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Indian Concrete Institute
Student's Chapter

CONCRETE NEWS

The News Bulletin from Nandha Engineering College

Department of Civil Engineering

Shaping Minds...Reshaping India...

Vol: 3 | July – Dec 2014



Dr N RENGARAJAN
Principal - NEC

The truly educated individuals are capable of doing new things: they have the ability to generate ideas & turn them into the reality. Today's values based education is an approach to prepare them for the practice at the professional level & sure the Department of Civil Engineering offers the value in all aspect. And sure this would be in high aspiration to showcase their work. I wish all of them the very best.

Welcome to the Third issue of Concrete News, which highlights the achievements of the Civil Engineering Department at Nandha Engineering College. Odd Semester 2014-15 was a semester of great achievements and carried on the momentous journey of the department's Vision. As always, this semester also saw our students bringing laurels to the institute by winning prestigious awards and prizes in various competitions. Once you read it, I'm sure you'll find them more than deserving of such an honor for the achievers.



Dr E K MOHANRAJ
Dean - Civil Engg.

Vision

- To make highly competent and technologically capable professionals by augmenting their knowledge through interaction and comps.
- To impart education to transfer the knowledge and skills for challenging application such as computer based analysis, design using relevant standards, execution and maintenance of life line Civil Engineering projects.
- To imbibe the leadership quality, professional ethics, environmental consciousness and social responsibilities to serve the society through co-curricular and extracurricular activities.

Mission

- The Civil Engineering Department is committed to rendering our students with the latest technology and modern methods to acquire knowledge and skill in all sector to make them nationally and globally competent Civil Engineering.

LOCAL VISIT

The Third Year Civil Engineering students under the ICI Student's Chapter had undergone Local Visit **Lower Bhavani Dam**, Sathyamangalam on 05th July 2014. The Bhavanisagar dam is located at 16km from Sathyamangalam. It was executed during 1948 - 1955 at a cost of Rs. 1034 Lakhs (10.50 Crores) in the first five year plan. The Lower Bhavani Dam is located in the Bhavani River just below the confluence of the river Moyar and river Bhavani. The Dam is the Largest Earthen Dam of its kind in the state measuring 8696 meters of which 464 meters is in Masonry structure in the river bed portion. The Bhavanisagar dam is the second largest reservoir in Tamil Nadu with a capacity of 929 million cubic meters.



There are 9 river sluices with spillway gates and five canal sluices. Spillway is capable of discharging 3156 cumecs of flood water. The LBP main canal is having a length of 124 miles. Bhavanisagar dam is a combination of masonry and earthen dam. The masonry dam lies in the central portion of a dam for a length of 464 m. The earth dam was constructed for a length of 8.3 km. In the masonry portion of the Bhavanisagar Dam a

drainage gallery, "V" notches are provided in the drainage gallery at various sill levels for watching masonry seepages.

GUEST LECTURE ON A BREAKING UP OF CHALLENGES IN GATE

The ICI-NEC has conducted a program about GATE Exam on the topic of "Breaking up of Challenges in GATE" by **Er.A.Saravana Kumaran, Director, GATE Forum, Coimbatore** on 16th July 2014. Students from various departments had participated in this program. In this program he explained about the necessity and importance of the GATE exam for higher studies as well as in job recruitment. He also enlightened about the major public sector and private sector companies.



His presentation also included the current pattern of GATE exam, methods of preparation and major subjects to be concentrated for each department. Students came to know about the proper way to get through in GATE. From this program students gained knowledge about higher studies in top institutions in India and abroad with stipend. He presented some videos of GATE toppers speech to ignite the inspiration among Students.

ASSOCIATION INAUGURAL FUNCTION

The inaugural function of ICI Student's chapter was held on 09th July 2014. The Chief Guest of this function was **Dr. S. Neelamani, Senior Research Scientist, Kuwait Institute for Scientific Research, Kuwait**. The office bearers were introduced by Mr. K. Prakash, HoD - Civil Engg., and the Chief Guest was honored by Dr. R. Nallusamy, Principal.



The “Concrete News” (Department News Letter) for the even semester of the last academic year was released by the Chief Guest and received by the Principal & Dr. E. K. Mohanraj, Dean - Civil Engg.,. The prizes were issued for the students who were best performers in extra & co-curricular activities. In his first session the Chief Guest shared about various Job opportunities for Civil Engineers in Gulf countries, necessitate for choosing jobs in Gulf countries, facilities offered by the companies, expenditure for a single person, defects in daily life, is it worth getting job in that country?. These are the knowledge gained by the students from his vocalizations.

In his second session, he briefly explained the importance of Ocean Engineering. In that field he



enlightens the factors to be considered in construction, Hype of tsunami, cyclone, global warming and coastal erosion, dredging, ocean outfall, groins to prevention on bank. In addition to this he elucidated the premise of Port and harbor development regards the break water structures and various methods of construction, Desalination, exploration and exploitation of subsea, oil and natural gas, sediment transport system, innovative new ideas for economic structures, marine pollution, fellowship for education in abroad, best colleges in the world for ocean engineering. As a final moment, he interacted with students on their suspicion about job opportunities and Modern Techniques in Ocean Engineering. Finally students were much delighted to thank Dr. S. Neelamani for his enthusiastic speech.

LOCAL VISIT

Second Year Civil Engineering students of Nandha Engineering College under the ICI Student's Chapter (ICI-NEC) had undergone Local Visit to “Isha Yoga Centre & Fine Constructions” at **Coimbatore** on 23rd July 2014. There was a Dome Structure that we could not see in the nearby

locality. Garments hostel building construction was going near Avinashi. It was a G+2 building with 78,000 Sq.ft. Our second year students were new to the department, it was a chance to see the different construction methods and techniques (like dome roof). The site gave some idea to the students to do project with different roof elements and hostel building site gave experience on multi-storied building. Finally the students got some idea about the advantages of dome structured roof and hostel building construction. The visit gave knowledge about Yoga, how to do the Yoga and its importance with our life. The students were much delighted to thank Isha Yoga Centre and Fine Constructions for giving the opportunity to visit the Centre.

