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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: 7 | Jun - Nov 2016



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 them the very best.

Welcome to the seventh issue of Concrete News, which highlights the achievements of the Civil Engineering Department at Nandha Engineering College. Odd Semester 2016-17 was a semester of great achievements and carried on the momentous journey of the department 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.



Academic Toppers

Bachelor of Engineering (Civil Engineering)

(2013-17 Batch)



Navaneetha S
(9.36 GPA)



Kepsi K
(9.36 GPA)



Savitha T
(9.14 GPA)



Janani S
(8.91 GPA)

(2014-18 Batch)



Susi V
(9.32 GPA)



Velmurugan N
(9.28 GPA)



Santhiya S
(8.96 GPA)



Yuvasri M
(8.96 GPA)

(2015-19 Batch)



Kiruthika Nandhini B
(9.44 GPA)



Malarvizhi E
(9.30 GPA)



Ranjith Kumar M
(9.07 GPA)

(2016-20 Batch)



Prabagowre D
(9.79 GPA)



Shreekayathri A C
(9.46 GPA)



Sowmiya M
(9.29 GPA)



Shanmugapriya M
(9.08 GPA)



FACULTY DEVELOPMENT PROGRAMME

ICI-NEC arranged Faculty Development Programme on Modern Surveying using Total Station for Civil Engineering Faculty Members on 17th June 2016. The training was carried out by Mr. Sanal Jegadeesan, Sr. Technical Specialist from Elcome Technologies Pvt. Ltd, Chennai.



Total Station is a combination of an electronic theodolite and an EDM instrument. The total station is working under the concept of both Infra-Red Rays (IR) & Visual Red Laser (VRL). For IR method used to measure the distance up to 500 m without reflector. If more than 500 m both the IR and VRL are used. A microprocessor is also included for reduction of the observed data, so that the instrument can display the slopping distance, the vertical distance, the horizontal distance, difference in the elevation, and the co-ordinates. The data can also be stored in the memory of a storage device for further computations using a digital computer. The advent of total station has revolutionized in the field of surveying and has found applications in a wide variety of civil

engineering jobs. The basic feature of the instrument has been learnt and the initial adjustments that have to be done in the instrument before starting any work have been taught. After that the faculty members have learn how to measure the horizontal distance, the vertical distance and also the total area of the ground in the total station.

HANDS-ON-TRAINING USING TOTAL STATION

ICI-NEC arranged Hands-on-Training using Total Station for Final Year Civil Engineering students on 18th June 2016. The training was carried out by Mr. Sanal Jegadeesan, Sr. Technical Specialist from Elcome Technologies Pvt. Ltd, Chennai. The main premise of the training was to give the latest digital surveying techniques to the students. The



enclosed topics are total station 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 understand in this training session. In total station components, applications, benefits, field to finish were discussed. In global positioning system, the segments, satellite constellation, on line principle in LiDAR surveying components, and how to get





outputs using AutoCAD software are explained at the end of the day. 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.

FACULTY TRAINING PROGRAMME

ICI-NEC arranged Faculty Training Programme on Data Interpretation from total station for Civil Engineering Faculty Members on 20th June 2016. The training was carried out by Mr. T. Venkatesh & Mr. B. Vinoth, Technical Specialist from D S Institute of Technology, Chennai. The programme



was conducted by two sessions, the first session was in data collection from the field by using total station. The data like angle between the two points, distance, area and elevation of building are collected. The second session of the program was interpreting the collected data to the computer by using NTS software. The data are generated either in "dat" or in "cvs" format. Then these data are converted in to AutoCAD file by using software.

