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Indian Concrete Institute Student's Chapter

CONCRETE NEWS

The News Bulletin from Nandha Engineering College

Department of Civil Engineering (Accredited by NBA)

Shaping Minds...Reshaping India...

Vol: 09 Jun '17 - Nov '17



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 ninth issue of Concrete News, which highlights the achievements of the Civil Engineering Department at Nandha Engineering College. Odd Semester 2017-18 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.



Dean - Civil Engg.



Bachelor of Engineering (Civil Engineering)



(9.74 GPA)

(2014-2018 Batch)



(9.39 GPA)



Hemalatha S (9.13 GPA)



Jawahar K (9.13 GPA)



Kiruthika Nandhini B (9.71 GPA)

(2015-2019 Batch)



Ranjith Kumar M (9.66 GPA)



Gunaseelan M (9.19 GPA)



Shreekayathri A C (9.65 GPA)



(9.38 GPA)

(2016-2020 Batch)



Shanmugapriya M (9.23 GPA)



Sowmiya M (9.23 GPA)

(2017-2021 Batch)

Prabagowre D

(9.23 GPA)



Praveen Kumar V (9.29 GPA)



Manikandan M (8.88 GPA)



Raguram N (8.67 GPA)



SEMINARS / WORKSHOPS / PROGRAMMES

TWO DAYS PRACTICAL TRAINING ON SURVEYING & TOTAL STATION

ICI-NEC has arranged "*Two Days Practical Training on Surveying & Total Station*" on 12th & 13th June 2017. The training was carried out by Mr.T.Venkatesh, Technical Specialist, VS Institute of Technology, Coimbatore. The main premise of the training was to give the latest digital



surveying techniques to the Faculty Members and 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 training session gives blossoming ideas about advanced technologies in surveying.

WORKSHOP ON CIVIL ENGINEERING SOFTWARES

ICI-NEC has arranged a "Workshop on Civil Engineering Softwares" on 05th July 2017. The session was engaged by Mr.H.Gowrishankar, Head Technical with his team members. They gave



introduction about the Penta CAD company and their achievements. They discussed about the Auto CADD, Revit Architecture & STAAD.Pro softwares in detail. During the session they showed different





types of elevation for Residential and Commercial Buildings. They gave idea about the 3D Modelling and its application in the field. They gave tips about how to draw plan and elevation in Revit Architecture in a short period of time. This session gave an clear idea about the importance of the Civil Engineering Softwares for our students.

AWARENESS PROGRAMME ON HIGHER EDUCATION AND JOB OPPORTUNITIES IN ABROAD

ICI-NEC has arranged an "Awareness Programme on Higher Education and Job Opportunities in Abroad" on 06th July 2017 by Mr. Syed Osama, HR Consultant, STAAR UNITED INC, Mumbai. He gave detailed explanation about 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 doing 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.

SEMINARS / WORKSHOPS / PROGRAMMES

WORKSHOP ON STAAD.Pro

ICI-NEC has arranged a "*Workshop on STAAD.Pro*" on 06th July 2017. The session was engaged by Mr. B. Jaffer Sadik, Branch Head with his team members, C CUBE Technologies. They gave introduction about the STAAD.Pro software



package available for our Civil Engineering Department and their uses. In this they have told about the uses and advantages of the software. It includes STAAD modelling and member design etc. This session helps us to understand about the importance of STAAD.Pro for students career.

ISRO SPONSORED NATIONAL SEMINAR

ICI-NEC has conducted an "ISRO Sponsored National Seminar on 4 Ps (Predict, Plan, Prepare







& Protect) of Flood using Remote Sensing and GIS" on 07th July 2017. In that occasion **Dr. Kiran Yarrakula, VIT University, Vellore** inaugurated



the seminar and delivered a valuable speech on the topic of "Flood Inundation Mapping and Damage Assessment using Remote Sensing and GIS". The Second Session was continued by Dr. S. Saravanan, NIT, Trichy on the topic of



"Flood Plain Mapping and Modeling using RS & GIS - A case study of Trichy City". The third session was carried over by **Dr. T.Subramani, Anna University, Chennai** on the topic of *"Water*

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Resource Planning for Flood Management using Remote Sensing and GIS" and the last session was



handled by Shri. R. Karthigaiselvan, ESRI India Technologies Ltd, Chennai on the topic of "Role of Remote Sensing and GIS in Flood Management". Welcome address has been given



by Dr.E.K.Mohanraj, Dean - Civil Engineering Department. Principal Address has been given by Dr. N. Rengarajan, Principal, NEC. Around 250 students from various Engineering Colleges have participated in this ISRO Sponsored Seminar.