LOCAL VISIT

Second Year Civil Engineering students had undergone Local Visit to **Build Expo CONSTRO MEGA 2014 at Tirupur** on 25th July 2014. The Expo was held from July 25th - 28th at Vidhya Karthik Kalyana Mandapam. New construction materials like different types of steel doors, fly ash bricks, various types of tiles, paints, windows, reinforcement bars, staircase models, bricks, clay jolly & wire cut bricks, lights, roofing sheets, ventilators, solar water heater, solar indoor & outdoor lighting systems, modern & readymade kitchen, sanitary fittings etc. have been displayed in the Expo. As the students are new to this industry, the Expo was very useful and gave ideas about innovative construction materials.



The expo gave ideas about the how the materials are being made? and its properties and applications. The radical water proofing techniques for buildings and roofs, readymade stirrups were also displayed by the companies.

INTRA DEPARTMENT MEET

Interdepartmental meet was conducted on behalf of the Civil Engineering Association and ICI Students Chapter on 26th July 2014 various events like



CADD contest, Quiz, Brick Modelling & Treasure Hunt were conducted to the students which were very useful to develop and expose the talents. The guest distributed certificates and prizes to winners of various competitions.

WORKSHOP ON ADVANCED SURVEYING TECHNOLOGIES USING TOTAL STATION

ICI-NEC had conducted a workshop on advanced surveying technologies using total station, DGPS and LiDAR on 05th August 2014. The workshop was well-informed by the chief guest **Er. S. Hemanth Reddy, Madhusiri Group of Company, Bangalore**. The main premise of the workshop was Digital surveying. The enclosed topics are total surveying, GPS (Global Positioning System), LiDAR (Light Detection and Ranging). The methods of surveying followed from ancient to till dates, drawings, instruments and their applications were discussed. In total station components; applications; benefits; field to finish were discussed. In global positioning system, the segments; satellite constellation; online principle were discussed. In LiDAR surveying components; outputs using Auto CADD; benefits; merits and application were discussed. The videos of total station in practice were played to gain the knowledge about the advanced surveying.



It's compulsory for all civil engineering students or practicing engineers to have knowledge of latest

surveying technologies to implement the project successfully. This workshop gives blossoming ideas about advanced technologies in surveying.

INDUSTRIAL SEMINAR

The ICI Student's Chapter - Nandha Engineering College has conducted an Industrial Seminar on 07.08.2014. In this seminar **Mr. Rahul Raj, IIT-K Alumni, Head, Civil Simplified, Skyfi Labs, Hyderabad** gave a seminar on the topic of "Seismic Design of Buildings". He explicated the structural dynamics and seismic methods involved



in the construction of buildings in earthquake prone areas. He also inculcated the students about Modeling and Design issues arising during practical sessions and also he conferred live demonstrations and examples. On the other hand, he enlightened about the Skyfi Educational Labs Pvt. Ltd which is an initiative of graduates from IIT Kanpur. He also portrayed the students about the unique features of the Skyfi Labs that they had been awarded the second best business venture from IIT Kanpur etc.

LOCAL VISIT

A final year civil engineering student has arranged Local Visit to **Upper Aliyar Dam, Pollachi** on 8th August 2014. The Aliyar Dam is located 28 kms



from Pollachi. The Aliyar Dam was constructed during 1959 - 1969 across the Aliyar River, mainly for irrigation purposes. The project was commissioned in Sep 2002 to generate Hydro Electric Power. Aliyar Lake receives water from Upper Aliyar Reservoir through the hydroelectric power station in Navamali and the Parambikulam reservoir thro'



a contour canal. Aliyar dam, built as a part of Parambikulam Aliyar Project (PAP), retains a large reservoir. The dam is around 2 kms (1.2 miles) in length. The maximum depth of the dam is 36.5 m (120ft). The lowest level outlet of the reservoir is 930 feet (280 m) above Mean Sea Level (MSL) and the canal intake is 980 feet (300 m) above

MSL. The spillway is 1,040 feet (320 m) above MSL and the FRL (Full Reservoir Level) is 1,050 feet (322 m) above MSL. The volume of water in FRL is 3.864 TMC. It has a total surface area of 6.48 sq.m. The students were much enchanted and show gratitude to PWD Tamilnadu and Er. R. Illangovan, Superintending Engineer, PWD.

SEMINAR ON NDT TECHNIQUES

The ICI-NEC has conducted an Academic Seminar on 09th August 2014. In this seminar **Dr. S. K. Sekar, Dean, SMBS, VIT University, Vellore** gave a seminar on the topics of "Assessment of Structures using NDT Techniques" & "Innovative Materials in Construction Industry".



He elucidated the testing of the concrete structures using Non-Destructive Techniques (NDT) and various equipments used for NDT and gave practical exposure that how to use the rebound hammer. He also inculcated the students to develop their technical knowledge about the various types of problems occurred in the concrete structures and remedies. And also he described the students about the waste materials from the various industries and alternative materials used in concrete and their

advantages. From this seminar students could clarify their doubts in mix ratio of fly ash bricks, application of NDT in load bearing structures etc.



No doubt the seminar seems to be an interesting day with number of ideas incorporated into us to reshape us a better engineer to come up with innovation.

LOCAL VISIT

Final Year Civil Engineering students arranged Local Visit to SSM Engineering College, Erode on 12th Aug 2014.



