



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited with "A" Grade by NAAC

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.

Phone: 044 - 2450 3150 / 51 / 52 / 54 / 55 Fax: 044 - 2450 2344

www.sathyabama.ac.in



Average number of professional development / administrative training programs organized by the institution for teaching and non teaching staff during the year 2020-2021

- Six days online Short term training Programme on “Digital Twin Technology for Industrial Automation” was organized by Sathyabama Institute of Science and Technology, Chennai with AICTE from October 5th-10th, 2020 (Phase I), November 2th-7th, 2020 (Phase II) and December 7th-12th, 2020 (Phase III).

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



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

Dr.S.Prakash, Professor, Department of Mechanical Engineering
Contact: +91 99940 390301

Co-Coordiators

Mr.Nivin Joy, Assistant Prof, Department of Mechanical Engineering

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

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

For any clarifications Contact: kaviraghu07@gmail.com

Mrs.P.Shvashankari, Assistant Prof, Department of Mechanical Engineering



AICTE Training and Learning (ATAL) Academy

Sponsored FDP

ON

3D PRINTING AND ADDITIVE MANUFACTURING FOR INDUSTRIAL AND BIO MEDICAL APPLICATION

24th AUGUST to 28th AUGUST 2020

Organized By:

CENTRE OF EXCELLENCE FOR COLLABORATIVE PRODUCT
DESIGN AND DEVELOPMENT (CPDD Centre)
DEPARTMENT OF MECHANICAL ENGINEERING



SATHYABAMA

Institute of Science and Technology

3D PRINTING AND ADDITIVE MANUFACTURING FOR INDUSTRIAL AND BIO MEDICAL APPLICATION

24th AUGUST to 28th AUGUST 2020

FDP SCHEDULE

24.08.2020 – 9.30 AM to 10.00 AM – Inauguration.

Inauguration Guest Speaker: **Dr. I.A.Palani** (Dean, R & D), IIT, Indore.

Date	10:00 AM to 11:30 AM	11.45 AM to 1.15 PM	2:00 PM to 3.30 PM
24.08.2020 (Monday)	Session 1 Dr P S Venkateswaran National Technical Manager ARK info solutions Pvt Ltd., Chennai Power of Digital Manufacturing for New Product Development	Session 2 Mr. Rizwan (Manager) Designtech System Pvt Limited Additive Manufacturing Technologies for Innovative Product Development	Session 3 Mr. Rizwan (Manager) Designtech System Pvt Limited Medical Application of 3 D Printer with STRATASYS Multi Material A M Technologies
25.08.2020 (Tuesday)	Session 4 Dr. T. Rajasekaran Professor, SRM University State of the art 3 D Printing of Polymer Composites	Session 5 Dr P S Venkateswaran National Technical Manager ARK info solutions Pvt Ltd., Chennai 3D Printer with Medical Application	Session 6 Dr P S Venkateswaran National Technical Manager ARK info solutions Pvt Ltd., Chennai 3 D Printer (Virtual Demo)
26.08.2020 (Wednesday)	Session 7 Dr. Ganesh Kumar Nithyanandam Professor, PSG Tech Usage of 3 D Printing in Industry 4.0	Session 8 Mr. Prathap (Manager) Designtech System Pvt Limited Additive Manufacturing in Product Design and Manufacturing	Session 9 Dr. Shiena Shekhar , Professor, Bhilai Institute of Technology (BIT), Bhilai Valuation of Surface Durability of Sand Casting Tooling for FDM Process
27.08.2020 (Thursday)	Session 10 Mr. Daniel (Director) Delta Rapid 3 D Industrial 3D Printing - Additive Manufacturing Adaption in Aerospace, Defense & Medical Tooling	Session 11 Mr. Daniel (Director) Delta Rapid 3 D Industrial 3 D Printing - Additive Manufacturing Adaption in Education and R & D	Session 12 (AICTE – Compulsory Session) Dr. Janani Rex Motivational Speaker Emotional and Mental Development to Face the Current Phase
28.08.2020 (Friday)	Session 13 Dr. I.A.Palani (Dean R & D) IIT, Indore Functional Materials for 3D Printing (Macro to Micro)	Session 14 Mr PradeepKumar Chief Consultant Engineer Zillion RPM Labs Role of 3 D Printer in Pattern Making in Various Industries	Session 15 Test and Feed Back Session

No:ATAL/2020/1597396572



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi - 110 070

AICTE Training And Learning (ATAL) Academy

Certificate

This is certified that **S.Sivasaravanan**, Associate Professor of Sathyabama Institute of Science and Technology participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "3D Printing & Design" from 2020-8-24 to 2020-8-28 at Sathyabama Institute of Science and Technology.

