



ROHINI

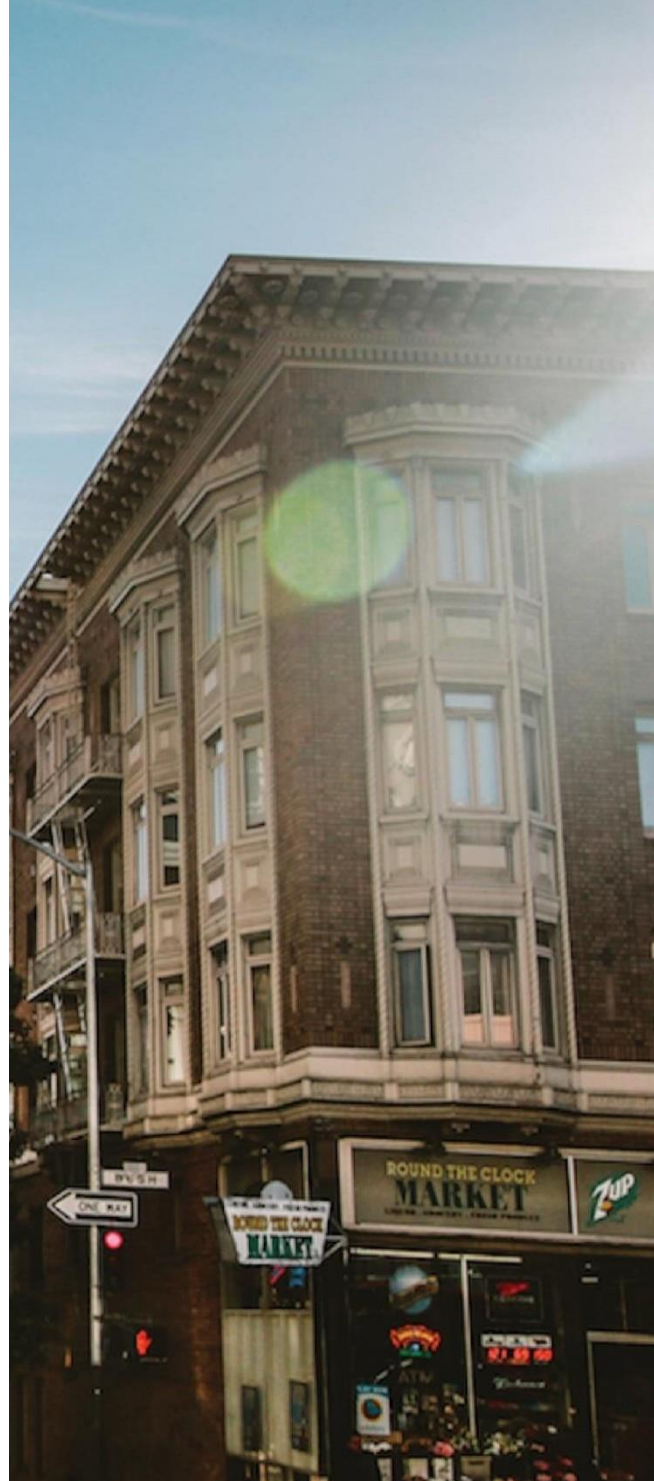
COLLEGE OF ENGINEERING AND TECHNOLOGY

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

DEPARTMENT OF CIVIL ENGINEERING

LIVIC-2018

MAGAZINE





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

- To nurture Civil Engineering professionals by providing strong fundamentals and technical skills in civil engineering through effective teaching - learning Methodologies.
- To articulate research learning by dissemination of diverse areas of civil engineering in practical applications and undertake professional consultancy services.



Programme Educational Objectives (PEOs)

PEO1: Graduates will demonstrate how to apply fundamental principles of civil engineering to solve engineering problems

PEO2: Graduates will work effectively as individuals and as part of interdisciplinary teams with a sense of social responsibility.

PEO3: 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.

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

ROHINI College of Engineering and Technology

I am very glad to know that the students of the Department of CIVIL are bringing out a magazine 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 magazine “LIVIC”. 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.

PRINCIPAL'S MESSAGE

Dr.R.RAJESH

PRINCIPAL

ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY

It is a great pleasure for me that our CIVIL Engineering department is releasing a magazine. The magazine is presenting a glimpse of the growth of the institution on many fronts. The essential purpose of a magazine is to inform, engage, inspire and entertain a diverse readership - including alumni, parents, students, faculty, staff and other friends of the college - by telling powerful stories that present a compelling, timely and honest portrait of the college and its extended family. This magazine has made an earnest attempt in this direction and brought out certain aspects of the college to the eyes of the public so that they may understand and know the college even better. The college has been simply unstoppable in its progress as it has been actively involved in various activities that have brought to light the hidden talents of the college students and staff. The highly qualified and dedicated members of staff have always stood shoulder with the



management and have carried out their duties with a level of commitment. This magazine has recorded achievements of staff members and students of CIVIL Department, competitions won by the hugely talented CIVIL students, innovative projects carried out by CIVIL students with the guidance of CIVIL staff, among others. They stand as a witness to the monumental efforts taken by the management to make the college a centre of excellence in education and research. I wish the management, CIVIL staff and CIVIL students of the college success in their future Endeavor's.

Head of Department's Message

Dr.J.Sahaya Ruben

HOD /civil

Rohini College of Engineering and Technology

I am highly elated and proud to announce that our department of CIVIL is inaugurating the LIVIC Magazine Edition. As our CIVIL department acts as a pioneering department in preparing students to completely globally in their profession and to reach the pioneer levels of in intellectual attainment. I deem that the LIVIC Association and symposium will trigger the talents of the students and kindle the light of innovation and technology. It's a fact that we constant updating to establish ourselves in this revolving dynamic world. I express my heartfelt and sincere thanks to all conveners, colleagues and student is who are the backbone of this endowers. I am happy and wish the technical symposium as well as the release of magazine a grand success.