HANDS-ON-TRAINING USING ANSYS

ICI-NEC has organized Hands-on-Training on Real Time Industrial Applications with ANSYS on 10th August 2016. The training was carried out by



Mr. R. Balraj, Technical Director and Mr. K. Muthukumar, Training Supporter from ARRIS CADD Technology, Coimbatore. The first session they explained about the different types of software available in the market for design and modelling purpose. After that he explained about scope of ANSYS software and how they applied in the civil engineering field. Second session he explained about step-by-step procedure for design of a beam as well as composite members. And then



they gave brief explanation about pre-processing and post-processing element design. They also told that how to find the errors occurred while designing of beam. Finally the query time has left for students asked their doubts and information about the session.





ASSOCIATION INAUGURAL FUNCTION

The inaugural function of ICI Students Chapter - NEC was held on 16th August 2016. The Chief Guest of this function was Dr. M. J. Gopinathan, President, Structural Engineering Association, Tirupur & Managing Director, JPG Housing & Projects Private Ltd, Tirupur. In this Inaugural function the office bearers of Civil Engg.



Association was introduced. The Department News Letter **“Concrete News”** for the even semester of the academic year 2015-16 was released by the Chief Guest and the same was received by the CoE, Principal & Dean. Then the Chief Guest distributed the Certificates with shield to Academic Toppers who secured top positions in the Last Year End Semester Examinations both UG & PG. He shared about various Job opportunities for Civil Engineers in our country, facilities offered by the companies, expenditure for a single person, defects in daily life, is it worth getting job in our country?. And he shared lot of problems faced by the Civil Engineer's in the field and he shared his own experience to the students. And he enlightened them about the benefits of a Civil Engineer and



gave many ideas about the difficulties in faced when they started a new construction company. Finally students were much delighted to thank for his enthusiastic speech.

AWARENESS PROGRAMME ON CAREER OPPORTUNITY & HIGHER EDUCATION IN ABROAD

ICI-NEC has arranged Elucidation on “Awareness Programme on Career Opportunity & Higher Education in Abroad” on 18th August 2016 by Mr. Syed Osama, 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 jobs 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. Syed Osama for giving this valuable information.

MOTIVATIONAL LECTURE ON IMMEASURABLE (LIFE)

ICI-NEC was conducted a "Motivational Lecture on Immeasurable (LIFE)" on 23rd August 2016. Er. A. K. Prasad gave lecture about mind. He explained about mind be classified as into three things conscious, sub conscious and deep conscious. Conscious is a feeling, feel (outside) by five sense of the body. Sub conscious can be



changed by regular activities. Deep conscious is a memories saved by unforgettable situations and this cannot be changed. He makes us to feel positive and positive thoughts will succeed a lot. He did many demos those are very useful, he said that we should get believe on us not about on the god. He thought that everyone will success in their life and Nobody in the world without talent. We all get interested in his speech and inspired us. His thought is about positive thoughts may succeed in all situation.

COURSE ON PLANNING AND QUANTITY SURVEYING

ICI-NEC has organized course on "Planning and Quantity Surveying" on 8th & 9th October 2016 by Mr. Senthil Nayagam, Enthi Technology Solutions India Pvt Ltd, Coimbatore. The students of Final Year Civil Engineering have attended the course. This is a very good opportunity for them to learn practical knowledge about the planning, scheduling, material and cost estimation. Through this course, students have a chance to know the current market price of all building materials. Moreover, students learnt how to schedule the activities in a proper sequence and to finish the project in time. Then, students have been taught to utilize the materials efficiently and to reduce the cost of construction without compromising the quality of construction. Above all these, students have observed different methods to check the quality of work. For the first time, students have used MS Project to schedule and co-ordinate the



different activities of a construction project. Also students used MS Excel for quantity and rate estimation. Students also get trained in labour scheduling which we cannot learn anywhere else.





Now students have experienced to do a detailed estimate and scheduling of a construction project alone without any error. Moreover, this training will be very useful in their future career.

