. The announcement follows Nicola Sturgeon declaration of a "climate change emergency" at the SNP party conference recently. It means that Glasgow council would need to emit the same amount of greenhouse gases as are being absorbed through other offsetting methods, including forestry. Via the Scottish Power and Glasgow city initiative, the aim is to decarbonise in the form of greener heating and transport solutions while increasing the investments flowing into the electricity grid. More charging locations for electric cars is also on the list of measures. Susan Aitken, Glasgow City Council leader said that "from the research by the Intergovernmental Panel on Climate Change to the appeals from our classrooms, our streets and civic squares, we know that emissions reduction is the issue of our times". On Tuesday, it announced that it would bring forward the date for reaching net zero emissions to "well before" 2045 - earlier than a previous 2050 target.

Advice from the Committee on Climate Change urged Scotland to settle on a tougher target - five years ahead of the UK as a whole because of tree planting. However, environmental activists appear unimpressed by the pledge. Responding to the Scottish government, Extinction Rebellion Scotland said that an emergency requires an emergency response and that the updated targets would “not come even close”. Instead, it is calling for net-zero greenhouse gas emissions to be reached in six years time.

There are remaining issues in Glasgow's plans. More than 70 per cent of the city's residents live in flats that do not cater for charging electric vehicles, as they have no off-street parking. Scottish Power said it plans a charging system where people can rapidly charge their vehicles away from home - at work or at public charging locations. As sites for these locations face scrutiny, there is hope that the scheme could become a template for other UK cities facing the same issues.



Paper Publications

Sl. No	Name of the Teacher(s)	Title of paper	Publication citation
1	Prof. M H Kolhar	Analysis and design of high rise building by using staad.pro	IJRET, 5, 4, 2016, 235-237
2	Prof. M H Kolhar	Relative study of seismic analysis between flat slab and grid slab of RCC structures with different masonry infill in two different zones	IJRET, 5, 7, 2016
3	Prof. M H Kolhar	Seismic analysis of RC structures by using base isolation techniques	IJE, 1, 4, 2016
4	Prof. Anjum Algur	Seismic analysis of RC structures by using base isolation techniques	IJE, 1, 4, 2016
5	Prof. Amit Patted	Pavement performance and functional evaluation of selected stretches	IJSRD, 4, 2016, 1719-1721
6	Prof. Chetan Marol	Treatment of sugar industry waste water by electro coagulation process	IJSTE, 2, 2016, 425-430
7	Prof. Chetan Marol	Removal of turbidity by electro coagulation process	IJSRD, 4, 2016, 836-839
8	Prof. Chetan Marol	Experimental study on soil stabilization using admixtures	IJRST, 2, 2016, 528-535
9	Prof. Chetan Marol	Performance of flyash and lime in stabilization of black cotton soil	IJAERD, 3, 2016, 488-493
10	Prof. Chetan Marol	Treatment of sugar industry waste water by electro coagulation technique	IJAERD, 3, 2016, 619-623

Paper Publications

Sl. No	Name of the Teacher(s)	Title of paper	Publication citation
11	Prof. Chetan Marol	stabilization of black cotton soil using admixtures	IJAERD, 3, 2016, 481-487
12	Prof. Chetan Marol	Treatment of sugar industry waste water by electro coagulation technique	IJAERD, 3, 2016, 463-469
13	Prof. Sachin S Kulkarni	Design and optimization of silo	IJRASET, 4, 2016, 458-466
14	Prof. Sachin S Kulkarni	Comparative study on design of rcc and psc beam	IJARSET, 3, 2016, 2269-2276
15	Prof. Sachin R Kulkarni	Dynamic analysis of RCC chimney-A Review	IJSRD, 4, 2016, 115-121
16	Prof. Sachin R Kulkarni	A critical review on experimental studies of strength and durability properties of fiber reinforced concrete composites	IJRET, 5, 2016, 20-26
17	Prof. Sachin R Kulkarni	A critical review on modeling of industrial chimney	IJRASET, 4, 2016, 204-209
18	Prof. Sachin R Kulkarni	Analysis and design of transmission line tower	IEAE, 1, 2016, 1-10
19	Prof. Sachin R Kulkarni	Experimental investigation of strength and durability properties of steel and glass fiber reinforced concrete composites	IJARSET, 3, 2016, 2203-2210
20	Prof. Sachin R Kulkarni	Seismic analysis and design of RCC chimney	IJAERD, 3, 2016, 903-913

Industrial Visit



Pre-final year students our department visited water treatment plant kolhar & Jack Well on 02/03/2017. Department of civil engineering conducts such visits every year to introduce the students the practical work environment and the field techniques in use. This program was coordinated by Mr. S. S. Kulkarni.



PG Publications

The following papers were published by PG students of our department.

1. Shameena K ., Seismic Analysis of RC structures using Base Isolation Technique, Institute for Exploring Advances in Engineering, Second International Conference on Advances in Engineering held at 7th October 2016, Bangalore. ISBN 978-9384698-23-2, IJE Journal Volume – 1, Issue 4, October 2016.
2. Md. Fatir, Relative study of seismic analysis between flat slab & Grid floor with different Masonry infill in two different zones, International Journal of Research in Engineering and Technology (IJRET), Volume – 5, Issue - 7, July 2016.
3. Parashuram H., Static and Dynamic analysis of Transmission line tower, Institute for Exploring Advances in Engineering, Second International Conference on Advances in Engineering held at 7th October 2016, Bangalore, ISBN 978-9384698-23-2, IJE Journal, Volume – 1, Issue 2, pp no 24-34 August 2016.

Sports



Abdul Hameed, student of our department played Jump Rope representing the state at 13th Senior National Jump Rope Championship-2016 at Patliputra Sports Complex, Patna, held on 22nd -26th of Oct. 2016. He bagged the **Gold medal**.



Department of Civil Engineering has bagged Anchor Distinguished Department Award for the year 2016-17

POETRY

Remember your Creator

A poor hired labourer,
Or a wealthy contractor;
A road sweeper,
Or a civil engineer;
A biscuits hawker,
Or a business mogul;

A hungry, unkempt and unknown beggar,
Or a well fed, finely turned out and renown president;

Reaching for bright, limitless heights and prospects,
Or groping for dark un-bottomed and hopeless lows;

Remember your Creator
For eternity waits.
This life is not for ever.
Nay, it is but a pilgrimage.

Remember your Creator
In the days of your youth
Before the old and worn traveler
Lays to his rest and reward.
Good or bad, his reward is his just share

Remember your Creator.

- **Theophilus Ekpa**

PEO's**Program Educational Objectives**

PEO 1: Students will develop abilities in the application of the necessary mathematical tools, scientific basics & fundamental knowledge of Civil Engineering.

PEO 2: Students will develop ability to practice as consulting Engineer in Civil Engineering domains such as infrastructure water resource and environment.

PEO 3: Students will develop an understanding of the multidisciplinary approach to relate Engineering issues to broader social and human context.

PEO 4: Students will be engaged in lifelong learning so as to have a successful career as Civil Engineer.

PSO's**Program Specific Outcomes**

PSO 1: The graduates will have the ability to plan, analyze, design, execute and maintain cost effective civil engineering structures.

PSO 2: The graduates of civil engineering program will have the ability to conduct standardized field and laboratory tests related to civil engineering.

Contact at

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