



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)
(Accredited by NBA-AICTE, New Delhi, Accredited by NAAC with "A" Grade)
Madagadipet, Puducherry - 605 107



DEPARTMENT OF CIVIL ENGINEERING

*INDIAN CONCRETE INSTITUTE
ANNUAL REPORT*

(Academic Year: 2024 to 2025)



Submitted by
Department of Civil Engineering



Preface

The Indian Concrete Institute (ICI) is a premier professional organization in India committed to the advancement of concrete technology and its effective application in the field of civil engineering. Since its inception, the Institute has been actively engaged in promoting excellence in concrete construction through the dissemination of technical knowledge, encouragement of research and innovation, and facilitation of interaction among professionals from academia, industry, and government organizations.

Concrete, being one of the most widely used construction materials, plays a crucial role in the development of infrastructure. Recognizing this significance, the Indian Concrete Institute has consistently worked towards improving the quality, durability, and sustainability of concrete structures. It provides a common platform for engineers, architects, researchers, and students to exchange ideas, share experiences, and discuss emerging trends and challenges in the construction sector.

The Institute organizes a wide range of technical activities, including national and international conferences, seminars, workshops, training programs, and guest lectures. These initiatives aim to enhance the technical competence of professionals and keep them updated with the latest advancements in materials, design methodologies, and construction practices. In addition, ICI publishes technical journals, manuals, and guidelines that serve as valuable resources for practitioners and researchers.



Faculty Coordinator
Dr. V. Murugappan



HoD/CIVIL
Dr. S. Sundararaman



IQAC Coordinator
Dr. Arivalagar A A



Director Cum Principal
Dr. V.S.K. Venkatachalapathy

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ABOUT THE INSTITUTE

Sri Manakula Vinayaga Educational Trust was founded to provide quality and affordable education to the weaker sections of society. The trust established Sri Manakula Vinayagar Engineering College (SMVEC) in 1999. SMVEC is an autonomous institution affiliated to Pondicherry University. It offers 13 undergraduate, 8 postgraduate and 11 Research programs in engineering. SMVEC has been accredited by NAAC with “A” grade and NBA. The institution is also accredited by TATA consultancy services. The college has a good placement record with students getting job offers from top companies in India and abroad. SMVEC students have won many awards and accolades for their academic achievements. To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

Vision

- To nurture the cornerstone of excellence in engineering education and drive innovation by seamlessly integrating the fundamentals of Science and Humanities

Mission

M1: Quality Education : To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.

M2: Research and Innovation : To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.

M3: Employability and Entrepreneurship : To inculcate the employability and entrepreneurial skills through value and skill based training.

M4: Ethical Values : To instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.



ABOUT THE DEPARTMENT

The Department of Civil Engineering is a premier department that offers high-quality UG and Ph.D. programs. The UG program B.Tech – Civil Engineering is accredited by the National Accreditation Board, AICTE–New Delhi, and has a strong placement record with graduates widely recognized by leading construction, infrastructure, and consultancy firms. The department’s alumni are highly sought-after by employers in the civil engineering and infrastructure sector. Our department contributes significantly to achieving national development goals through a strong commitment to sustainable infrastructure, innovative construction practices, and responsible engineering solutions, meeting the demands of a rapidly developing and urbanizing world.

Vision

We envision a world where the civil engineering department will be a home to an intellectual community with good quality education embedded with practical knowledge by inculcating research, strong social commitment and ethical values from its students, staffs and alumni.

Mission

Quality Education: To fulfill the requirements of construction industry, Civil Engineering profession and rural community through dissemination of technical services.

Practical Knowledge: To impart quality and real-time education to the students with the knowledge & skills needed for Civil Engineering practice

Work Efficiency: To encourage research, development and consultancy through sustained interaction with industry & research organization.

Societal issues: To develop graduates to compete at the global level to deal with modern issues.

Moral & Ethical: To insist ethical values and professionalism among the students.

Programmes offered

- B.Tech - Civil Engineering
- Ph.D - Civil Engineering



“Shaping a stronger world through structures, sustainability, and smart infrastructure.”