Students had a good exposure in civil buildings by seeing the models which are exhibited at this college. They had the models of modern bridges and green homes and also the usage of elevators at hilly temples etc. They also had the models of Indian Space Research Organization's Satellites and their civil oriented constructions.

LOCAL VISIT

Second Year students had undergone Local Visit to **JM Space Frame Roof and PEB Structures, Coimbatore** along one faculty member on 12th August 2014. The Structure is located at 16 kms from Coimbatore City. The JM Constructions doing works like Space frame roofing, Pre-Engineered Buildings (PEB), Pre-Fabricated Structures and Skylights. They had constructed a Space frame for auditorium with a 3D Tubular Truss with Ball Joints that has size of 80' x 180' (without interior supports). These types of frames are considered to be economic by providing exceptional flexibility of usage within the structure by eliminating interior columns. They also possess a versatility of shape and form. It can withstand various load cases like Wind Load, Dead Load, Live Load and Thermal Effects. They constructed those frames in according to Indian Standards. The advantages of using Ball Jointed Space frame roof are Hi-tech look and latest technology, rust free powder coated structures, superior in aesthetics, fully portable and reusable. They also provided



Atrium Roofing and Canopy in a building at Coimbatore. The PEB features a structural steel frame work of primary and secondary members to which cladding and roofing components are attached. The PEB structures are considered to be speedy and resistant to harsh weather conditions. It can be applicable to industrial, institutional, commercial and recreational structures. Students were acquired knowledge about the modern economical constructions.

INDUSTRIAL VISIT

The ICI-NEC arranged Industrial Visit for the Second Year Students to **Puravankara Pvt. Ltd, Bangalore** on 14th August 2014. Through this visit students gained knowledge about the basic construction principles, techniques and new construction technologies. The total area of the construction site is around 12 Lakhs Sq.ft. The estimated project cost for the construction is



around 350 Crores. Totally there are 7 towers, in that 2 towers are 20 floors with “HELIPAD” at the top, 2 towers are 17 floors and remaining 3 towers with 15 floors. Each flat consists of 3BHK facilities and each floor is connected by the provision of lift as well as staircase. The type of

foundation used in the construction site is raft foundation. The windows are fully made of aluminium with glazed shutters. The students got very good exposure to do construction with new construction techniques for major projects. Totally three cranes are used for transporting the construction materials.

INDUSTRIAL VISIT

Third year students Civil Engineering students has arranged Industrial Visit to **Balaji Constructions, Bangalore** on 23rd Aug 2014. The construction site is located at 20km outer from Bangalore city. The project was started on 23rd Sep 2013 mainly for residential (160 Apartment with 8 wing) purpose.



The total cost of the project is 168 Crores. The project is expected to complete on July 2015. The total built-up area of this project is around 3 acres and above. This project consists of apartments (G+4). It also consists of car parking area with the capacity of 220 cars. The students were gained practical knowledge about the reinforcement with element joints for different load conditions. They were also viewed the huge bridges & flyovers

during the travel. They absorbed the concepts very enthusiastically. Er.Somasundaram from Balaji Constructions was very eagerly explained about their project to our students.



LOCAL VISIT

Confederation of Real Estate Developers Association of India (CREDAI), has organized Three Days **Fairpro Exhibition** on “**Property Fair**” from 22nd - 24th August 2014. Final year students & Second year students along with 4 Staff Members had visited the exhibition on 23rd August 2014. Many property developers from Coimbatore and other cities participated and displayed their



projects. Fairpro acts as a platform for Real Estate Developers to showcase their latest products not only from Coimbatore but also from Tirupur, Erode, Salem, Madurai, Trichy, Chennai, Bangalore and Kerala. It helps the students to gain

knowledge about the planning of building and the current market prices of various plots situated in various cities. Students also gained knowledge about the client expectations for their own houses. Next to CODISSIA, the students visited the *Isha Yoga Centre* located at the foothills of the Vellingiri Mountain. It consists of center house which is an architecturally distinctive Spanda Hall, garden of around 64,000 Sq.ft and meditation / yoga centre. The Yoga centre contains *Dhyanalinga*, a unique and powerful energy-form sitting under a pillar less 2.5 Lakhs brick dome structure well known as *Theerthakund*, a sacred underground water body.

GUEST LECTURE ON ENGINEERING MECHANICS

The ICI-NEC has organized a Guest Lecture on **Engineering Mechanics** on 23th August 2014. **Dr. R. Kumaravel, HoD**, Vellalar College of Engg. & Tech., Erode offered class for 1st Year Civil Engineering students. He interacts with the students & he gave a lectured about Engineering Mechanics for End Semester Exam. He gave the concept of Engineering Mechanics and solving the



Problems, he also discussed about important problems which has been already given in previous year end semester question papers. He also thought the students an easy alternative method for solving the problems.

MEMORANDUM OF UNDERSTANDING

The Department of Civil Engineering has **MoU with FACEAT** on 25th August 2014. In this program MoU was signed with Federation of All Civil Engineers Association student chapter TN & Pondicherry (FACEAT).



The Engineers from FACEAT who gave their speech in the program are *Er. R. Mohanraj, Er. R. Sivalingam, Er. RVL. Ravichandran, Er. S. Baskar Babu, Er. M. S. Rajamanickam and Er. N. Gugan*. Er. R. Mohanraj, President, FACEAT members welfare trust spoke about the prides of Civil Engineering.



He explained the students how to work in the site and various opportunities for civil engineers in the world. He concluded his speech saying that the students utilize each and every opportunities in the field of civil engineering. Er. N. Gugan, President, EDCEA spoke about the problems to be faced in the field of civil engineering. He elucidated the students how to maintain the quality of the engineer and the punctuality to become a good civil engineer.



