

# ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY

## DEPARTMENT OF CIVIL ENGINEERING

**NEWS LETTER**

*CONTRACTOR' 18*

**JULY-DECEMBER 2018**

**VOL.2, ISSUE NO. 2**



**CONTRACTOR**



## **Department Vision**

To be centre for quality education and research in diverse area of civil engineering, and provide service to nation in terms of nurturing Civil Engineers with a strong social commitment.

## **Department Mission**

M1: To nurture Civil Engineering professionals by providing strong fundamentals and technical skills in civil engineering through effective teaching - learning Methodologies.

M2: To articulate research learning by dissemination of diverse areas of civil engineering in practical applications and undertake professional consultancy services.



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## **Programme Educational Objectives (PEOs)**

PE01: Graduates will demonstrate how to apply fundamental principles of civil engineering to solve engineering problems.

PE02: Graduates will work effectively as individuals and as part of interdisciplinary teams with a sense of social responsibility.

PE03: Graduates shall excel in recent advancements in industry and accomplish professional competence.

## **Program Outcomes**

Civil Engineering Graduates will be able to:

PO 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.



**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO 4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO 5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO 6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO 7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.



Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### **PROGRAMME SPECIFIC OUTCOMES (PSOS)**

PSO1: Apply and develop basic concepts of civil engineering by inculcating the best practices for solving real time problem through feasible solution and to specialize in various academics

PSO2: Ability to provide interdisciplinary skill to meet the social needs through civil engineering and to develop successful professional career along with strong technical, communication and presentation skill.

PSO3: To apply experimental knowledge, analysis, interpretation of data and information to Civil Engineering problems.



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## **FOUNDER'S MESSAGE**

Shri.K.NEELA MARTHANDAN

CHAIRMAN

ROHINI College of Engineering and Technology

I am very glad to know that the students of the Department of CIVIL are bringing out a newsletter to throw light on the activities and achievements of their department. Such activities among the students will enhance their communication skills, technical skills, innovative thinking and knowledge as well. I congratulate the students of department of CIVIL for taking up this task and I wish all the students of CIVIL can have a great future which is ahead.

## **MANAGING DIRECTOR'S MESSAGE**

Dr.N.NEELA VISHNU

MANAGING DIRECTOR

ROHINI College of Engineering and Technology

It is a great pleasure for me that our CIVIL Engineering department is releasing E-Newsletter "CONTRACTOR". As the Managing Director of Rohini College of Engineering and Technology, I feel proud about it. We have taken an oath that we will develop RCET to world class standard and provide an overall development to all the students. We march towards that goal. We are happy that the students of RCET are properly shaping up, facilitating us to meet our goal. I wish all success to the CIVIL students.



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## **PRINCIPAL'S MESSAGE**

Dr.R.RAJESH

PRINCIPAL

ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY

It is my pleasure to congratulate the editorial board on this pleasant occasion of releasing the newsletter. It is great to find a considerable number of winners and participants in co-curricular and extracurricular activities which certainly prove that our staff and students are adequately equipped and possess necessary quality skill-sets to bring such laurels to the institution. I wish that this number may grow in the years to come. I am sure that publishing a newsletter of this sort containing the achievements of the RCET family will be a recognition to them. I wish them all the very best for future endeavors.

## **Head of Department's Message**

Dr.J.Sahaya Ruben

HOD /civil

Rohini College of Engineering and Technology

Dear students of the Department of CIVIL Engineering, I am happy with an immense pleasure to convey my message for newsletter. Such activities will help the professional students to begin and pursue their voyage into new realms of knowledge.

On behalf of our students and faculty, it is my privilege to welcome all. We take pride in our faculty, a team of highly capable and dedicated professionals, most of whom have academic and



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industrial

experience and degrees from leading universities of the India. We provide ample opportunities to our faculty and students, through in house trainings, workshops and trainings outside the college campus for further growth and development.

The main objective of department of CIVIL Engineering is to conduct competitive research and deliver high quality teaching. We want to develop graduate engineers with the skills, knowledge and imagination to help shape our country.

## EDITORIAL MESSAGE

It is an occasion of immense pleasure for the Department of CIVIL Engineering to publish the E-Newsletter “CONTRACTOR”. This newsletter is a digital way for us to communicate with our students, faculty members, alumni and industrial partners.