MEMORANDUM OF UNDERSTANDING

The ICI-NEC has signed MoU with CADD Centre, Perundurai on 6th Oct 2016. Mr. U. Venkatesan, Centre Manager and Dr. N. Rengarajan, Principal, NEC have signed MoU. The purpose of this MoU is to conduct the value added courses to the Civil Engineering students at NEC campus. During



this course the students will gain knowledge in the software like AutoCAD, Archi CAD, STAAD.Pro, Primavera & MS Project based on their interest. This will help the students to get placement in the core companies.

PAPER PUBLISHED / PRESENTED

- S. Suresh & N.R. Monika has published a paper on “Mechanical Properties of Concrete with Partial Replacement with Fine Aggregate as Foundry Sand & Coarse Aggregate as Ceramic Tiles” in the International Journal of Intelligent Research, Vol: 8, July to Dec 2016.
- L. Gowthamraj & K. Selvi has published a paper on “An Experimental Study on Mechanical Characteristics of Treated Bamboo

Reinforced Concrete Beams” in the International Journal of Intelligent Research, Vol: 8, Jul to Dec 2016.

- P. Dhilipkumar & P. Shankar has published a paper on “An Experimental Study on Mechanical Properties of Scrap Reinforced Concrete by using Waste Metal” in the International Journal of Intelligent Research, Vol: 8, July to Dec 2016.

SKILL UPGRADATION - FACULTY MEMBERS

- S.K.Gowtham & T.R.Ragahavan attended Training Program on Finite Element Method and its Applications in Structural Engineering and Hydraulics at **NIT, Calicut** from 4th to 10th July 2016.
- P.Shankar & G. Amirthagadeshwaran attended FDP on Teaching Techniques at KSR College, Tiruchengode on 25th & 26th July 2016.
- P.Karthika, S.Sankar & K.Selvi, Faculty Members attended Workshop on “Basics of Dynamics and Earthquake Hazard Assessment” at BIT, Sathy on 27th July 2016.
- Dr.EKM, PS, KPS, RP, SSK & GA Faculty members attended CLD on “Faculty Interaction Program” by Mr. Duraivel Gopal, Sr. Vice President, Infrastructure Management Services, Chennai on 20th Sep 2016.
- Dr. EKM, S.S & G.A, Faculty members attended conference on “Future Trends in Infrastructure Industry” organized by CII at URC Pvt. Ltd, Erode on 27th Nov 2016.



**SKILL UPGRADATION - STUDENTS**

- 40 Models were exhibited in '7th Innovation Day' from Second Year, Third Year & Final Year Students were participated. Third Year students got '**First Prize**' for the model namely '**Rat Trap Bond Technical Building**', Third Year students got '**Second Prize**' for the model namely "**Thirsty Road Construction**" and Second Year students got '**Third Prize**' for the model namely "**Optical Illusion Project**" from 15th to 17th July 2016.
- S.N.Syed Farvees, Final year student participated in final round **Youth Talk** at KSR College of Engineering on 12th August 2016.
- J.Kavin & K.Sabarinathan, Final Year got **Second Prize** in **Brick Bonding** at SNS College of Engg., CBE on 12th Aug 2016.
- P.Vignesh & J.Nagarajan, Third year student participated in paper presentation and other events, J.Nagarajan got **First Prize** in **CADD Modelling** at Kongunadu College of Engg. & Tech., Namakkal on 12th Aug 2016.
- S.Mariappan, Third year student secured **Top 10th Position** in Mr. Arnold Classic 2016 at Erode District Amateur Body Building Association, Erode on 14th August 2016.
- V.K.Vishnu, K.E.Senthurvasen & C.B.Logeswaran, Final year students attended **Entrepreneurship Awareness Camp** at NEC on 18th to 20th August 2016.
- V.P. Arun Babu got **First Prize** in **Photography**, K.Jawakar & S.Madhumathi got