Er.R.Sivalingam, Vice President - FACEAT, he advised the students to gain more practical knowledge than the theoretical knowledge during studies and explained current trends in Civil Engg. field, his valuable speech was used to motivate the upcoming Engineers to sign in this field. Er. S. Baskar Babu, Regional Chairman, FACEAT advised the students to gain more theoretical and



practical knowledge in college and field as well as academic activities such as paper presentations, innovative projects etc. He also led the students to behave with discipline. Er. RVL. Ravichandran, Chairman, Students Chapter, FACEAT explained briefly the students about the FACEAT and further activities to be done by FACEAT. He also listed the benefits to the students such as In-plant trainings, placements etc., by FACEAT. Er.M.S.Rajamanickam, Asst. President, FACEAT



motivated the students to gain more practical knowledge by going Industrial Visits, In-plant trainings etc., He noticed that the students punctuality is an important factor in our every moment.

TRAINING ON “CORPORATE EXPOSURE”

The ICI Student’s Chapter and Department of Civil Engineering has arranged training on Corporate Exposure on 01st Sep 2014 by **Ms. J. P. Sindhu, Management Trainer, Karaikudi**. She told about the scope of Civil Engineering in future world. She also describes the importance of Management sector in Constructions. She presented the planning

procedure and also gave few notes on Modern Construction Management.



In between presentations she motivated the students by presenting some admiring videos to develop our self-confidence. She describes the importance of job opportunities in abroad for construction management. The students were much enchanted and show gratitude to Ms. J. P. Sindhu for giving this valuable information.

GUEST LECTURE ON CAUCUS - GATE ASPIRANT TO GATE TOPPER

The ICI-NEC arranged Caucus on Gate aspirant to Gate topper and coaching for job seekers by **Mr. K. Jayachandran, Mr. A. Bahurudeen, Mr. V. G. Ram, Doctoral Research Scholars, BT&CM Division, Civil Engineering Department, IIT-M, Chennai** on 06th Sep 2014. They explained the importance of GATE Exam for doing Higher Studies in Abroad. They also describes about the value of GATE score for joining in Public Sector Companies. They had displayed the maximum marks allocated in various topics on Civil Engineering.



Their group were ready to offer the gate coaching in IIT-M, Chennai. They were also conducting many online tests for GATE aspirants to their benefits. The students were much enchanted and show gratitude to K.Jayachandran, V.G.Ram & A.Bahurudeen for giving this valuable information.

GUEST LECTURE ON JOB AND CAREER OPENINGS IN ABROAD

The ICI-NEC has arranged Elucidation on “Job and Career Openings in Abroad” on 09th Sep 2014 by **Mr. Sayedosama, HR Consultant, WISA International Consulting, Mumbai.** He gave



detailed explanation on doing higher studies in abroad especially in Canada & Russia. He also briefly notified the procedure of getting citizenship

in those countries. He gave his ideas about the income by doing part time jobs while studying. He compared the value of studying higher studies in our country with other countries. At last he clarified the student's doubts regarding higher studies in abroad. The students were much enchanted and show gratitude to Mr. Sayedosama for giving this valuable information.

ENGINEER'S DAY CELEBRATION 2014

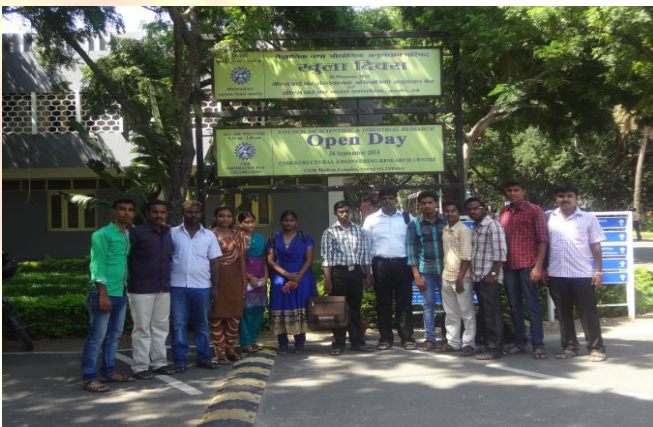
The ICI-NEC celebrated Engineer's Day by conducting Mr/Ms Engineer contest among various departments in the college campus on 15th Sep 2014. In this function Mr.P.Shankar, Asst. Professor has inaugurated the function by giving welcome address to the participants and gave a speech about *Sir. M. Visveswaraya* whose birthday is celebrated as Engineer's Day. On that day various events were conducted and many students were participated in the preliminary round next to that Apps Quiz was conducted to develop the aptitude skill among students. Marketing round was conducted to develop the innovative thinking among students and then it is followed by speech on a topic and then HR round for making the students fit for interview. Finally Ms.Aishwarya, Final Year, Department of EEE has selected as *Ms. Engineer 2014*. The students were much enchanted and show gratitude to our Civil Engineering Department for arranging this function.

VISIT TO CSIR-SERC LAB, CHENNAI

The ICI Student's Chapter has its most scheduled visit to **CSIR - SERC, Chennai** on 26th September 2014. The CSIR-SERC is the Nation's leading center for Research & Development in the field of Structural Engineering. It was the open day in CSIR-SERC and a team of PG students and 2 faculties reached Testing Lab followed by Seismic testing & Research Lab, Materials Testing Lab and in the morning. The excited visit starts with a



group led by a guide to all its leading laboratories. “Every failure has its own definition based on its pattern or mode” started from Fatigue & Fracture



Structural Health Monitoring Lab and so on. In the main, the Structural Engineers clearly up-dates their knowledge with all completed and on-going researches.

