

## About Symbiosis Institute of Technology:

Symbiosis Institute of Technology, a constituent of Symbiosis International University was established in the year, 2008 and currently offers B. Tech programmes in Civil Engineering, Computer Science and Engineering, Electronics & Telecommunication Engineering, Artificial Intelligence and Machine learning, Robotics and Automation, Mechanical Engineering and M.Tech programmes in Computer Aided Design and Manufacture, Artificial Intelligence and Machine learning, Computer Science and Engineering, Research programmes leading to Ph. D. Degree were introduced in Faculty of Engineering of Symbiosis International University in 2010.

Symbiosis Institute of Technology has emerged as one of the top engineering colleges in past few years in western India. With constant pursuit of high-quality research amongst its faculty members, SIT has received various funded research projects from national and international agencies such as European Union, Department of science and technology, Science and Engineering Research Board etc. SIT houses research centers including Symbiosis Center for Applied Artificial Intelligence, Symbiosis Center for Nanoscience and Nanotechnology, Symbiosis Center for Medical Image Analysis and Symbiosis Center for Waste Resource Management.

## Civil Engineering Department @SIT

The Department of Civil Engineering offers B.Tech in Civil Engineering with an intake of 60. The department aims at imparting a high quality education and producing industry ready professionals in Civil Engineering. To realize this aim, the department has recruited highly qualified and experienced faculty and set up labs which have latest equipment for teaching, demonstration and research. To ensure the relevance of curriculum, professionals from industry and distinguished professors from IITs and other renowned institutions are actively involved in curriculum development, guest lectures and project evaluations. The curriculum also includes multidisciplinary courses aimed at producing professionals with broader domain of knowledge.

## SIT's Organizing committee:

**Chief Mentor:** Dr. Ketan Kotecha, Director, SIT

### Mentor:

Dr. Nitin Khedkar, Dy Director Administration, SIT

Dr. Arundhati Warke, Dy Director, Academics, SIT

### Organizing member:

Dr. Sanjay Kulkarni

Prof. Vaishnavi Dabir

Prof. Vinay Jatti

Prof. Humera Khanum

Prof. Amar Jain



## About Bentley Systems:

The world-leading provider of Infrastructure Engineering Software

Bentley Systems (Nasdaq: BSY) is the infrastructure engineering software company. We provide innovative software to advance the world's infrastructure – sustaining both the global economy and environment. Our industry-leading software solutions are used by professionals, and organizations of every size, for the design, construction, and operations of roads and bridges, rail and transit, water and wastewater, public works and utilities, buildings and campuses, mining, and industrial facilities. Our offerings include MicroStation-based applications for modeling and simulation, ProjectWise for project delivery, AssetWise for asset and network performance, and the iTwin platform for infrastructure digital twins. Bentley Systems employs more than 4,500 colleagues and generates annual revenues of approximately \$1 billion in 186 countries.

## About Bentley Education:

Bentley Education program encourages the development of future infrastructure professionals for careers in engineering, design, and architecture by providing student and educator learning licenses of popular Bentley applications at no cost through the new Bentley Education portal. The program is designed to create world-class talent that can rise to the challenges of improving quality of life and positively changing the world using infrastructure engineering software applications and proven learnings. The Bentley Education program will also help students develop digital skills that are critical for a qualified talent pipeline to support infrastructure growth and resilience worldwide.

## Bentley's Organizing committee:

### Mentor:

Zeljko Djuretic, Senior Director, Bentley Education

Mohit Bradoo, Director Bentley Education

### Organizing member:

Suparna Khan, Senior Education Content Manager, Bentley Education



## Symbiosis Teaching and Learning Resource Centre (STLRC)

### Four-Day Faculty Development Programme on

## “Digital Twins Transforming the Infrastructure Industry”

20<sup>th</sup> March 2023 to 23<sup>rd</sup> March 2023

## Call for Registration and Participation

### Coordinator

**Dr. Sayali Apte**

Asst. Professor, Civil Engineering, SIT Pune

**Mr. Arun Kumar**

Global Manager, Bentley Systems

### Convener

**Dr. Sayali Sandbhor**

Head, Civil Engineering, SIT Pune

**Mr. Sudipto Goswami**

Director, Bentley Education

### Organized by

**Department of Civil Engineering**  
Symbiosis Institute of Technology, Pune



## In association with our Technology Partner



## Overview of the FDP:



To bridge the gap between Industry & Academia and creating a talent pool of graduate students who will be ready to take on the challenges in the present infrastructure industry, we are planning to organize an FDP for young faculties of degree and diploma.