- Second Prize** in **Poster Presentation**, T.Jagadeesh, M.Monisha, & S.Madhumathi got **Second Prize** in **Technical Quiz** & T.Jagadeesh, K.Ramakrishnan, V.Jayaraman got **First Prize** in **Treasure Hunt** at Mahendra Engg. College, Namakkal on 19th August 2016.
- S. Mariappan, Third year student got **Second Position** in Inter District Body Building Competition at Tirunelveli on 21st Aug 2016.
- K. Sakthivelu and M. Manoj, Final Year Students got **First Prize** in '**Technical Quiz**' at Gnanamani College of Technology, Namakkal on 24th August 2016.
- B.Gokul, P.Naveenkumar & S.Deepika, Final Year students placed in **Tech Mahindra, Chennai** on 1st Sep 2016.
- N.Sridhar, Final year student attended Workshop on "Advances Soft Computing Tools in Water Resources and Coastal Engg." at **NIT, Trichy** on 8th - 10th Sep 2016.
- 6 Nos. of UG & PG students got **Third Prize** in **Anna University Inter Zone - XII Cricket Tournament** on 15th September 2016.
- S.Rajesh & P.Vignesh, Third Year student got **Second Prize** in **Paper Presentation** and also got **First Prize** in **Selfie** at Dr.NGP Institute of Tech, Coimbatore on 17th September 2016.
- K.Jawahar got **First Prize** in **Paper Presentation**, **Second Prize** in **Poster Presentation** & **Third Prize** in **Model Making**, S.Rajesh Kumar & V.Susi got **Second Prize** in **Model Making**, T.Jagadeesh & M.Monisha





got **Third Prize** in **Paper Presentation**, V.P.Arunbabu got **Third Prize** in **Model Making** at JKKM College of Tech, Gobichettipalayam on 21st September 2016.

- 7 Nos. of Third Year students attended “Skill Development Program on Computer Hardware and Networking” from 21st - 23rd Sep 2016.
- 136 Nos. of Second Year, 13 Nos. of Third Year & 28 Nos. of Final year students attended program on **Higher Education** on 22nd Sep 2016.
- S.P.Prasanna, Third Yr student participated in ‘**State Judo Championship**’ at Ilainar Narpani Mandram, Theni on 23rd & 24th Sep 2016.
- 4 Nos. of Third Year students Participated in **Paper Presentation** at Surya Engineering College, Erode on 24th September 2016.
- 4 Nos. of Third Year students attended Seminar on “**Research Avenues in Civil Engineering**” @ Erode Sengunthar Engg. College, Erode on 24th Sep 2016.
- V.Susi & M.Yuvasri, Third year students got **Third Prize** in **Paper Presentation** and also got **First Prize** in **Hide & Seek**, V.Susi got **Third Prize** in **CADD Contest** at MPNMJ Engg. College, Chennimalai on 27th Sep 2016.
- S.R.AshimJerin, M.Ganesh Kumar & S. Gokul, Third year students got **First Prize** in **Poster Presentation** and **Photography**, **Second Prize** in **Short Film**, S.Rajeshkumar & P.Vignesh got **Second Prize** in **Paper Presentation** @ Mahendra Institute of Engg. and Tech., Namakkal on 28th Sep 2016.

- 9 Nos. of Second & Third Year students participated in **Paper Presentation** at Knowledge Institute of Tech., Kakapalayam, Salem on 29th September 2016.
- 3 Nos. of Third Year students attended Workshop on “Green Technologies for Environmental Management” at M.Kumarasamy College of Engineering, Karur on 3rd October 2016.
- V.P.Arunbabu & S.Madhumathi got **Second Prize** in **Paper Presentation** at Karunya University, Coimbatore on 5th October 2016.
- M. Praveen Kumar, N. Sridhar, A. Surya Prakash, M. Manoj, N.G.Vinod Kumar & S. Ravichandran, Final Year students **Placed** in **Maark Aluminium**, Erode on 14th Oct 2016.
- B. Gokul, Final Year student got Research Attachment Program during 1st December 2016 to 31st March 2017 at **Universiti Teknologi Petronas, Malaysia** on 17th October 2016.
- S.P.Prasanna, Third Year students got **Bronze Medal** in **Anna University Inter Zone Judo Championship** at Paavai Engg. College, Namakkal on 23rd October 2016.
- 4 Nos. of Third & Second Year students got **Fourth Prize** in **Hockey Match** at Maharaja Engg. College, CBE on 24th Oct 2016.
- 7 Nos. of Final year students have got **Project @ National Transportation Planning and Research Centre, Thiruvananthapuram** from the month of Dec ‘2016 to March ‘2017.
- S. Prasanna, Third Yr students selected as National Level **Judo** at Theni on 14th Nov 2016.