Director ATAL Academies



Coordinator



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

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

Co-Coordinators

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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 online

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
DEPARTMENT OF MECHANICAL ENGINEERING**



SATHYABAMA

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

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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





CHIEF PATRONS

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Program Monitoring Committee

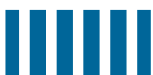
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Dr P S Venkateswaran, National Technical Manager, ARK Info Solutions



AICTE Sponsored

SIX DAYS ONLINE

SHORT TERM TRAINING PROGRAM (STTP)

ON

**DIGITAL TWIN TECHNOLOGY FOR
INDUSTRIAL AUTOMATION PROCESS**

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

Organized By:

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



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Training Contents

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Resource Persons

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Eligibility

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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



CHIEF PATRONS

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Chancellor

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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**

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

Organized By:

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



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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-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

INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY)

(Established under Section 3 of the UGC Act, 1956)

Accredited with 'A' Grade by NAAC

Rajiv Gandhi Road, Jeppiaar Nagar Chennai – 600 119, Tamilnadu, India.



REPORT ON

AICTE FUNDED

SIX DAYS ONLINE SHORT TERM TRAINING PROGRAM (STTP) ON

“DIGITAL TWIN TECHNOLOGY FOR INDUSTRIAL AUTOMATION”

October 5th-10th, 2020 (Phase I)
November 2th-7th, 2020 (Phase II)
December 7th-12th, 2020 (Phase III)

SUPPORTED BY



SUBMITTED TO
Col.B.Venkat
Faculty Development Cell
AICTE, New Delhi - 110070
Chennai- 600 119

SUBMITTED BY
Dr. S. Prakash (Coordinator)
Professor and Dean
School of Mechanical Engineering
Sathyabama Institute of Science and Technology
Jeppiaar Nagar, Rajiv Gandhi Road, Chennai- 600119
Tamilnadu, INDIA

Six days online Short term training Programme on “**Digital Twin Technology for Industrial Automation**” was organized by Sathyabama Institute of Science and Technology, Chennai with AICTE from October 5th-10th, 2020 (Phase I), November 2th-7th, 2020 (Phase II) and December 7th-12th, 2020 (Phase III).

The opening Institutional ceremony was inaugurated by **Dr. T. Sasipraba, Vice Chancellor**, Sathyabama Institute of Science and Technology, delivered the introductory speech with the theme of the STTP and the objectives behind organizing the STTP. In her inaugural speech, she spoke about the role of digital manufacturing to improve quality in research and start-up. Her talk covered a wide range of best practices through which the institution can transform the education system towards Digital Manufacturing.

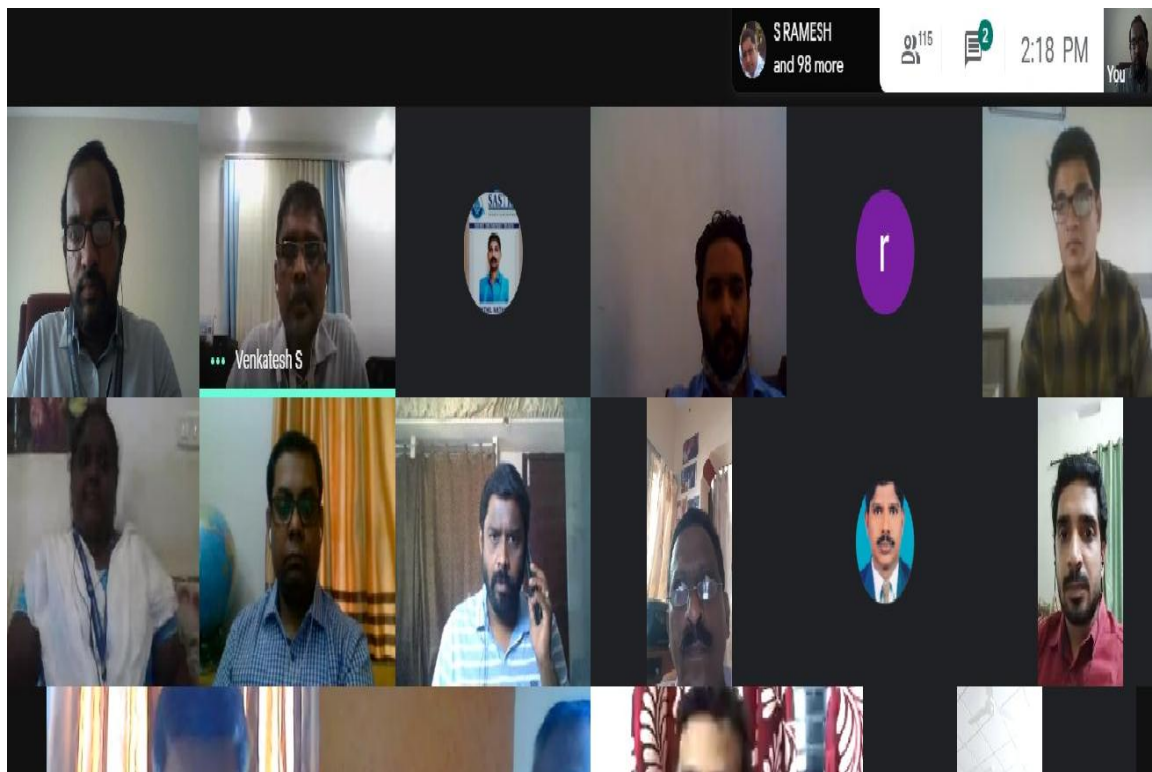
For each phase, there were **17 Technical Sessions and one Motivational Session** in the STTP excluding Inaugural Session and Valedictory Session. A total of 200 faculties, Research scholars, PG Students from various Institutions from the entire nation had benefited and witnessed in the program. Speakers have enlightened the audience with their inspiring talk and shared their valuable experience.

