

## CHIEF PATRONS

**Dr. Mariazeena Johnson**, B.E, M.B.A, M.Phil, Ph.D.,  
Chancellor

**Dr. Marie Johnson**, B.E, M.B.A, M.Phil, Ph.D.,  
President

## PATRON

**Dr. T.Sasipraba**, M.E, Ph.D.,  
Vice Chancellor

## UNDER THE GUIDANCE OF

**Dr.E.Logashanmugam**, Pro Vice Chancellor

**Dr. Wilson Aruni**, Pro Vice Chancellor

**Dr. S.S. Rao**, Registrar

**Dr. S. Igni Sabasti Prabu**, Controller of Examinations

**Dr.G.Sundari**, Director – Administration

**Dr.B.Sheela Rani**, Director – Research

## Coordinator

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## Co-Coordiators

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## Program Monitoring Committee

**Dr T.Sasipraba**, Vice Chancellor

**Dr S Prakash**, Dean (School of Mechanical Engineering)

**Dr. G. Arunkumar**, HOD (Department of Mechanical Engineering)

**Dr. P.Booma Devi**, HOD (Department of Aeronautical Engineering)

**Dr P S Venkateswaran**, National Technical Manager, ARK Info Solutions



**AICTE Sponsored**

**SIX DAYS ONLINE**

**SHORT TERM TRAINING PROGRAM (STTP)**

**ON**

**DIGITAL TWIN TECHNOLOGY FOR  
INDUSTRIAL AUTOMATION PROCESS**

**7<sup>th</sup> DECEMBER to 12<sup>th</sup> DECEMBER 2020 (Phase – III)**

**Organized By:**

**SCHOOL OF MECHANICAL ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING**



**SATHYABAMA**

**Institute of Science and Technology**

**(Deemed to be University)**

**Accredited with "A" grade by NAAC**

**CHENNAI, INDIA**

**[www.sathyabama.ac.in](http://www.sathyabama.ac.in)**



## About Sathyabama Institute of Science & Technology (Deemed to be University)

Sathyabama Institute of Science and Technology is one of South India's premier Academic and Research Universities that offers multi-disciplinary academic programmes in various fields of Engineering, Science, Technology, Management, Dentistry, Law and Nursing. It has been Accredited with 'A' Grade by the National Accreditation and Assessment Council (NAAC). Sathyabama's standing in rankings and ratings are excellent at National and International level. For the year 2020, Sathyabama Institute of Science and Technology has been ranked in 39<sup>th</sup> position among the Universities in India by the National Institutional Ranking Framework (NIRF), Government of India. NIRF has consistently ranked Sathyabama in the top 50 positions and this is the fifth consecutive year the Institution is receiving this recognition. Sathyabama Institute of Science and Technology is steered towards success under the leadership of Chancellor Dr. Mariazeena Johnson and President Dr. Marie Johnson. Sathyabama has undertaken various sponsored projects funded by both International & National organizations and also successfully conducted non-formal education programs through 18 village Resource Centers all over the state.

## About Department of Mechanical Engineering

The Mechanical Engineering Department, established in the year 1988 is one of the first departments in Sathyabama and has been offering B.E. degree programme in Mechanical Engineering, M.E. degree programmes and Ph.D Research programmes. The department has seen a tremendous growth over the last two decades with faculty members doing their doctoral research in various fields of Mechanical Engineering. The department has state of art laboratory facilities to give a wide exposure to the students for practical knowledge and hands on experience and also to cater the research needs of students and faculty members. In line with our policy of keeping abreast with the latest development, by the collective and responsive effort of the faculty the department conducts FDPs, workshops, symposia, National and International conferences.

## Scope and Necessity for Digital Twin Technology

The objective of the program is to develop and create awareness on Digital Twin Technology for quality and process improvement through modeling and simulation in Industries. The customers can create a perfect digital copy of their product, plant and process to simulate how these key elements interact, where bottlenecks form, where waste is generated. Also, they can resolve all these problems by optimizing their enterprise in the virtual world before ever committing a resource in the real world in Industrial revolution 4.0



## Training Contents

- ◆ Digital Twin Technologies and the relevance of its Adoption Now
- ◆ Digital Twin –Basics & its Applications in Industry
- ◆ Digital Twin for Process Industries & Application Integrated Engineering to Integrated Operations
- ◆ Digital Twin of Process Plant Digital Twin increasing Manufacturing process & Operational efficiency Digital Twin Technologies – Industry View
- ◆ Digital Twin Tools for Academic Research
- ◆ RF/ Wireless & EMI/EMC Consideration in Digital Twin Team center / Technomatix / MCD Practical
- ◆ Demo & Case Study Automation Simulation for Digital Twin – PLC & Simulation tools

## Resource Persons

Experienced faculty members and experts from Industries and premier institutions will be delivering the lectures and practical sessions.

## Eligibility

Faculty from AICTE approved Engineering Colleges / Universities with teaching positions in Mechanical Engineering / Information Technology / Computer Science Engineering/Electronics and Communication and other related engineering disciplines are eligible. Interested practicing engineers from industries may also apply. The number of seats is limited to 60 in each slot and selection is based on a first come first serve basis.

## Certificate

E certificates will be provided for the participants with 80 % attendance and above 50 % score in Assignments.

**Registration is open at:**

**[bit.ly/SathyabamaSTTP-Phase3](https://bit.ly/SathyabamaSTTP-Phase3)**

**Registration FREE**

**Registration limited to 60**

**First Come First Serve basis**

### IMPORTANT DATES

**Last Date to Apply: 04.12.2020**

**Intimation of Selection: 05.12.2020**

**Confirmation by Participants: 06.12.2020**