### Objective:

- Latest industry trends and the emerging digital workflow for efficient engineering practices.
- Alignment with **BIM** and **Digital Twin** in infrastructure project lifecycle with iTwin technology stack.
- Aligning the curriculum to industry standards and best practices.

### Topics to be covered:



**OpenRoads Designer**



**OpenFlows WaterGEMS**



**OpenFlows SewerGEMS**

- Overview of Digital Twin implementation with iTwin technology stack
- Applications to Design & Build smart & resilient water and wastewater systems
- Digital solutions for Mobility Industry (Roads, Rails & Bridges)

**All Registered faculty members will get certificate of participation/ completion along with ONE FULL YEAR FREE ACCESS OF BENTLEY'S SOFTWARE!**

## FDP Plan:

### Day 1 at SIT Pune

- The roadmap to digitalize curriculum to bridge the skill gap in Indian Infrastructure Industry
- Digital Twins in the future of Infrastructure
- iTwin experience an Industry Perspective
- BIM & Digital Twin in Academic curriculum
- Innovation in curriculum with Digital Twin technology
- Digital Twin implementation with iTwin technology stack

### Day 2 at SIT Pune (Workshop mode\*)

Solutions to Water & Sewer Networks: Developing skilled resources considering the huge investments from Govt of India on Jal Jeevan Mission & Amrut.

### Day 3 at Bentley Systems Office, Cybercity, Magarpatta City, Pune (Workshop mode\*)

Mobility Industry – Digitalization in workflow for Roads, Rails & Bridges. Bridging the gap between curriculum and the technology used by the industry.

### Day 4 at Sandipani Leadership Development Centre, SIU

Instructional design and Hands on workshop -Hands-on workshop for curriculum design

*\*Carrying own laptops is highly recommended for hands-on sessions.*

### Eminent speakers:

**Mr. Rahul Patil,**

Vice President, iTwin Enablement, Bentley Systems

**Mr. Iain Miskimmin,**

Advisor for National Digital Twin, UK, Enterprise Success Advisor, & Author of Plain Language BIM

**Prof. Jurelionis Andrius,**

Professor, Kaunas University of Technology, Lithuania

**Prof Ashwin Mahalingam,**

Professor, Building Technology and Construction Management division, Civil engineering department IIT-Madras

**Dr. Madhumathi A.,**

Professor & Director, School of Architecture & Planning, VIT, Vellore

**Mr. Sudipto Goswami**

Director, Bentley Education

**Dr. Sophia Gaikwad,**

Head, Symbiosis Teaching Learning Resource Centre, Symbiosis International University

## FDP Registration details:

### Registration is open for:

Faculty members of diploma schools and engineering colleges working in Civil engineering and allied departments.

**Registration fee:** Rs. 1000/- for 4 days FDP including lunch and tea/ coffee on all four days.

### How to Apply:

You can apply by registering yourself through Google form LINK: <https://forms.gle/Phu2XZEXWTU65bgr6>

### Selection and Intimation:

On receipt of the registration form, participants will be sent confirmation of their participation through email immediately.

### Accommodation:

Accommodations are available at Symbiosis's on campus Sandipani Hometel at Rs. 2500/- +12% GST that includes complimentary breakfast. Participant can avail the accommodation and dinner facility on self-payment basis. Details of the accommodation can be checked at <https://www.sandipanihometel.com/>

### Google Map link for attending FDP

DAY 1-2: AT SIT: <https://goo.gl/maps/yXF8SMML6UEXuAuP6>

DAY 3: AT BENTLEY OFFICE:

<https://goo.gl/maps/QTzwwymXYZutPLbv9>

DAY 4: AT SANDIPANI LEADERSHIP DEVELOPMENT CENTRE:

<https://goo.gl/maps/bAnmDui2JZKPTKrj9>

### Institute address and contact number:

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**Mr. Mr. Arun Kumar, FDP Coordinator**

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**Prof. Vaishnavi Dabir, Organizing member.**

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