At the end of technical sessions, Dr. S.Prakash, Dean, School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai (Coordinator) gave some valuable suggestions for the creation, continuity or sustenance and maintenance of New Product Development with Digital Manufacturing in Higher Education Institutions. Sathyabama Institute of Science and Technology has to ensure continuous improvement in all the Product Development aspects of an institution and also assure the accountability of the institution for its own quality to the stakeholders.

PHOTO GALLERY



**Dr P S Venkateswaran, National Technical Manager, ARK info solutions Pvt Ltd., Chennai
Addressing Delegates in Technical Session**



Delegates in Group Photo

**AICTE FUNDED
SIX DAYS ONLINE SHORT TERM TRAINING PROGRAM (STTP) ON
“DIGITAL TWIN TECHNOLOGY FOR INDUSTRIAL AUTOMATION”**

FEED BACK FORM

1. AICTE File No. & Date of Offer Letter:
34 -66 / 173 / F DC/STT P/Policy - 1 /
2019 -20; 10th August, 2020 and AICTE
letter 14th September, 2020
2. Name of the Coordinator: Dr S. Prakash
3. Name and Address of the Institution:
Sathyabama Institute of Science and
Technology (Deemed to be University)
Jeppiaar Nagar, Rajiv Gandhi Salai,
Chennai - 600 119. Tamilnadu, INDIA.
4. Title of the Online Short term training programme:
Digital Twin Technology for Industrial
Automation
5. Dates : 5th October to 10th October, 2020 (Phase
I), 2th November to 7th November, 2020
(Phase II) and 7th December to 12th
December, 2020 (Phase III)
6. Venue : Online
7. Total no. of participants proposed and actually attended

Proposed : 200 Attended: 200

8. No. and date of the offer letter

Letter No.	Date
34 -66 / 173 / F DC/STT P/Policy - 1 / 2019 - 20; 10 th August, 2020 and AICTE letter 14 th September, 2020	10 th August, 2020; 14 th September, 2020

9. Total amount sanctioned : Rs. 2, 85,000.00

10. No. and date of sanction letter

Letter No.	Date	Grant Released
4 -66 / 173 / F DC/STT P/Policy - 1 / 2019 -20; 10th August, 2020 and AICTE letter 14th September, 2020	10th August, 2020; 14th September, 2020	Rs. 2, 85,000.00

11. Total expenditure incurred in conducting the Faculty Development Programme
Rs. 2, 79,000.00

12. Grant received from various agencies other than AICTE for this Faculty Development Programme

----NIL --

Sl. No.	Name of Agency	Grant Received
	----NIL --	
	Total =	---

13. Details of internal revenue if any generated by the Institution / Department on account of this Programme

----NIL --

14. Briefly mention about the technological / academic / or any other benefit generated by conducting this programme with respect to a) the institution, b) the faculty; c) students; d) industry / society.

a) The institution:

This online STTP is a small endeavor of the institution (in association with AICTE) for the knowledge development of engineering faculties in the area of “**Digital Manufacturing**”. The institution is proud for the offered chance to associate with AICTE for conducted this FDP through online mode. It has greatly helped the institute for the industry – institute interface by bringing resource person from industry and academics through virtual mode.

b) The faculty

The knowledge about the “**Digital Manufacturing**” was provided through this STTP to faculties including the following specific areas, like Smart Grid, its integration with Renewable Energy and its Protection.

c) Students

Knowledge gained by the faculty can be imparted to the student community by which they can explore in the latest trends of “**Digital Manufacturing**”.

d) Industry / Society

Helps in developing interactions between the industry and the institution.