

**A**

**REPORT OF  
ONE DAY VISIT TO**

**NIRMAANA 2024**

**SMART AND SUSTAINABLE CONSTRUCTIONS WITH  
FUTURISTIC TECHNOLOGIES**

**ON**

**13<sup>TH</sup> SEPTEMBER 2024**

**ORGANIZED**

**BY**

**DEPARTMENT OF CIVIL ENGINEERING**

**K.S.SCHOOL OF ENGINEERING AND  
MANAGEMENT**

**#15, Near Vajrahalli, Mallasandra, Kanakapura Road,**

**Bengaluru-560109**

# Report

The Department of Civil Engineering, K S School of Engineering and Management had organized a One Day visit to “NIRMAANA 2024”, **Smart And Sustainable Constructions With Futuristic Technologies** on 13<sup>th</sup> of September 2024 for third semester and 7<sup>th</sup> semester students. 20 students along with 3 faculty attended the visit.

NIRMAANA 2024 was organized by Board of Governors of INSTRUCT and organizing committee of NIRMAANA 2024 conference from 12<sup>th</sup> to 13<sup>th</sup> September 2024 Prestige Srihari Khoday centre for performing arts, Next to Forum Mall, Prestige Falcon city, Konanakunte, Bengaluru, Karnataka at Bengaluru, India. NIRMAANA 2024 is an exhibition showcasing the

INSTRUCT aims to meet the strongly felt need by organizing NIRMAANA 2024- Conference on Smart And Sustainable Constructions With Futuristic Technologies which is designed to share insights into these technologies and the nitty gritty of their applications, through internationally renowned experts in respective fields.

## **Objectives of the Visit:**

- To make the students aware of concrete 3D printing in construction industry all over the world.
- To make the students aware of the modern equipments, tools and latest techniques used in the construction industry.

## **Outcomes of the Visit:**

- Students were exposed to the different types of materials and concrete used in the construction industry all over the world.
- They learned about the concrete 3D printing used in the construction industry.
- They learned about the latest techniques, various machineries, modern tools and equipment used in the construction industry.

PHOTOS OF THE VISIT



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Empowering India's Construction

**3D Concrete Printed Buildings - by I&T**

Post office, Bangalore 1000 sqft

EPCC PROJECTS | MHC TECH MANUFACTURING | SERVICES

**LARSEN & TOUBRO**

**INSTRUCT**  
Empowering India's Construction

**nirmaana Bengaluru 2024**

2-Day International Conference  
Smart and Sustainable Constructions  
with Futuristic Technologies

**INSTRUCT**  
Empowering India's Construction

**3DCP - How The Technology Works ?**

Inputs

- 3D Auto cad Drawing
- Initial Co-ordinate Reference (X,Y,Z)
- 3D Printable Concrete Feeding

Construction Process

- As per 3D Model input the structure is printed layer by layer, without supporting formwork system.
- The robotic printer completely takes over the construction process.
- Print speed: 100mm / hour
- Print height: 100mm to 1000mm

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**nirmaana Bengaluru 2024**

2-Day International Conference  
Smart and Sustainable Constructions  
with Futuristic Technologies

GM  
Faculty - Incharge.

Wakella  
Head of the Department.  
Professor & Head  
Department of Engineering  
Group of Institutions  
Planning & Management