ALUMNI INTERACTION WITH FINAL YEAR STUDENTS

- T.Kavin (2012-2016), Site Engineer, **RPP Infra. Projects Pvt. Ltd** on 9th Aug 2016.
- M.Sadham Hussian (2012-2016) Technical Assistant, **PWD, Gobi** on 11th Aug 2016
- S.Sasidharan (2012-2016), Site Engineer, **Ganapathy Architects, CBE** on 12th Aug 2016.
- S.Sivaraj (2012-2016), Site Engineer, **CMK Projects Pvt. Ltd, Chennai** on 16th Aug 2016.
- K.Ramkumar (2012-2016), Technical Assistant, **Highways Department, Tiruppur** on 17th Aug 2016.
- V.Thiyaneswaran, Site Engineer, **Renaatus Projects (P) Ltd, Maldives** on 19th Aug 2016.
- D.Karthick (2012-2016), Site Engineer, **SVM Consultancy & Contractors, Perundurai** on 20th Aug 2016.
- K.Satheeskumar (2012-2016), Site Engineer, **RR Thulasi Builders (P) Ltd, Erode** on 20th Aug 2016.
- M.Vijay (2012-2016), Technical Assistant, **PWD, Gobi** on 15th Sep 2016.
- V. Sheela Devi (2012-2016), Design Engineer, **Mani Arasu Associates, Udumalpet** on 18th Oct 2016.
- A. Swathi (2012-2016), Design Engineer, **Mohanraj & Co, Erode** on 18th Oct 2016.
- M.Abeeb (2012-2016), Project Engineer, **Villa Project, Kerala** on 14th Oct 2016.
- G. Dinesh Kumar (2012-2016), Design Engineer, **Rebar Detailer, Coimbatore** on 19th Oct 2016.
- M.Aranganathan (2012-2016), Site Engineer, **Andavar Construction** on 19th Oct 2016.
- S. Rajesh (2012-2016), Site Supervisor, **P&C Projects Pvt. Ltd.** on 19th Oct 2016.

ICI STUDENTS CHAPTER AWARD



Dr. N. Rengarajan, *Principal*, Dr.E.K.Mohanraj, *Dean*, P. Shankar, S. Gnanavenkatesh and students has received **Outstanding Student Chapter Award** from ICI (CC) on 25th Nov 2016.