ABOUT ICI

The Indian Concrete Institute (ICI) is a premier professional body in India dedicated to the growth and development of concrete technology and its applications in the construction industry. Established with the vision of promoting excellence in concrete construction, ICI serves as a bridge between academia, industry, and research organizations. ICI aims to advance knowledge in the field of concrete by encouraging research, innovation, and the adoption of modern construction practices. It provides a platform for engineers, architects, academicians, and students to share technical expertise and stay updated with the latest developments in materials, design, and construction techniques. The Institute conducts various technical activities such as seminars, workshops, conferences, training programs, and guest lectures at both national and regional levels. These programs are designed to enhance professional skills and promote best practices in concrete technology.

Objectives of ICI

The primary goal of ICI are as follows:

- To promote and advance the science and technology of concrete and its applications in the construction industry.
- To encourage research, innovation, and development in the field of concrete materials, design, and construction practices.
- To disseminate technical knowledge through seminars, workshops, conferences, training programs, and publications.
- To provide a platform for interaction among engineers, architects, academicians, researchers, and industry professionals.
- To improve the quality, durability, and safety of concrete structures through best practices and modern techniques.



LIST OF EVENTS

S. No	Title of the Events
01	Guest Lecture on “Effective Strategies for GATE Exam Preparation”
02	Guest Lecture on “Government Job Opportunities for Civil Engineering Graduates ”
03	Hands on Training on “Digital Surveying and Mapping Techniques”

Guest Lecture on “Effective Strategies for GATE Exam Preparation”

A guest lecture on “Effective Strategies for GATE Exam Preparation” was organized to help students understand the approach required to succeed in the GATE examination. The session covered subject-wise preparation strategies, important topics, and exam patterns.

The speaker discussed time management techniques, revision methods, and problem-solving approaches. Tips on selecting study materials, practicing previous year question papers, and maintaining consistency were also shared. The importance of mock tests and self-assessment was emphasized to improve performance.

- Total Number of Participants : 60
- Resource Person: Dr.P.Dinesh,AssistantProfessor (Grade II),Civil Engineering Department, NIT Silchar, and India.
- Date : 15.07.2024

Objective of the Activity

- To guide students in preparing effectively for the GATE examination.
- To provide strategies for time management and subject-wise preparation.
- To create awareness about the importance of GATE for higher studies and career opportunities.
- To motivate students to adopt a structured and disciplined study plan.

Outcome of the Activity

- Students gained clarity on GATE exam preparation strategies.
- Learned effective time management and study planning techniques.
- Understood the importance of regular practice and mock tests.
- Motivated to prepare systematically for competitive examinations

PHOTO GALLERY

SRI MANAKULA VINAYAGAR
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MADAGADIPET, PUDUCHERRY - 605 107

DEPARTMENT OF CIVIL ENGINEERING

with
ICI Indian Concrete Institute (ICI), Puducherry Centre

Jointly Organizes
A Guest Lecture on
Effective Strategies for Gate Exam Preparation

Time : 11.00am
Date : 15/07/2024

**Venue: Seminar Hall,
SMVEC**

Dr. P. Dinesh,
Assistant Professor (Grade-II),
Department of Civil Engineering,
National Institute of Technology Silchar, India

MHRD'S INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

NAAC
INTERNAL QUALITY ASSURANCE CELL

PHOTO GALLERY



Dr.S.Sundararaman HOD / CIVIL extended a warm welcome to the gathering.



Dr. P. Dinesh, Assistant Professor, NIT Silchar, India, delivered the session

Guest Lecture on “Government Job Opportunities for Civil Engineering Graduates ”

A guest lecture on “Government Job Opportunities for Civil Engineering Graduates – 2024” was organized to inform students about career prospects in the public sector. The session covered various government departments and organizations offering opportunities for civil engineers.

The speaker explained different competitive examinations such as GATE, UPSC Engineering Services, SSC, and state-level recruitment exams. Details regarding eligibility criteria, selection procedures, and preparation strategies were discussed. The importance of time management, consistency, and focused preparation was also emphasized.

- Total Number of Participants : 60
- Resource Person:Ar.Hemalatha, Architect, Puducherry.
- Date : 26.08.2024

Objective of the Activity

To create awareness about sustainable infrastructure practices.