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WORKSHOP ON REVIT ARCHITECTURE

ICI-NEC has arranged a "Workshop on Revit Architecture" on 10th July 2017. The session was engaged by Mr. V. S. Senthil Kumar, Center Head & Mr. U. Venkatesan, Head Technical with his team members. They gave introduction about the



software packages available for our Civil Engineering Department and their uses. They discussed about the Revit Architecture software in detail. In this they have told about the uses and advantages of the software. It includes interior design, exterior design, 3D View etc. Finally they said about the oppurtunities of Revit Architecture in Civil Engineering. This session helps us to understand about the importance of Revit Architecture for students career.

MEMORANDUM OF UNDERSTANDING

ICI-NEC has signed MoU with Diagonal CADD, Perundurai on 10th July 2017. Mr. V. S. Senthil Kumar, Center Head 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. During this course



the students will gain knowledge in the software like Auto CAD, REVIT MEP, STAAD.Pro, Primavera & MS Project based on their interest. This will help the students to get placement in the core company.

HANDS ON TRAINING USING STAAD.Pro

ICI-NEC has arranged a "Hands on Training using STAAD.Pro" from 19th - 21st July 2017. The session was engaged by Mr. P. Suresh Anand, Design Engineer, C Cube Technologies, Erode and his team members. They gave introduction about the software packages of STAAD.Pro for our Civil Engineering Department and their uses. They discussed about the frame and model design





ACADEMIA: A CONFLUENCE OF IDEAS SEMINARS / WORKSHOPS / PROGRAMMES

software in detail. In this they have told about the uses and advantages of the software. Finally they told about the oppurtunities of STAAD.Pro in Civil Engineering. This session helps us to understand about the importance of STAAD.Pro for students career.

AWARENESS ON INDUSTRIAL SAFETY MANAGEMENT

ICI-NEC was conducted an "Awareness on Industrial Safety Management" on 23rd August 2017. Er. K. Ashok Kumar, Manager (Engg.), Ponni Sugars Ltd, Erode gave lecture about



safety measures to be followed in industries and their importance. He explained about Bhopal gas tragedy, the world's worst industrial disaster happened at 2nd Dec, 1994 at Madhya Pradesh. In



that incident over 5,00,000 people were exposed to methyl isocyanate due to improper maintenance in industry. He taught about safety equipment that to be wear while working in industry. He takes over the session through some activity demonstration, from this activity the students gained knowledge on safety measures in industry. The students also get impressed in his speech and inspired.

ASSOCIATION INAUGURAL FUNCTION

ICI-NEC Civil Engineering association inaugural was held on 11th Sep 2017. The Chief Guest of this



function was Mr. G. Suresh Kumar, Chief Marketing Officer, Renaatus Procon Pvt Ltd, Erode. In this Inaugural function the office bearers of Civil Engineering Association were introduced. The Department News Letter **"Concrete News"** for the even semester of the academic year 2016-2017 was released by the Chief Guest and the same was received by the CoE, Principal & Dean - Civil Engineering. 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



explicate about Autoclaved Aerated Concrete (AAC) Blocks and the latest manufacturing



techniques they had. He explained about the qualities of their products like AAC Blocks, Renabond, etc., at the middle session he



presented a video clip about their manufacturing process. Then he gave exposure of their past and

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future projects. Finally students were much delighted to thank for his enthusiastic speech.

INTRA DEPARTMENT MEET

ICI-NEC has conducted Intra Department meet on 15th September 2017. Various events like Poster Presentation, CADD contest, Quiz, Just a Minute (JAM) and Code Cracking were conducted to the students which were very useful to develop and



expose the talents. All the students were immensely thankful to the Dean and faculty0020members of Civil Engineering department who made the day a successful one.