GUEST LECTURE ON LIVELIHOOD IN ABROAD

The ICI-NEC organized a lecture on “**Livelihood in Abroad**” in support with Europe Study Centre (P) LTD on 09th October 2014. **Ms. Mary Jency, Branch Head, Europe Study Centre (P) Ltd** offered information about the Higher Studies in particularly Management courses for Engg. students in European countries. Ms. Mary Jency interacted with the students & she said about various Engineering courses available for all streams of Engineering students that they may study after completing their current degree so that they can able to survive in this competitive world. In addition she explained the difference between studying Master Degree in India and various European countries. Then she explained the comparison cost for studying master degrees in various parts of European United countries.



And she crafted clear ideas about the internships offered for the students by the foreign universities and also said about the part time jobs by which students can earn while studying. She gives details to the students about getting visa for those countries. From this lecture student's able to get

good ideas about studying Master Degree in European countries and this lecture helps them planning their carrier in a better style.

ACADEMIC SEMINAR ON DESIGN OF RC ELEMENTS

The ICI-NEC organized training on “Design of RC Elements” by **Dr. G. S. Thirugnanam, HoD, Department of Civil Engineering, Institute of Road and Transport Technology (IRTT), Erode** on 18th October 2014 for Third Year students. In this training he explicate about the trends in Design of Reinforcement Elements.

He compares the Method of Design of Concrete Structures like Ultimate Load, Limit State Design and Working Stress method. Then he gave detail on various code books and specifications available in RC elements like IS 456:2000, SP-16, etc.



He taught about analysis and design of one way slab and two way rectangular slab subjected to Uniformly Distributed Load for boundary conditions and corner effects. The next interesting topic he moves to types of column and design of short column for axial, uniaxial and biaxial bending actions. In addition he explains about how

a design of wall footing, axially and eccentrically loaded to rectangular footing and combined footing for two columns. Finally he concluded standard method of detailing reinforced concrete beams, slabs and columns.

SURVEY CAMP

The ICI-NEC organized a **Survey Camp** with a group of 67 students guided by four faculties at Pichandampalayam, Erode from 16th to 20th Dec 2014 (06 days). The day one started from the Pichandampalayam and each student had learned the general introduction about preliminary setups of surveying instruments and its handling techniques. Then from the day two, the students had started doing experiments such as Trilateration, Triangulation. On third day experiments were done using Total Station equipment to measure Square Contouring, Radial Contouring and Setting Out of field, providing bend, open traversing and close traversing.



In addition the students also had the chance to determine the azimuth of the sun and star. From this experiment students had learned the concepts of astronomical surveying. On the end of survey camp students had experienced the reality of

surveying in the field and practiced well to do surveying in the field. Students were very much benefited and came to know about the latest technological equipment's in the survey field. The students in the camp thanked the authorities of Pichandampalayam and faculties for their guidance in the field who have provided them an opportunity to undergo survey training.

R&D PROPOSALS

- Project Proposal submitted in the title of "Conficate CO₂ by Escalating Bacterial Concrete in Construction Industries" under INSA Young Scientist Model Awardee, New Delhi. (Rs.7,90,000/-) by Mr.K.Prakash on 31st July 2014.
- Submitted a Seminar Proposal submitted in the title of Design of Steel Structures in FDP Winter Vacation 2014, Centre for Faculty Development, Anna University, Chennai by Dr.E.K.Mohanraj & Mr.P.Shankar on 11th October 2014.
- 2 Nos. of UG Students & 2 Nos. of PG Students submitted for TNSCST Project Proposal at Chennai on 28th August 2014.

PAPER PUBLISHED / PRESENTED

- S. Sarankokila has published a paper on "Experimental Investigation of Egg Shell Powder as Partial Replacement with Cement in Concrete" in the International Journal of Engg. Trends and Technology on August 2014.
- K.C.Denesh has published a paper on "Experimental Studies on Fiber Reinforced

Self Compacting Concrete" in the International Journal of Engineering Trends and Technology, on September 2014.

- N. Saravanababu has presented a Paper in the International Conference on 'Sustainable Civil Infrastructure' conducted by IIT-Hyderabad held at HITEX Exhibition Center, Hyderabad on October 2014.
- M. K. Kamalakkannan & K. Prakash has published a paper on "Experimental Study on Structural Behaviour of Bacterial Concrete in Framed Structure" in the International Journal of Engineering Research & Technology, November 2014.
- M. Gunavel & S. Sarankokila has presented a paper namely "Evaluation of Fibre Reinforced Concrete Beams using Hybrid Fibres" in the National Conference on "Emerging Vistas of Engineering and Management" by Viswajyothi College of Engineering & Technology, Kerala on November 2014.
- M. K. Kamalakannan & K. Prakash has presented a paper namely "Experimental Study on Structural Behaviour of Bacterial Concrete in Framed Structure" in the National Conference on "Emerging Vistas of Engineering and Management" by Viswajyothi College of Engineering & Technology, Kerala on November 2014.
- V. Jeevanantham & N. Naveenraj has presented a paper namely "Structural Behaviour of RCC Beams using Flyash

Aggregate” in the National Conference on “Emerging Vistas of Engineering and Management” by Viswajyothi College of Engineering & Technology, Kerala on November 2014.