To understand the importance of environmental protection in construction.

To promote the use of eco-friendly materials and resource-efficient technologies.

To encourage students to adopt sustainable engineering solutions.

Outcome of the Activity

- Students gained awareness of government job opportunities in civil engineering.
- Understood various competitive exams and recruitment procedures.
- Learned strategies for effective preparation.
- Motivated to pursue careers in the public sector

| POSTER



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

**SILVER JUBILEE CELEBRATION****DEPARTMENT OF CIVIL ENGINEERING**

In Association with

**Indian Concrete Institute (ICI),
Puducherry Centre**

Organizes

Guest Lecture on

**“Government Opportunities for Civil Engineering
Graduates”**

Time: 03:30 PM
Date: 26/08/2024



**Venue: Seminar Hall,
SMVEC**

Er. K. Vijay,
Assistant Engineer, PWD, Vikravandi

PHOTO GALLERY



Dr.S.Sundararaman HOD / CIVIL honored the guest Mr.K.Vijay, PWD, Puducherry



Mr. K. Vijay, Assistant Engineer, PWD, Puducherry, addressing the session

Hands-on training on “Digital Surveying and Mapping Techniques ”

A hands-on training session on “Digital Surveying and Mapping Techniques” was conducted to equip students with practical exposure to modern surveying methods. The session covered the use of advanced instruments such as Total Station, GPS, and other digital surveying tools.

Students were trained in field data collection, measurement techniques, and mapping procedures. The session also included data processing and interpretation, enabling students to understand real-time applications in civil engineering projects.

- Total Number of Participants : 60
- Resource Person: Er. N. Pavithran, Senior Engineer, Step Land Survey Consultants, Puducherry
- Date: 26/08/2024

Objective of the Activity

- To provide practical knowledge of modern surveying techniques.
- To familiarize students with digital surveying instruments and tools.
- To enhance skills in data collection and mapping technologies.
- To bridge the gap between theoretical knowledge and field practice.

Outcome of the Activity

- Students gained practical knowledge of digital surveying techniques.
- Developed skills in handling modern surveying instruments.
- Improved understanding of data collection and mapping processes.
- Enhanced confidence in applying surveying techniques in real-world scenarios.

POSTER

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Silver Jubilee Celebrations...

 **Internal Quality Assurance Cell**

DEPARTMENT OF CIVIL ENGINEERING

with

 **Indian Concrete Institute (ICI), Puducherry Centre**

Organizes

HANDS ON TRAINING

in

Digital Surveying and Mapping Techniques

 **Time : 10.00am**
Date : 05/03/2025

 **Venue: Seminar Hall,
SMVEC**



Er. N. Pavithran,
Senior Engineer,
Step Land Survey Consultants,
(SURVEYORS & CIVIL ENGINEERS)
Puducherry

PHOTO GALLERY



Mr. K. Srinivasan, Assistant Professor, Civil Department Honouring the Chief Guest Er. N. Pavithran, Senior Engineer, Step Land Survey Consultants, Puducherry



Students practicing with Total Station equipment during the hands-on training session

OVERALL SUMMARY OF AY 2024-25

During the academic year 2024–2025, the department organized a series of guest lectures, seminars, and hands-on training programs aimed at enhancing students' technical knowledge, practical skills, and career readiness. The events focused on key areas such as sustainable infrastructure development, modern concrete technologies, digital surveying techniques, GATE exam preparation, government job opportunities, and career guidance for civil engineers.

Expert speakers from academia and industry delivered insightful sessions, providing students with exposure to current trends, advanced technologies, and real-world applications in civil engineering. The hands-on training programs, particularly in digital surveying and mapping, helped students gain practical experience and improve their technical competencies.

Additionally, career-oriented sessions guided students on higher studies, competitive examinations, and employment opportunities in both public and private sectors. These programs played a vital role in developing students' awareness of professional pathways and the skills required to succeed in the industry.

Overall, the activities conducted during the academic year 2024–2025 were highly beneficial in bridging the gap between theoretical knowledge and practical application, fostering innovation, and preparing students for future academic and professional challenges.