MOTIVATIONAL SESSION ON LEADERSHIP QUALITIES

ICI-NEC organized Allocution on "*Motivational* Session on Leadership Qualities" for Civil Engineering students on 19th & 20th Sep 2017. *Mr. Krishna Prasad Nair, Chief Trainer, AADHI* Foundations, Coimbatore started about the importance of leadership and explained about the need of building the leadership quality within everyone. He explained about the qualities for leadership building like Discipline, Integrity,



Personality Development, Life Style Management and Stress Management. He elucidates the students about the difficulties in getting job and how to accommodate the job environment. He also added that we all need to face everything in a bold way. He mainly focused on the topic that how to make a change that we need on our life in order to survive in the world. He gave explanation on the stress



management and the current problems that everyone is facing in job environment and gave few ideas about how to reduce the stress factor and make us free. He also added that we should ask for what we need. He gave some questions for to know about our logical thinking capacity and time management. He also explicate about how to face the problems and get away from the problem that obstruct us from the path of our goal. He finally concluded that *"We must be the change that we need in others"*.

ENGINEERIA (Finding Emerging Engineers)

ICI-NEC in association with CADD Centre has arranged a CADD Competition in the name of ENGINEERIA (Finding Emerging Engineers) on

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26th September 2017. The session was engaged by Mr.R.Omprakash, Centre Head with his team members, CADD Centre, Perundurai. This



programme was organised the students can to expose their designing ideas. It well help to gain the excellent knowledge in design also help to students can start their career in design field.

INDUSTRIAL VISIT TO LAURIE BAKER CENTER AT THIRUVANANDHAPURAM

ICI-NEC has arranged Industrial Visit for the Final Year Students to "Laurie Baker Center for Habitat Studies" at Thiruvanandhapuram on 28th Sep 2017. 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 2 acres. The estimated project cost for the construction is around 80 lakhs. The type of foundation used in the construction site is rubble foundation. The students got very good exposure to do construction with new construction techniques for major projects. One crane is used for transporting the construction materials. Finally the students thanked





the Project Manager and Site Engineers for their guidance. All the students were immensely thankful to the Dean, HoD and faculty members of Civil Engineering department who made the day a successful one.

LOCAL VISIT @ TWAD BOARD

ICI-NEC has arranged Local visit for First Year Civil Engineering students at Tamil Nadu Water Supply and Drainage Board (TWAD) in Chitthode. Main objective of this visit is to gain knowledge on treatment process of water and surveillance of all drinking water sources. Around 51 students along with 2 faculty members went for that visit on 10th Nov 2017. As soon as we reached we were guided by Mrs. K. Bhuvaneswari, Assistant Engineer, TWAD Board, Chitthode. She explained about primary water and secondary water treatment scheme consisting of raw water resource, aeration, chemical coagulation, flocculation, sedimentation, filtration, disinfection, and backwash water and sludge. The students were much enhanced and this will help the students to understand subject matter clearly in future also. Students were enormously

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thanking their Management, Principal, Dean and Faculty Members of Civil Engineering Department for arranging this visit.

R&D PROPOSALS

- Dr.E.K.Mohanraj, K.Selvi, P.Shankar, G.Amirthagadeshwaran, S.Gnanavenkatesh & P.Karthika has submitted Skill Development Training Proposal on "Mason (General) and Plumbing" @ PMKVY, AICTE, New Delhi on 15th July 2017.
- 15 Nos. of III & IV Year Students Project Proposal submitted to TNSCST, Chennai and FAER, Bangalore on August 2017.

