

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

Dr.S.Prakash, Professor, Department of Mechatronics Engineering

Contact: +91 9940 390 301 | dean.mechanical@sathyabama.ac.in

Co-Coordiators

Mr.Kaja Bantha Navas, Assistant Prof, School of Mechanical Engineering

Contact: +91 9952 699 572 | sumai244@gmail.com

Mrs.K.R.Kavitha, Assistant Prof, Department of Mechanical Engineering

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

5th OCTOBER to 10th OCTOBER 2020 (Phase – I)

Organized By:

SCHOOL 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



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 39th 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-Phase1

Registration FREE

Registration limited to 60

First Come First Serve basis

IMPORTANT DATES

Last Date to Apply: 02.10.2020

Intimation of Selection: 03.10.2020

Confirmation by Participants: 03.10.2020



President

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



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SIX DAYS ONLINE

SHORT TERM TRAINING PROGRAM (STTP)

ON

DIGITAL TWIN TECHNOLOGY FOR
INDUSTRIAL AUTOMATION PROCESS

2nd NOVEMBER to 7th NOVEMBER 2020 (Phase – II)

Organized By:

SCHOOL OF MECHANICAL ENGINEERING



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Resource Persons

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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-Phase2

Registration FREE

Registration limited to 60

First Come First Serve basis

IMPORTANT DATES

Last Date to Apply: 29.10.2020

Intimation of Selection: 30.10.2020

Confirmation by Participants: 31.10.2020



President

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Dr. S.S. Rao, Registrar
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Mr.Nivin Joy, Assistant Prof, Department of Mechanical Engineering

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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



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SIX DAYS ONLINE

SHORT TERM TRAINING PROGRAM (STTP)

ON

DIGITAL TWIN TECHNOLOGY FOR
INDUSTRIAL AUTOMATION PROCESS

7th DECEMBER to 12th DECEMBER 2020 (Phase – III)

Organized By:

SCHOOL OF MECHANICAL ENGINEERING



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Institute of Science and Technology
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Certificate

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Registration is open at:
[**bit.ly/SathyabamaSTTP-Phase3**](http://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



SATHYABAMA

**SCHOOL OF
MECHANICAL FDP
SERIES**

**6 DAY FACULTY DEVELOPMENT PROGRAMME ON
ADVANCED MACHINING TECHNIQUES**

Organized By:

SCHOOL OF MECHANICAL ENGINEERING

in association with



**INDIAN INSTITUTION OF
PRODUCTION ENGINEERS (IIPE)**

22nd to 27th JUNE 2020



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)

Accredited with Grade "A" by NAAC | Approved by AICTE
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600119, Tamil Nadu, India

www.sathyabama.ac.in

ADVANCED MACHINING TECHNIQUES

DATE	TIME	TOPIC	SESSION HANDLED BY	
22 nd JUNE	10.45 – 10.50 AM	Welcome Address	Dr.S.Prakash, Dean, School of Mech	
	10.50 – 11.00 AM	Inaugural Address	Dr.D.Thirunakkarasu, Chairman,IIPE TN Chapter	
	11.00 – 12.15 PM	MICRO MACHINING		Dr.G.L.Samuel Professor Dept of Mechanical Engg IIT Madras
23 rd JUNE	10.00 – 11.00 AM	ROBOTS IN MANUFACTURING		Mr.Sriram Nagarajan Founder & CEO, RoboRAM
24 th JUNE	10.00 – 11.00 AM	HYBRID ADDITIVE SUBTRACTIVE MANUFACTURING PROCESS DEVELOPMENT		Dr.Sathyan Subbiah Associate Professor Dept of Mechanical Engg IIT Madras
25 th JUNE	10.00 – 11.00 AM	INTELLIGENT MACHINING		Dr.Ramesh S Professor in Mechanical Engg Presidency University, Bengaluru
26 th JUNE	10.00 – 11.00 AM	ADVANCED MANUFACTURING: AN INDUSTRIAL OUTLOOK		Mr. Ramani Balakrishnan General Manager, GM Pens International Pvt Ltd. Secretary IIPE, TN Chapter
27 th JUNE	10.00 – 11.00 AM	MACHINING OF POLYMER COMPOSITES		Dr. T. Rajasekaran Professor and Deputy Head Mechanical Engg SRMIST, Kattankulathur
	11.00 – 11.05 AM	Concluding Address	Dr.G.Arunkumar, HOD, Department of Mech	

REGISTRATION FREE | E CERTIFICATE WILL BE ISSUED

Zoom Link for sessions will be sent through Email

Register at: bit.ly/MachiningFDPLast date to register: 20.06.2020

PATRONS

Dr.Mariazeena Johnson

Chancellor

Dr.Marie Johnson

President

FDP CHAIR

Dr.S.Prakash

Dean, School of Mechanical Engineering

Dr.G.Arunkumar

HOD, Department of Mechanical Engg

CONVENER

Mr.Nivin Joy

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CO-CONVENER

Dr.J.Jayaprabakar

Asso Prof, Mech

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