ME STRUCTURAL ENGINEERING ACADEMIC TOPPERS



L. GOWTHAMRAJ
II Year (9.1GPA)



V. NANDHINI
I Year (8.7 GPA)

NBA ACCREDITATION COMMITTEE VISIT



Department of Civil Engineering has Accredited by NBA



AWARDS AND ACHIEVEMENTS



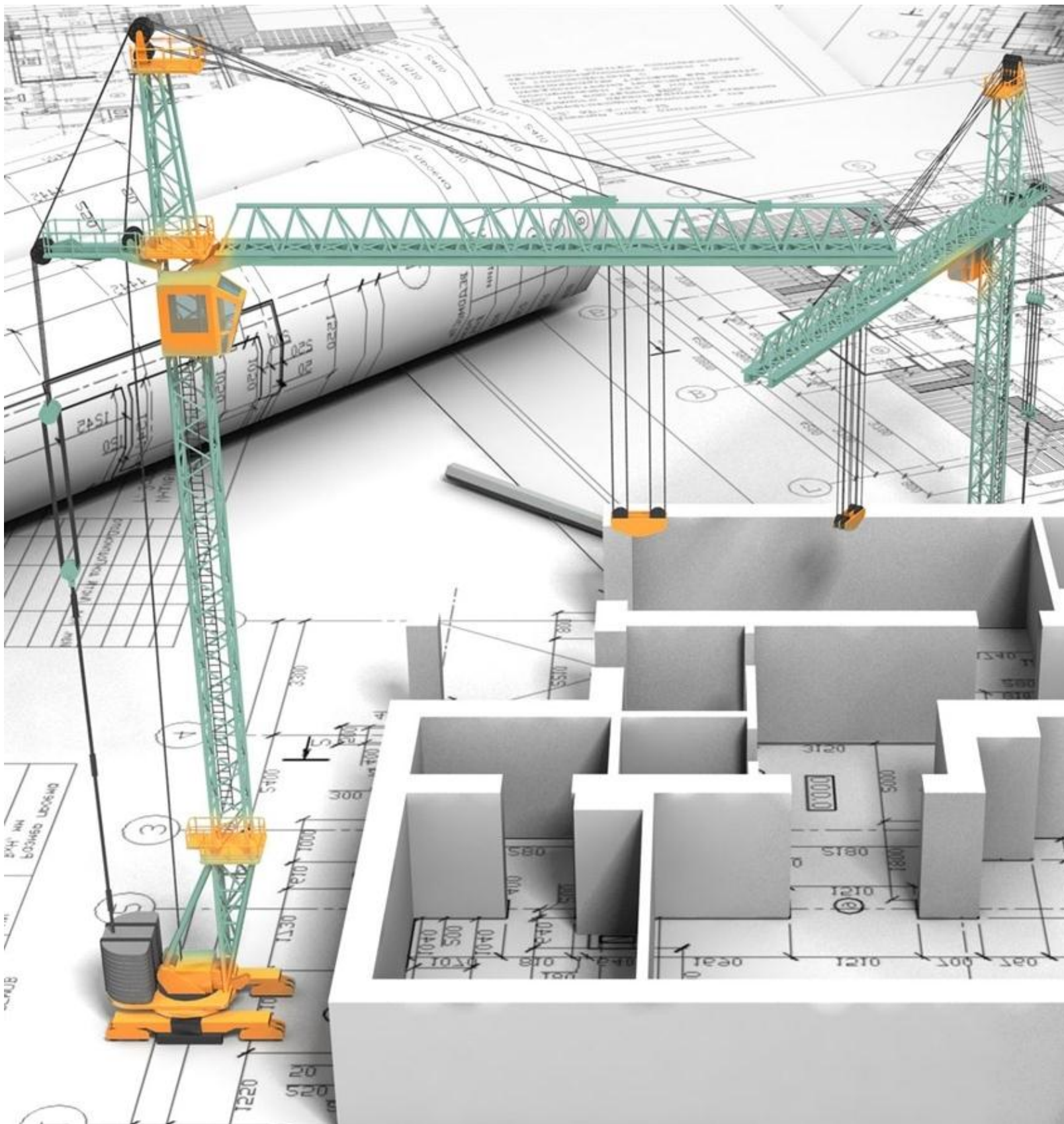
Dr. E. K. Mohanraj, Dean has received **Dr. APJ Abdul Kalam Award for Teaching Excellence** at Marina Labs (R&D), Chennai on 22nd October 2016.



Dr.E.K.Mohanraj has received **Outstanding Scientist Award** in the discipline of **Structural Engineering** by Venus International Foundation, Chennai on 19th Nov 2016.



Dr. K. Subramanian, Chairman, ICI (CC) has presented the **"ICI (Coimbatore Centre) - UltraTech Award for Outstanding Student Chapter of Tamil Nadu - 2016"** on 25th Nov 2016.



Nandha Engineering College

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

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