



ROHINI

COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Accredited by NAAC with A+ Grade



DEPARTMENT OF CIVIL ENGINEERING

News letter

CONTRACTOR' 23

January–June 2023

VOL.13, ISSUE NO. 13

Department Vision

To develop knowledgeable and professionally competent civil engineers and to create ethically skilled students for better contribution to the society.

Department Mission

- ✦ To provide technically valuable education for the development of Civil Professionals**
- ✦ To make a platform for the students to explore their potential and critical thinking in research field.**
- ✦ To create awareness and spirit of ethical thoughts in societal concerns for professional development.**

Program Outcomes

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.

PO 3. 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.

PO 9. 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.

FOUNDER'S MESSAGE

**Shri.K.NEELA MARTHANDAN
CHAIRMAN, RCET**

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

PRO CHAIRMAN MESSAGE

**Dr.N.NEELA VISHNU
MANAGING DIRECTOR ,RCET**

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.

**Dr. V.M.BLESSY GEO.,MSC.,PH.D.,
MANAGING DIRECTOR, ,RCET**

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.

PRINCIPAL'S MESSAGE

Dr.R.RAJESH

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.

Head of Department's Message

**Dr.J.Sahaya Ruben
HOD /civil ,RCET**

It gives me immense pleasure to note that response to this newsletter of our department has been overwhelming. The wide spectrum of articles in different sections gives me a sense of pride that our students and professors possess creative potential and original thinking in ample measures. Each article is entertaining, interesting and absorbing. I applaud the contributors for their stimulated thoughts and varied hues in articles contributed by them.

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.

A National Level Technical Symposium

The Department of Civil Engineering of RCET has organized “A National Level Technical Symposium” **LIVIC 2K23** on 17.02.2023 @ Grand Arena. Our honourable Chairman Shri. K. Neelamarthandan, Pro-chairman Dr. N. Neela Vishnu, Managing Director Dr. V. M. Blessy Geo has graced the programme. The function started with Tamilthai Vazhthu and Lighting the Kuttuvilakku by Dignitaries. Our respected Head of Civil Engineering Department Dr. J. Sahaya Ruben welcomed the gathering. Then the presidential address was given by our respected Principal Dr. R. Rajesh. Around 150 students from various colleges have participated in the symposium. The winners of various events were awarded with trophies at the valedictory function



International Conference On Advanced Innovation in Engineering and Technology

The conference was held on May 11 and 12th, 2023. This event was graced by the presence of distinguished guests, including our esteemed Chief Guest along with the Chairman, Pro Chairman, Managing Director, and Principal of our institution. This Conference will explore the new horizon of innovations from distinguished researchers, scientists, and eminent authors in academia and industry working for the advancements in Science, Engineering and Technology from all over the world. ICAIET 2K23 aims to bring together Academicians, Scientists, Research Scholars and Students, to share and disseminate information on knowledge and scientific research works related to materials innovation in engineering and technology. The conference will create a path to establish a research relation for the authors and listeners with opportunities for promoting research and developing technologies.



Industrial Visit

One day Industrial Visit was organized for final year civil department students in Vikram Sarabhai Space Centre on 10/05/2023. Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram, is the lead centre of ISRO responsible for the design and development of launch vehicle technology. The Centre pursues active research and development in the fields of aeronautics, avionics, materials, mechanisms, vehicle integration, chemicals, propulsion, space ordnance, structures, space physics and systems reliability. The Centre undertakes crucial responsibilities of design, manufacturing, analysis, development and testing related to the realisation of subsystems for the different missions. These are sustained by activities towards programme. Planning and evaluation, technology transfer, industry coordination, human resources development and safety. Planning, execution and maintenance of all civil works related to the Centre is also carried out. The Centre depends on administrative and auxiliary services for support. Students are benefitted to see the research centre.



Industrial Visit

One-day Industrial Visit was organized for final year civil department students kodayar hydroelectric project on 02-05-2023. Students get knowledge about power generation process and working of turbine. This industrial visit is very helpful for final year students