PAPER PUBLISHED / PRESENTED

- K.V.Chandiya & P.Karthika has published a paper on "An Experimental Study on Strength and Durability of Concrete with Partial Replacement of Coarse Aggregate with Cupola Slag"
- C.S. Crithu Dass Gandhi & P.Shankar has published a paper on "Experimental Behaviour of High Performance Fibre Reinforced Concrete"



- K. Karthiga Priya & S.Gnana Venkatesh has published a paper on "An Experimental Investigation on Partial Replacement of Fine Aggregate by M- Sand and Cement by Steel Slag"
- V. Nandhini & K.Selvi has published a paper on "Strengthening Factor for RC Beams using Precast SIFCON Lamination"
- G.Raju & K.Selvi has published a paper on "An Experimental Investigation on Splicing of Reinforcement in Reinforced Concrete Beam by Bar Coupler" in the Indo-Iranian Jr. of Scientific Research, Vol: 1, Issue: 1, Oct-Dec 2017.

SKILL UPGRADATION - FACULTY MEMBERS

- 10 Nos. of Faculty Members attended Faculty Training Program on Total Station by T.Venkatesh, D.S Institute of Technology, Coimbatore on 13th June 2017.
- K.C.Denesh & S.K.Gowtham, APs attended Workshop on "Sustainable Solid Waste Management Technologies for Clean India (NSSWMT-17)" at KSR College of Tech, Tiruchengode on 23rd June 2017.
- Dr.E.K.Mohanraj, K.Selvi, G.Amirthagadeshwaran, P.Shankar with 21 Nos. of Final Year & PG students were attended One Day Seminar on *Emerging Trends in Precast Construction* at IIT-M, Chennai on 21st July 2017.
- Dr.E.K.Mohanraj & S.Amirthagadeshwaran, Faculty Members with Final Year students attended Workshop on Industry Institute Enclave 2017 at Coimbatore 09th August 2017.

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- S.Tharanya, R.Ranjani & P.Karthika, APs along with 5 Nos. of IV Year students attended Seminar on *"Improvement of Groundwater Management System in Erode District"* at Velalar College of Engineering and Technology, Thindal 10th & 11th August 2017.
- S.Gnana Venkatesh & A.Abdul Hameed, APs with IV Year students attended Workshop on "3D Max" at BIT, Sathy on 7th Sep 2017.
- P.Shankar, AP with 2 Nos. of II Year UG students and 4 Nos. of PG students visited CSIR-SERC, Chennai on 26th Sep 2017.
- S.Sarankokila, S.Tharanya, R.Ranjani & G.Amirthagadeshwaran, Faculty Members attended CLD on *"FDP on Stress and Distress"* at NCT on 23rd Sep 2017.

SKILL UPGRADATION - STUDENTS

- 30 Nos. of IV Year students attended Student Development Program on Total Station by T.Venkatesh, D.S. Institute of Technology, Coimbatore on 12th June 2017.
- 6 Nos. of PG Students, 60 Nos. of Final Year Students and 40 Nos. of Third Year students attended In-Plant Training at various construction industries in and around TN during June 2017.
- 40 Nos. of IV Year students attended Career Guidance & Higher Education from Times Institute, Erode on 20th June 2017.

- 2 Nos. of IV Year students on going coaching for Bank Exam at NEC on 3rd July 2017.
- 13 Nos. of IV Year students applied for **Internship** at **CSIR-SERC**, **Chennai** on 14th July 2017.
- 11 Nos. of IV Year students applied for ICT Academy Student Innovator Award 2017 on 21st July 2017.
- 15 Nos. of III Year & 10 Nos. of IV Year students doing online NPTEL courses @ NEC on 24th July 2017.
- Exhibition of **Old Coin Expo** attended by Third Year students at NEC on 04th Aug 2017.
- 84 Nos. of II & III Year students went to Makkal Sinthanai Peravai - Book Festival, Erode on 4th August 2017.
- K.Kowsalya & R.Dharsana, IV Year students attended Training in Infrastructure Engineering at BSNL, Erode from 8th Aug -20th Sep 2017.
- R.Prakash & R.Vidhyapathi, III Year students attended Workshop on "Advancements and Challenges in Water Supply Systems" at KPR Institute of Engineering and Technology, Coimbatore on 11th & 12th August 2017.
- Opportunities for Engineers in MSME by Shri.
 S. Sathesh Kumar, Deputy Director, MSME, Coimbatore for I Year students in NEC on 17th August 2017.