- M. Dhaarani & K. Prakash has presented a paper namely “Durability Study on HVFA based Bacterial Concrete” in the National Conference on “Emerging Vistas of Engineering and Management” by Viswajyothi College of Engineering & Technology, Kerala on November 2014.
- M. Dhaarani, Second Year, ME Structural Engineering student has published an article namely Laminate Flooring in Builders Voice (Monthly Magazine) on Nov '2014.
- M.Dhaarani & K.Prakash has published a paper on “Durability Study on HVFA based Bacterial Concrete - A Literature Study” in the International Journal of Structural and Civil Engineering Research on November 2014.
- P.Karthi & S.Sankar has published a paper on “Experimental Study on High Strength Self Compacting Concrete Beams with Steel Fibre” in the International Journal of Science and Engineering Research on November 2014.
- M.Preethi & S.Janani has published a paper on “Structural Behaviour of Cold Formed Steel by using ANSYS” in the International Journal of Science and Engineering Research on November 2014.
- J.Manojbabu & K.Shyamkumar has published a paper on “Development of Application for Design of Structural Element Using Visual Basic Coding” in the International Journal of Science and Engineering Research on November 2014.
- M.Ragavan & S.Janani has published a paper on “Experimental Behaviour of Cold Formed Steel Sections” in the International Journal of Science and Engineering Research on November 2014.
- K.P.Mahesh, N.R.Monika & Dr.E.K.Mohanraj has published a paper on “Strengthening of Reinforced Concrete Beams using GFRP Wraps” in the International Journal of Science and Engineering Research on November 2014.
- M.Parvinbarkath & P.Shankar has published a paper on “Axial Behaviour of concrete Filled Steel Tubular Beam-Column Joint” in the International Journal of Structural and Civil Engineering Research on November 2014.
- S.Santhoshkumar & K.J.Pradeepkumar has published a paper on “Experimental Study on Flexural Behaviour of ECC & Concrete Composite Reinforced Beam” in the International Journal of Structural and Civil Engineering Research on November 2014.
- G. Gobinath & K.Selvi has published a paper on “An Experimental Study on Behaviour of RC Column with PVC Cover” in the International Journal of Science and Engineering Research on November 2014.

- R. Anand & A. Abudul Hameed has published a paper on “Behaviour of the Beam Using GGBS as a Partial Replacement of the Aggregate” in the International Journal of Science and Engineering Research on November 2014.
- K.L.Ravisankar & N.Saravanababu has presented a paper namely “Detailed Study on Critical Delay Factors Affecting the Construction Industry” in the International Conference on “Advances in Sustainable Materials and Innovative Technologies in Civil Engineering” by Nehru Institute of Technology, Coimbatore on November 2014.
- S.Gomathi & K.Selvi has published a paper on “Analysis of Exterior Reinforced Concrete Beam Column Joint” in the International Journal of Science and Engineering Research on November 2014.
- A.Karthik & S.Sankar has published a paper on “Seismic Behaviour of concrete Filled Steel Tubular (CFST) Beam Column Joints” in the International Journal of Structural and Civil Engineering Research on December 2014.
- K. Sathamushane & K. J. Predeep Kumar has published a paper on “Investigation of No-Fines Concrete in Building Block” in the International Journal of Structural and Civil Engineering Research on November 2014.
- P.Arjun & K.Shyamkumar has published a paper on “Effect of Durability of High Performance Concrete Using Flyash as Mineral

Admixture” in the International Journal of Structural and Civil Engineering Research on November 2014.

GUEST LECTURE DELIVERED

- **Dr.E.K.Mohanraj** was delivered a **Special Lecture** on Organising Workshops, Conferences and other department events @ FOP conducted by CLD, NEC, Erode on 02nd July 2014.
- **Dr.E.K.Mohanraj** has delivered a **Guest Lecture** on “Challenges of Civil Engineers” during ICI Students Chapter Inauguration at Nandha College of Technology, Erode on 22nd July 2014.
- **Dr.E.K.Mohanraj** has delivered a **Special Lecture** on “Funding for Research” & “How to do a Research?” @ CLD, NEC, Erode on 31st July 2014.
- **Dr.E.K.Mohanraj** delivered a **Guest Lecture** on “Mechanics of Solids” at Sasurie College of Engg., Vijayamangalam on 13th October 2014.

SKILL UPGRADATION-FACULTY MEMBERS

- S.Sarankokila, N.R.Monika, K.L.Ravisankar, V.Naveenraj, K.C.Denesh, A.Abudlhameed attended ‘Faculty Orientation Programme’ organised by CLD, Nandha Engineering College, Erode on 02nd July 2014.
- V. Naveenraj were attended Workshop on ‘Utilization of Mineral Admixtures in Sustainable Concrete’ at Coimbatore Institute of Technology, Coimbatore on 18th July 2014.

- A. Abdulhameed & P.Shankar attended program on “Hands on Training on MOODE at Dept. of IT, NEC, Erode on 19th July 2014.
- V.Naveenraj, S.Kalpana, K.J. Pradeep Kumar along with 12 Nos. of Second Year Students attended Workshop on ‘Advanced Surveying Techniques’ at Adithya Institute of Technology, Coimbatore on 19th July 2014.
- N.Saravanababu, K.L. Ravisankar, S.Janani & 8 Nos. of Final Year and Third Year Students attended Workshop on ‘Application of Effective Technologies for Green Construction and Management’ at Coimbatore Institute of Technology, Coimbatore 22nd July 2014.
- P.Shankar, K.J.Pradeep Kumar & N.Saravanababu along with 12 Nos. of Third Year and 3 Nos. of Final Year Students attended Workshop on “Precast Concrete Technology - An Emerging Trend in India” at Vellore Institute of Technology, Chennai on 25th July 2014.
- K.C.Denesh & K.L.Ravisankar attended the Inaugural function & Student Chapter of “Federation of All Civil Engineers Association (FACEAT)” at Erode Sengunthar Engineering College, Thudupathi on 31st July 2014.
- S.Janani along with 4 Nos. of Third Year Students & 9 Nos. of Second Year Students attended National Workshop on ‘Advancement, Challenges and Opportunities in Concrete Technology’ at Hindustan College of Engineering and Technology, Coimbatore on 20th August 2014.
- Dr.E.K.Mohanraj & P.Shankar attended One Day National Seminar on ‘Precast Concrete Technology-Challenges, Methods & Practices’ conducted by Indian Concrete Institute (ICI), Mumbai Centre, Mumbai on 27th Sep 2014.
- Dr.E.K.Mohanraj was attended Technical Lecture on “Enhancing Excellence in Concrete Construction” by K.Jayasankar, Assistant Vice President, (Technical Services), UltraTech Cement, Chennai @ Hotel Atrium, Erode on 13th October 2014.
- S.Sarankokila, N.R.Monika, K.P.Saranya & K.L.Ravisankar attended programme on “Google Education Services” at Dept. of IT, NEC on 26th December 2014.

