



**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*

***BAMBOO SOCIETY OF INDIA  
ANNUAL REPORT***

*(Academic Year: 2022 to 2023)*



Submitted by  
*Department of Civil Engineering*



## Preface

The Bamboo Society of India (BSI) is a national-level organization dedicated to the promotion and development of bamboo as a sustainable and eco-friendly resource. It plays an important role in creating awareness about the economic, environmental, and social benefits of bamboo across various sectors.

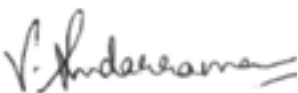
BSI works towards encouraging the use of bamboo in construction, design, and rural development by promoting research, innovation, and skill development. It highlights bamboo as a versatile material that supports sustainable living and contributes to green building practices.

The organization conducts seminars, workshops, and awareness programs to educate students and professionals about the applications of bamboo and the importance of environmental conservation. It also provides a platform for experts, designers, and engineers to share knowledge and explore innovative uses of bamboo.

Overall, BSI contributes to sustainable development by promoting eco-friendly practices, encouraging the use of renewable resources, and inspiring individuals to adopt environmentally responsible approaches in their professional and personal lives.



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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 BSI

The Bamboo Society of India (BSI) is a national-level organization dedicated to the promotion, development, and sustainable utilization of bamboo as a versatile and eco-friendly resource. It works towards creating awareness about the economic, environmental, and social importance of bamboo in sectors such as construction, handicrafts, rural development, and green technology.

BSI serves as a platform for professionals, researchers, artisans, and students to share knowledge, exchange ideas, and explore innovative applications of bamboo.

The organization actively promotes research, skill development, and the adoption of modern techniques to enhance the use of bamboo in various industries.

### Objectives of BSI

**The primary goal of BSI are as follows:**

- To encourage the use of bamboo as a sustainable and renewable material in construction, design, and other sectors.
- To support eco-friendly practices and contribute to environmental conservation through the use of bamboo.
- To promote research and development in bamboo technology and its modern applications.
- To conduct training programs, workshops, and awareness activities for students, professionals, and artisans.
- To spread awareness about the benefits and potential of bamboo among society.
- To enhance livelihood opportunities by promoting bamboo-based industries and craftsmanship.



## LIST OF EVENTS

S. No	Title of the Events
01	Guest Lecture on “IPR Patent”
02	Guest Lecture on “Accelerated bridge construction”

## Guest Lecture on “IPR Patent”

A guest lecture on “IPR Patent” was organized to provide students with an understanding of Intellectual Property Rights (IPR) and the significance of patents in protecting innovations. The session introduced the basic concepts of IPR, including patents, copyrights, trademarks, and designs, with a special focus on patents.

The speaker explained the importance of safeguarding new ideas and inventions, especially in the fields of engineering and technology, to ensure recognition and exclusive rights for creators. The lecture also covered the process of filing a patent, including documentation, application procedures, and evaluation stages.

Real-world examples were discussed to illustrate how patents contribute to innovation and economic growth. The session enhanced students' awareness of legal aspects related to inventions and encouraged them to develop innovative ideas while understanding the importance of protecting their intellectual contributions.

- Total Number of Participants : 80
- Resource Person: Dr. P. Jayakumar, Proprietor – JS Machine Tools, Madurai
- Date : 21.06.2022

### Objective of the Activity

- To introduce the concept of Intellectual Property Rights (IPR) and its importance.
- To provide knowledge about patents and their role in protecting inventions.
- To explain the process of patent filing and registration.
- To create awareness about legal rights of inventors and innovators.
- To encourage students to develop innovative ideas and protect them legally.

### Outcome of the Activity

- Students understood the importance of IPR and patents in innovation.
- They gained knowledge about the patent application and approval process.
- Awareness of legal protection for inventions was improved.
- Students were motivated to think creatively and innovate.
- The session enhanced their understanding of real-world applications of patents.

## PHOTOS



**Dr.P.Jayakumar,Proprietor – JS Machine Tools,Madurai addressing to students**

## Guest Lecture on “Accelerated bridge construction”

A guest lecture on “Accelerated Bridge Construction” (ABC) was organized to introduce students to modern techniques used in rapid bridge construction. Accelerated Bridge Construction is an innovative approach that focuses on reducing the overall construction time while maintaining quality, safety, and durability. With increasing traffic demands and the need for quick infrastructure development, ABC has become an essential method in the field of civil engineering.

The lecture aimed to provide insights into advanced construction methods such as prefabrication, modular components, and the use of high-performance materials. It highlighted how these techniques help minimize traffic disruption, improve project efficiency, and enhance safety during construction.

The session served as a valuable learning experience, helping students understand the importance of adopting modern construction practices in real-world bridge engineering projects.

- Total Number of Participants : 80
- Resource Person: Dr.U. Johnson Alengaram, Associate Professor, Director, Department of Civil Engineering, Faculty of Engineering, University of Malaya, Kuala Lumpur, Malaysia.
- Date : 14.07.2022

### Objective of the Activity

- To introduce the concept of Accelerated Bridge Construction (ABC) and its importance in modern infrastructure.
- To understand the techniques used to reduce construction time, such as prefabrication and modular construction.
- To explain the advantages of ABC in minimizing traffic disruption and improving safety.
- To provide knowledge on modern materials and equipment used in fast-track bridge construction.
- To create awareness about cost efficiency and project management in accelerated construction methods.

### Outcome of the Activity

- Students gained an understanding of accelerated bridge construction techniques.
- They learned how construction time can be reduced without compromising quality.
- Awareness of modern technologies and prefabrication methods was improved.
- Students understood the importance of efficient planning and execution in infrastructure projects.
- The lecture enhanced their practical knowledge of bridge engineering and innovation.

## PHOTOS



**Dr.U. Johnson Alengaram, Associate Professor, Director, Department of Civil Engineering, Faculty of Engineering, University of Malaya, Kuala Lumpur, Malaysia addressing to students**

## OVERALL SUMMARY OF AY 2022-23

During the academic year 2022–2023, guest lectures on Intellectual Property Rights (IPR) and Accelerated Bridge Construction (ABC) were conducted to enhance students' knowledge in innovation and modern construction techniques. The IPR session created awareness about patents, legal rights, and the importance of protecting inventions, while encouraging creativity among students.

The lecture on Accelerated Bridge Construction introduced advanced methods such as prefabrication and modular construction, focusing on reducing construction time while maintaining quality and safety.

Overall, these sessions improved students' understanding of innovation, legal aspects, and modern engineering practices, preparing them for real-world challenges.