- 41 Nos. of III Year students attended Program conducted by Higher Education Cell, RACE Institute, Erode at NEC on 17th August 2017.
- 11 Nos. of III Year students attended Workshop on "Soil and Foundation Engineering" at Kongu Engineering College, Perundurai on 18th August 2017.
- 26 Nos. of IV Year students attended Industrial Seminar on "Awareness Program on Industrial Safety Management" by Mr. K. Ashok Kumar, Manager (Engineering), Ponni Sugars, Erode on 23rd August 2017.
- 5 Nos. of III Year students attended Youth Leadership Summit - 2017 at CODISSIA, Coimbatore on 23rd August 2017.
- Seminar on Awareness about Bank Employability by Mr. Siddarth, IDBI Manager, Erode for IV Year students at NEC on 4th September 2017.
- Three batch of final year students project selected at first round and presented the same at KCG College of Technology, Chennai for next level namely K.Jawahar & his team presented a project "Developing Software Interface for Hybrid Concrete Slabs-on-Grade", V.Nirmalraj & his team presented a project "Porous Asphalt Road Construction" and Amit Kumar Suman & his team presented a project "Green Light Weight Concrete by Replacing



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Cement with GGBS & Fine Aggregate with Coconut Shell Powder" on 9th Sep 2017.

- One Credit Courses conducted for Second Year students "*Preparation of Building Plans*" at NEC on 10th & 29th September 2017.
- T.Baskar, P.Bhuvaneshwaran & V.Karthikeyan, III Year students attended Seminar on "Role of Engineers in Road Safety" at Ramakrishna Engg. College, Coimbatore on 13th Sep 2017.
- One Credit Courses conducted for Third Year students *"Estimation and Quantity Surveying using MS Excel"* at NEC on 17th Sep 2017.
- P.Vignesh, IV Year student got Internship Training at Sai Sarathy Promoters, Chennai from 18.09.2017 to 28.09.2017.
- 9 Nos. of III Year students attended Workshop on "Waste Management" at Kongu Engg. College, Perundurai on 22nd Sep 2017.
- M.Nandhini & S.Vidhya Bharathi, III Year students attended Seminar on "Innovative Materials and Techniques for Concrete and Steel Structures" at Dr.N.G.P Institute of Technology, Coimbatore on 22nd Sep 2017.
- 7 Nos. of III Year students attended Workshop on "CADD Modeling" at VIT University, Vellore on 22nd & 23rd September 2017.
- P.Ajith & M.E.Ranjith, IV Year students attended Direct Recruitment of Sub Inspector at Bangalore on 24th Sep 2017.

- 7 Nos. of IV Year students applied **Internship** at **CSIR-SERC**, **Chennai** on 26th Sep 2017.
- 100 Nos. of III Year students participated in the "Engineeria Contest" by CADD Centre, Perundurai on 26th September 2017.
- K.P.Muhammed Nisham, J.Kathirvel, S.Kathiravan, S.Erfan & T.Ajith Kumar applied Project Training at National Transportation Planning and Research Centre, Thiruvananthapuram, Kerala on 05th Oct 2017.

EXTRA-CURRICULAR ACTIVITIES

- 3 Nos. of III Year students participated in Anna University Zone XII - Chess at Excel Business School, Komarapalayam on 17th & 18th August 2017.
- 6 Nos. of III & IV Year students participated on Anna University Inter Zone Football Match @ MPNMJ Engineering College, Chennimalai on 5th - 8th September 2017.
- J.Navin & G.Gopalakrishnan, IV Year students participated in Hockey Match, MPNMJ Engineering College, Chennimalai on 25th & 26th September 2017.
- S.Mariyappan, IV Year student participated in "Best Physique" at Mountzion College of Engineering, Pudukkottai on 25th & 26th September 2017.
- Social Club Activities 15 Nos. of III Year students along with S.K.Gowtham &



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S.Pradeepa Faculty Members donate **Clothes** and **Cash** at Ramakrishna Kudil, Trichy on 14th October 2017.

 S.P.Prasanna, IV Year student got Gold Medal in Anna University Inter Zonal Judo Match at KLN College of Engineering, Madurai on 16th & 17th October 2017.