SKILL UPGRADATION - STUDENTS

- 4 Nos. of second year students nomination registered in “ICTACT YOUTH TALK” on 21st July 2014.
- 5 Nos. of third year students attended Workshop on ‘Disaster through Building Collapse’ at Karunya University, Coimbatore on 25th July 2014.
- V. Rajkumar, Final Year has participated as an Effective Volunteer in Erode Book Festival - 2014 held on 01st to 12th August 2014.
- 5 Nos. of PG students attended Training on Survey Up-dation (Be Roman while you are in Rome) by Mr.A.Anandhan, Lawrence & Mayo

(P) Ltd, Chennai at NEC, Erode on 14th August 2014.

- 10 Nos. of second year students attended Workshop on “Renewable Energy Sources: Indian Scenario (NWRES-14)” at KSR College of Tech. Tiruchengode on 22nd August 2014.
- 6 Nos. of UG students selected for Project work for the Even Semester @ CSIR - SERC Laboratory, Chennai from Dec 2014 to March 2015.
- One Third Year Student and 3 Nos. of Final Year Students are participated in second round for ‘CII Young Indians’ and H. S. Guruprasad, Third Year Student got ‘Best Speaker Yi SPEAKOUT CHALLENGE-2014’ at Vellalar College of Engineering & Technology, Thindal on 28th August 2014.
- 3 Nos. of Final Year students went to In-plant Training in ‘URC Constructions Pvt. Ltd’, Erode on every week of Saturday & Sunday in Sep ‘2014.
- V.Rajkumar & V. Thiyaneswaran, Final Year students attended one day training at ‘AGNI Steels Private Limited’, Ingur on 5th Sep 2014.
- 4 Nos. of Final Year students & 2 Nos. of PG Structural Engineering students attended Conference on ‘Modern Trends in Construction Industry’ at Hotel Club Melange, Erode on 22nd September 2014.
- V.Thiyaneswaran UG Student & M.Dhaarani PG student selected for Project work for the

Even Semester @ CSIR - SERC Laboratory, Chennai from Dec 2014 to March 2015.

- D.Karthi, S.Veerakumar & P.Krishnakumar Third year students presented his model on ERO INTECH, EDDISIA on 19th Nov 2014.
- 3 Nos. of third year students were participated on ‘Project Design Contest’ at Bannari Amman Institute of Technology, Sathyamangalam on 8th to 10th October 2014.
- 4 Nos. of Second Year students were attended workshop on ‘GEODAISE’ at Bannari Amman Institute of Technology, Sathyamangalam 8th to 10th October 2014.
- 5 Nos. of Second Year students were attended Workshop on ‘Cement & Concrete New Trends & Industrial Applications’ at PSG College of Technology, Coimbatore 11th October 2014.
- One Week Survey Camp has organized for third year students @ NEC Ground using Total Station from 15th to 20th December 2014.
- One Week Survey Camp has organized for second year ‘A’ section students from 18th to 24th December 2014 and ‘B’ section students from 29th December 2014 to 03rd January 2015 @ NEC Ground.
- 133 Nos. of second year students has gone for In-Plant Training @ various Construction Companies in and around Tamil Nadu from 18th December 2014 to 03rd January 2015.

AWARDS & ACHIVEMENTS

- Department of Civil Engineering, NEC has received **ICI (TNCC) - UltraTech Award for Outstanding Student Chapter of Tamil Nadu 2014** on 18th September 2014.
- Department of Civil Engineering, NEC has received the **ICI Best Students Chapter Award for the year 2014** in 22nd Annual Awards 2014 @ Mumbai sponsored by ICI - BASF India Ltd on 26th September 2014.
- K.Prakash was applied for “Biotechnology Social Development Awards - 2014” at New Delhi on 21st July 2014.
- Dr.E.K.Mohanraj has been shortlisted for **Shri. P. K. Das Memorial Best Faculty Award** by Nehru Group of Institutions, Coimbatore on 07th December 2014.
- H.S.Guruprasad, Third Year Student got ‘FIRST PRIZE’ in “One Minute Tech Show” @ Inter Departmental Competition conducted by Dept. of CSE, NEC on 24th July 2014.
- S. Vignesh Bharathi, Second Year Student has been shortlisted in the first round “ICTACT Youth Talk 2014” at NEC on 01st August 2014.
- 4 Nos. should be shortlisted out of 31 Nos participated in first round for ‘CII Young Indians’ at NEC on 05th August 2014.
- M. Sadham Hussian, Third Year Student got ‘FIRST PRIZE’ and K.P.Vijayakumar & N.Srinivasan, Final Year Students got ‘THIRD PRIZE’ in “Pick the Picture” and also Presented the Paper @ Inter Departmental competition conducted by Dept. of IT, NEC on 28th August 2014.
- CADD Centre Training Services conducted a preliminary test for all Civil Engineering students at NEC on 3rd & 4th September 2014 from these 04 students was shortlisted for second round.
- S. V. Arunprasanth, Final Year placed in ‘Tech Mahindra’, Chennai thro’ campus interview on 05th September 2014.
- B.Jayasankar & S.Dharanidharan got ‘FIRST PRIZE’, D.Gowtham & B.Gokul got ‘SECOND PRIZE’ in “QUIZ” and R.Vikashini, Second Year student got ‘SECOND PRIZE’ in “E-TALK” at Inter Departmental Competition conducted by Dept. of EEE, NEC on 23rd September 2014.
- S.Jayaseelan & N.Mohan Balaji got ‘FIRST PRIZE’ in “E-LEAQUE”, K.Gowsika got ‘THIRD PRIZE’ in “AVATHAR” and S.Vignesh Bharathi, Second Year student got ‘SECOND PRIZE’ in “CORPORATE (GD)” and “THIRD PRIZE” in “PAPER PRESENTATION” at Inter Departmental Competition conducted by Dept. of ECE, NEC on 24th September 2014.
- C.Ashok & P.Kalaiganam, Final Year Students got ‘SECOND PRIZE’ in “Poster Presentation” at Sri Subramanya College of Engg. & Tech., Palani on 26th September 2014.
- A.Nivedha & S.Navaneetha got ‘THIRD PRIZE’ in “Paper Presentation” at PPG

