



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

ICI ANNUAL REPORT

(Academic Year: 2022 to 2023)



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.



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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, PG, 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 “Architecture and Civil Engineering – An Interface”
02	Guest Lecture on “Importance of Geotechnical Investigation in construction Industries”
03	Seminar on “Estimation Estimation Costing and Valuation”

Guest Lecture on “Architecture and Civil Engineering – An Interface”

A guest lecture on “Architecture and Civil Engineering – An Interface” was organized to emphasize the close relationship between architectural design and civil engineering in modern construction. The session highlighted how both fields must work together from the initial planning stage to the final execution to achieve structures that are aesthetically pleasing, structurally sound, and functionally efficient. The speaker discussed key aspects such as space planning, load distribution, material selection, and design coordination, explaining how each discipline contributes to the overall success of a project.

The lecture also focused on real-world applications and challenges faced during construction, where effective communication between architects and civil engineers plays a crucial role. Concepts related to sustainability, environmental considerations, and innovative construction techniques were also addressed. The session provided valuable insights to students, helping them understand the importance of interdisciplinary collaboration and preparing them for practical situations in the construction industry.

- Total Number of Participants : 60
- Resource Person: Ar. R. Ramesh Babu, Principal Architect, Vedic Designs, Puducherry.
- Date : 13.06.2022

Objective of the Activity

- To understand the relationship between architecture and civil engineering in construction projects.
- To highlight the importance of coordination between architects and civil engineers.
- To provide knowledge on integrating aesthetics with structural safety and functionality.
- To explain the roles and responsibilities of both disciplines in planning and execution.
- To introduce real-world challenges and solutions in interdisciplinary projects.

Outcome of the Activity

- Students gained a clear understanding of the collaboration between architecture and civil engineering.
- They learned the importance of integrating design aesthetics with structural stability.
- Students developed awareness of real-world construction practices and challenges.
- They understood the need for effective communication and coordination between professionals.
- Knowledge about sustainable design and modern construction techniques was enhanced.

PHOTOS

**Dr.S.Sundararaman, Head of Civil Department Honouring the chief guest
Ar. R. Ramesh Babu,Principal Architect,Vedic Designs,Puducherry**

Guest Lecture on “Importance of Geotechnical Investigation in construction Industries”

A guest lecture on “Importance of Geotechnical Investigation in Construction Industries” was organized to provide students with an understanding of the crucial role of soil investigation in construction projects. Geotechnical investigation is an essential step carried out before the design and construction of any structure, as it helps determine the physical and engineering properties of soil and rock at a site. Proper investigation ensures the safety, stability, and long-term performance of structures.

The lecture focused on various methods of soil exploration such as field tests, laboratory testing, and site analysis. The speaker explained how geotechnical data is used in selecting suitable foundation types, assessing bearing capacity, and preventing potential failures such as settlement or slope instability. The session provided valuable practical insights and emphasized the importance of thorough investigation for safe and economical construction practices.

- Total Number of Participants : 60
- Resource Person: Er. N.J.L. Ramesh @ Ashhirwaad Ramesh, CEO, Ashhirwaad Associates, Pondicherry.
- Date : 21.11.2022

Objective of the Activity

- To introduce the concept of geotechnical investigation in construction projects.
- To understand the importance of soil and site analysis before construction.
- To explain various methods of soil exploration such as field and laboratory tests.
- To highlight the role of geotechnical data in foundation design and stability analysis.
- To create awareness about preventing construction failures through proper investigation.

Outcome of the Activity

- Students gained knowledge about soil properties and site investigation techniques.
- They understood the importance of geotechnical data in foundation design.
- Awareness of field tests and laboratory analysis was improved.
- Students learned how to identify and avoid potential construction risks.
- The lecture enhanced their practical understanding of safe and economical construction practices.

PHOTOS



Dr.S.Sundararaman, Head of Civil Department Honouring the chief gues Er. N.J.L. Ramesh @ Ashhirwaad Ramesh, CEO, Ashhirwaad Associates, Pondicherry.

Seminar on “Estimation Estimation Costing and Valuation”

A seminar on “Estimation, Costing and Valuation” was organized to provide students with fundamental knowledge of financial aspects in construction projects. Estimation and costing are essential processes that help in determining the quantity of materials, labor, and overall expenses required for a project, while valuation deals with assessing the economic worth of a property. These concepts play a vital role in planning, budgeting, and decision-making in the construction industry.

The seminar focused on various methods of estimation, types of costs, rate analysis, and principles of valuation. The speaker explained practical approaches used in preparing estimates and evaluating properties, along with real-world examples. The session enhanced students’ understanding of cost management and financial planning in civil engineering projects.

- Total Number of Participants : 60
- Resource Person: Er. K.Tharsinee,Asst. Technical Manager,Stiffener Property Valuers & Consultancy PVT.LTD, Puduchery
- Date : 20.05.2023

Objective of the Activity

- To introduce the concepts of estimation, costing, and valuation in construction.
- To understand the methods of quantity estimation and rate analysis.
- To explain the importance of budgeting and cost control in projects.
- To provide knowledge about valuation principles and property assessment.
- To enhance awareness of financial planning in construction projects.

Outcome of the Activity

- Students gained knowledge about preparing estimates and cost calculations.
- They understood the importance of cost control and budgeting.
- Awareness of valuation methods and property assessment was improved.
- Students developed practical skills in quantity takeoff and rate analysis.
- The seminar enhanced their overall understanding of financial management in construction.

PHOTOS



**Er. K.Tharsinee,Asst. Technical Manager,Stiffener Property Valuers & Consultancy PVT.LTD,
Puduchery addressing to students**

OVERALL SUMMARY OF AY 22-23

- During the academic year 2022–2023, a series of guest lectures and a seminar were organized to enhance students' understanding of key civil engineering concepts and their practical applications.
- The sessions focused on interdisciplinary collaboration between architecture and civil engineering, the importance of geotechnical investigation for safe and stable construction, and essential financial aspects such as estimation, costing, and valuation.
- These activities provided students with valuable insights into real-world construction practices, including design coordination, soil analysis, foundation safety, budgeting, and cost control.

Overall, the programs contributed to improving students' technical knowledge, practical skills, and awareness of industry requirements, thereby preparing them for professional roles in the construction sector.