CO - CURRICULAR ACTIVITIES

- N.Nagarajan & R.Rajavignesh, IV Year students got Third Prize in Design Contest at Jay Shriram Group of Institutions, Tirupur on 15th September 2017.
- K.Jeevanantham & S.Karthick, III Year students participated in Paper Presentation at Rathinam Technical Campus, Coimbatore on 25th September 2017.

AWARDS & ACHIEVEMENTS

- 3 Nos. of IV Year students selected for Research Attachment Programme for Internship @ Universiti Teknologi Petronas, Malaysia on 1st July 2017.
- K.Jawahar, M.Monisha, S.Madhumathi, D.Logeshwari & P.Praveen Kumar got SECOND PRIZE out of 1421 projects at Hotel Le Meridien, Coimbatore on 13th September 2017.













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Academic Toppers

Bachelor of Engineering (Civil Engineering-Lateral Entry) (2014-2018 Batch)

(2015-2019 Batch)



Amith Kumar Suman (8.65 GPA)



Naveen Kumar.K (7.91 GPA)



Naveen Kumar.P (7.91 GPA)



Poomugilan.N (7.74 GPA)



Tharunprasad V (7.81 GPA)



Manikandan K (7.52 GPA)



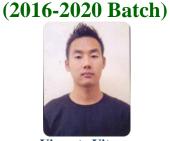
Pradaap S (7.52 GPA)



Selvaraj M (7.43 GPA)



Pynthymmaibor Marthong (8.65 GPA)



Visevoto Vitso (7.91 GPA)



Sinisha Kent (7.91 GPA)

Master of Engineering (Structural Engineering) (2016- 18 Batch) (2017- 19 Batch)



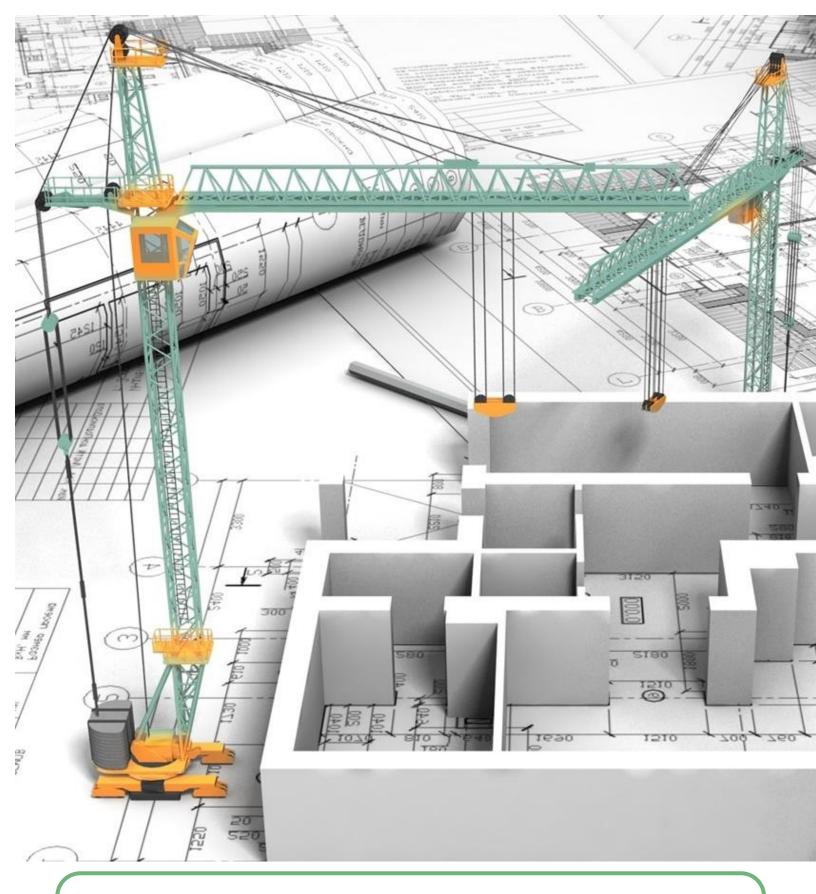




Sowmiya G (8.80 GPA)



Department of Civil Engineering - Concrete News



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