EDITORIAL MESSAGE

It is an occasion of immense pleasure for the Department of CIVIL Engineering to publish the E- magazine “LIVIC”. The Editorial board of department of LIVIC wants to thanks all the faculty members and students who have made this issue a success by providing an article . This magazine focuses on the recent trends evolved in the field of CIVIL engineering & wants to provide advanced knowledge and awareness among the students about the same. 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 magazine.

Editorial Board

Prof.N.SUTHAN KUMAR (Editor in chief)

Prof.A.ANANTH (Associate Editor)

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 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.

LIST OF STUDENTS PARTICIPATED IN TECHNICAL SYMPOSIUM

SL.NO	Name of the Student	Event	College Name	Prize	Date
1	Arumugam	AUTOCAD	University college of engineering	First	05/02/2018
2	Chenthil Nishanth	Brick bond	Cape institute of technology	Second	05/02/2018
3	Abinaya	code cracking	KNSK engineering college	First	05/02/2018
4	Yogeswaran Arul gino Sam David prince	Model Making	Ponjesly college of engineering	Second	05/02/2018
5	Nishanth Chenthil	Brick bond	Ponjesly college of engineering	First	05/02/2018
6	Vignesh Ajith. S	Bar bending	Ponjesly college of engineering	Second	05/02/2018
7	Yogeswaran Sam David prince	Model Making	NI college of engineering	First	05/02/2018
8	Anslin jenifa	Code cracking	NI college of engineering	Second	05/02/2018
9	Abinaya	Code cracking	NI college of engineering	Third	05/02/2018



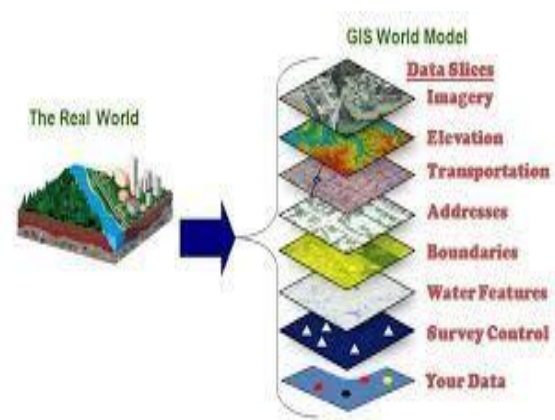
Industrial Training/ Internship undergone by Students

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.

Sl. No	Year	Name of the Student	Month	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 corporation of India Ltd.Kudankulam
2	II	ThangaPraptha T Thanusha S Vithya K Dhanya Varsha D Subalakshmi M	11/06/2018 to 15/06/2018	Nuclear power corporation of India Ltd.Kudankulam
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 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.

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



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.

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 Suvin 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

List of Awards won by bright Students

SL.NO	NAME OF THE STUDENT	INSTITUTION NAME	AWARDS RECEIVED
1	JENITA C	Rohini College of Engineering and Technology	Outstanding Achievements in Anna university Examination
2	ATCHAYA V K	Rohini College of Engineering and Technology	Outstanding Achievements in Anna university Examination
3	GANGA MS	Rohini College of Engineering and Technology	Outstanding Achievements in Anna university Examination

List of Awards won by Faculties

S.No	Name of the Faculty	Organization	Awards Received by Faculties
1.	ASWINI A	Rohini College of Engineering and Technology	Outstanding performance
2.	RAJIV GANDHI R	Rohini College of Engineering and Technology	Outstanding performance
3.	VINOTH KUMAR C	Rohini College of Engineering and Technology	Outstanding performance

Project carried out by bright Students in industries

Academically sound students are encouraged to participate in industrial projects through placement cell of the department. The Projects done by our students in various reputed industries.

S.No	Name of the Student	Title of the project	Industry Name
1.	Sneha R Yamuna M S Priya Dharshini S K Sujiba Devi V	Experimental investigation and performance study of Eco-friendly brick by using waste material	JJ Construction



ALTERNATE BUILDING MATERIALS USED IN CONSTRUCTION WORKS

- Aluminum.
- Bitumen Materials.
- Soil Conditioning Agents.
- Tempered Glass.
- Crumb Rubber.
- Fiber Reinforced Polymer.
- Glass Fiber Reinforced Plastics.
- Bamboo reinforced plastics.

M SAND FOR ECO-FRIENDLY DEVELOPMENT

Demand of fine aggregates increased over the years due to infrastructure development in the state/country. Legitimate supply of river sand is not enough to the demand of market. Sand transportation from rivers to towns is posing problems in environmental pollution and safety. Effective planning, Eco-friendly building material, Green construction technologies are alternatives. occurrence of granitic rocks are huge in Telangana state makes the best place for production of M sand for construction. M sand has enhanced durability, greater strength and overall economy, Ecofriendly for construction works.

The main objective of this paper is to give detailed study on M-sand for eco-friendly construction and sustainable development.



Prof.R.RAJIV GANDHI,AP/CIVIL

10 Masterpieces showing Diversity in Indian Architecture

1. Taj Mahal
2. Lotus Temple
3. Amber Fort, Rajasthan
4. Ajanta-Ellora Caves
5. Chand Baori
6. Sun Temple, Konark
7. Sanchi Stupa
8. Victoria Memorial
9. IIM Ahmedabad
10. Thikse Monastery

ARTISTS BY CIVIL STUDENTS



Mr. SABARI/III CIVIL



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Start Building Your Feature

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