Institute of Technology, Coimbatore on 26th September 2014.

- J.Jayashree, J.Kalaiselvinivedha & D.Shanthini got 'THIRD PRIZE' in "Technical Event" at Sona College of Technology, Salem on 26th September 2014.
- R.Vikashini, Second Year student got 'FIRST PRIZE' in "PAPER PRESENTATION" and "THIRD PRIZE" in "JAM (JUST A MINUTE)" at Angel College of Engineering and Technology, Tirupur on 1st October 2014.
- V.Rajkumar, Final Year student has participated in the "Joy of Giving Week Celebration-2014" and receiving honour from Rotary Club - CBE Central and functioning as an *Effective Volunteer* in Makkal Sinthanai Peravai on 05th October 2014.
- V.Rajasekar, Final Year student got "FIRST PRIZE" in "Anna University Zone - XII Inter Collegiate Athletic Meet" at Kongu Engineering College, Perundurai on 9th & 10th October 2014.
- Anna University has declared a University Ranks for the Batch 2010-2014 - M.Nivetha has got 12th Rank, V.Arivu Thiravida Selvan has got 33rd Rank & V.Akash has got 41st Rank.
- A. Geetha, Second Year student got "Runner" in "Anna University Sports Meet 2014 - Inter Zone Football Match" at Kongu Engineering College, Perundurai on 26th October 2014.

ALUMNI INTERACTION

- V.Akash (2010-14), Site Engineer cum Quantity surveyor, Cochin Engg & Consultancy Services Pvt. Ltd, Cochin on 11th July 2014.
- K.Kaleeswaran (2009-13), Site Engineer PRC Construction, Karaikudai on 15th July 2014.
- M. Tamil Chandran (2010-14), Site Engineer, Teemage Precast In, Kangeyam on 21st July 2014.
- T.Azagu Sundaram (2009-2013), Site Engineer Sivam Construction, Hosur on 25th July 2014.
- P.K.Naveen (2010-14), Site Engineer Fortune Infrastructure, Mysore on 02nd August 2014.
- M.Jagadeesan (2010-14), Site Engineer, Star Construction, Erode on 04th September 2014.
- S.Ranjith Kumar (2010-14), Site Engineer, Fine Construction, Erode on 11th September 2014.
- R.Sivasankar (2010-14) & D.Karthikeyan (2011-14), Site Engineer in V.R.R Construction Karur on 26th September 2014.
- T.Lingesh (2010-14), VV National Plastic Company, Perundurai & S.Sathish (2011-14), Site Engineer in SSM Construction Erode on 26th September 2014.





Photos at a Glimpse



Academic Toppers

Master of Engineering (Structural Engineering)

(2013-15 Batch)



Dhaarani M
(9.77 GPA)



Kamalakannan M K
(9.54 GPA)

(2014-16 Batch)



Shanthini D
(8.82 GPA)



Jayashree J
(8.32 GPA)

Bachelor of Engineering (Civil Engineering)

(2011-15 Batch)



Arun Prasanth S V
(8.96 GPA)



Vijaya Kumar K P
(8.13 GPA)



Nagaraj K
(7.73 GPA)

(2012-16 Batch)



Dinesh Kumar G
(8.00 GPA)



Surya Devi T
(7.90 GPA)



Thivya Devi K G
(7.86 GPA)

(2013-17 Batch)



Janani S
(8.79 GPA)



Savitha T
(8.75 GPA)



Naveen Kumar P
(8.70 GPA)



Navaneetha S
(8.58 GPA)



Sathivelu K
(8.33 GPA)



Dr. E.K. Mohanraj, Dean - Civil Engineering, Nandha Engineering College receiving the
ICI (TNCC) - UltraTech Award for Outstanding Student Chapter of Tamil Nadu - 2014
 from Shri. K. Jayasankar, Asst. Vice President (Technical Services), UltraTech Cement Ltd., on 18th September 2014 @ Chennai



Dr. E.K. MOHANRAJ, Dean - Civil Engg. receiving the
ICI Best Students Chapter Award 2014
 from Dr. S. SARASWATI, President, ICI on 26th Sep 2014 @ Mumbai

Anna University Rank Holders (2010-14 Batch)



Nivetha M
 (8.95 CGPA)
 12th Rank



Arivu Tharavida Selvan V
 (8.68 CGPA)
 33rd Rank



Akash V
 (8.60 CGPA)
 41st Rank



Nandha Engineering College

(An Autonomous Institution Affiliated to Anna University, Chennai & Approved by AICTE, New Delhi)

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