This newsletter will provide a glimpse of the departmental activities and achievements.

We look forward for more activities and achievements for the department to march towards excellence in the future.

The Editorial board also wants to thanks the Management of the Institute and Head of the department for inspiring us to go forward in publishing this newsletter.

*Editorial Board*

Prof.N.SUTHAN KUMAR (Editor in chief)

Prof.K.AJAN (Associate Editor)





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## About the Department

The department of Civil Engineering started in 2012 with an initial intake of 60 students to the BE(Civil) programme and increased to an intake of 120 students from 2014. The department offers ME (Construction Engineering and Management ) programme from 2013 with an intake of 24 students. The department accommodate outcome-based education which help the student to learn develop and serve to the society. The department has experienced and dedicated faculty with a wide range of specialization in Structural Engineering, Construction Engineering and Management, Environmental Engineering.

The students are provided with lot of opportunities to work on projects and skill development from apart from regular curriculum. The department provide value aided knowledge to nearly 120under graduates ,24 post graduates. The department has well established laboratory facilities to conduct research work on different specialized areas of Civil Engineering. The students of the departments are joined in reputed industries through placements and some of them are turned to be an entrepreneur. The department has a good network of alumini.

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## **NATIONAL LEVEL TECHNICAL SYMPOSIUM ON CIVIL ENGINEERING**

SQUADRA '18 is a National Level Technical Symposium conducted by the Association of Civil Engineers, RCET on 05.02.2018. This Technical Symposium aims at encouraging all participants to explore their technical skills and enhance their conceptual knowledge. We bring you the finest, most advanced of symposiums, the likes of which has never been seen before. The event started with the formal Inaugural function at 9.30 a.m in Opulent Hall, with the presence of our beloved Principal Dr. R. Rajesh, Heads of various Departments. Chief Guest Dr. C. Ganapathy Chettiyar, Former Head Ocean Engineering Department, IIT Madras presided over the function. The function started with Invocation song, followed by the welcome speech given by final year student of Civil Engineering. The Chief guest was introduced by the Head of Civil Engineering Department Prof. Hari Gopala Krishnan, followed by presidential address given by the Principal. Vote of thanks given by the student Secretary.



The session was made more fruitful by the eminent personality Dr.C.Gnanapathy Chettiyar. He shared his experience and the opportunities available for the Civil Engineering students. He insisted the students on acquiring skills in order to sustain in this competitive world. All



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## technical

and non-technical events which rack your brain and take you to a whole new level were conducted in various rooms. Students from different colleges participated. We have total count of 200 students registered for different events and in particularly we have 13 students in Paper Presentation, 57 students for Technical Quiz, 74 students for Brick Wall, 17 students for Poster Design, 15 students for gaming, 24 students in Treasure Hunt and Connections. Valedictory function started at 3.30pm. Students from different colleges shared their experience about SQUADRA'18 followed by Prize Distribution for winner's.

Prizes and Certificates were distributed by the Principal. The function was finally ended by thanking management, Principal, HODs, Faculties, Non-teaching staff, all student coordinators who worked for this event to make this event a grand success.

### Paper Published by bright Students along with Faculty:

Students excelling in academics are collaborated with faculty to carry out paper publication in various forum.

Academic Year 2017-2018			
1	Indhu R Karthika M Manju ZRL Rathipriya T	Study of Increasing Performance by using Concrete with Rice Husk ash with M-Sand	National Conference on Advances in Civil Engineering
2	Akhil Alexander Ari Bala Prakash N Marichamy M Veeramani S	Project Report on Ceramic Tiles Concrete	National Conference on Advances in Civil Engineering

### Industrial Training/ Internship undergone by Students:

During summer vacation, students are permitted to undergo training in reputed industries/companies to get practical exposure to latest technologies. It helps the students to relate theory and its application to real world engineering problems.



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Sl.No	Year	Name of the Student	Period	Name of the Industry
1	II	BalaSowbarnika P Atchaya Jenita C Priya ML Thanga Priya M	11/06/2018 to 15/06/2018	Nuclear power corpotation of India Ltd.Kudan kulam
2	II	ThangaPrapha T Thanusha S Vithya K Dhanya Varsha D Subalakshmi M	11/06/2018 to 15/06/2018	Nuclear power corpotation of India Ltd.Kudan kulam
3	II	Sreejith S Vijesh C S Abdul Ahad A Hashik R Gokul HarikumarAmal Krishna	04/06/2018 to 08/06/2018	Skyline Builders, Cochin

## A ONE DAY WORKSHOP ON APPLICATION OF REMOTE SENSING

On 24.01.2018, MIRAS Techshop' 18 - Department of Civil Engineering in RCET conducted workshop on "Applications of Remote Sensing". Board of Directors, Chief Guest Dr. Satheesh Herbert Singh, M.Sc, Ph.D (Project Consultant) presided over the function. The gathering was welcomed by student Aby Alexander, final year Civil



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Engineering and Chief guest was introduced by Akhil Alexander, final year Civil Engineering. The resource person Dr. Satheesh Herbert Singh presented his experience in the field of Remote Sensing. He insisted on the importance and the application of Remote Sensing. This workshop focussed on Resource Exploration, Environmental Study, Land use, Site Investigation, Archaeological Investigation and Natural Hazards Study. In practice, remote sensing is the standoff collection through the use of a variety of devices for gathering information on a given object or area.



In remote sensing, information transfer is accomplished by use of electromagnetic radiation (EMR). EMR is a form of energy that reveals its presence by the observable effects it produces when it strikes the matter. EMR is considered to span the spectrum of wavelengths from 10-10 mm to cosmic rays up to 1010 nm, the broadcast wavelengths, which extend from 0.30-15mm. This application area included regional planning and site investigation, Terrain Mapping and Analysis, Water Resource Engineering. It also explained about how remote sensing could become a valuable resource of input data to GIS for Civil Engineers in the future. More than 100+ students participated from other colleges and got benefited. Certificate was distributed by Principal Dr. R. Rajesh and thus the workshop was concluded by student Ms. Nivetha, final year Civil Engineering by thanking the supporting pillars for making this workshop successful.





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## Industrial Visits:

The department is associated with various government, quasi-government and private industries in the field of Civil Engineering. Our students visit these companies to get a practical exposures to current work practices.

Sl.No.	Year	Date of Visit	Name of Industry	Scope of Visit
1	III	13/08/2018	Water Treatment Plant , Arumanallur	Water treatment Process
2	II	10/08/2018	Mysore RMC Cement Factory.	Manufacturing Process of cement
3	IV	07/08/2018	Railway Yard	Steel Structures, Placing of Sleepers





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SL.NO	YEAR	NAME OF THE STUDENTS	DURATION	INDUSTRY NAME
1.	II	Prathap Yeanes.J Prajeesh R Vignesh R Vishnu S Thameem Shalidh M Nithish R Raghu Dev C Suvini V Sunilkumar S	28/12/2018 to 31/12/2018	Sai CADD Academy
2.	III	R.Yogeswaran K.M.Ujinkumar A.Anbarasan, Stalin Jeyaprakash, Sudalaimani Lalith Kumar S.Ajith	18/12/2018 To 24/12/2018	Bankers construction, Trivandrum
3.	IV	T Suthakar Karthika M N Ari Bala Prakash Pavithra L M.Dinesh Monisha Lavi	15/12/2018 To 22/12/2018	UPK TECHSERV



- SCHOLARSHIPS
- CAMPUS INTERVIEWS
- RAGGING FREE CAMPUS
- SPORTS QUOTA
- WIFI CAMPUS
- 100% PLACEMENT ASSISTANCE
- FEE CONCESSION FOR MERITORIOUS STUDENTS
- SITUATED ON THE MAIN ROAD



# ROHINI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE and Affiliated to Anna University, (An ISO Certified Institution)

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## UG COURSES

- BE-Civil Engineering
- BE-Computer Science And Engineering
- BE-Electronics And Communication Engineering
- BE-Electrical And Electronics Engineering
- BE-Mechanical Engineering

## PG COURSES

- ME-Communication Systems
- ME-Computer Science And Engineering
- ME-Thermal Engineering
- ME-Construction Engineering And Management



**WE WILL HELP YOU TO UNDERSTAND THE WORLD**