

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (Deemed to be University)

3 WEEKS TRAINING PROGRAM ON 3D PRINTING

**Organized by
School of Mechanical Engineering**

Date: 01 -07-2019 to 20-07-2019



KEY TAKEAWAYS FROM THE TRAINING PROGRAM

- **Additive manufacturing Technologies**
- **3D Printers and Material**
- **3D CAD Modeling package and Scanning**
- **3D Printer maintenance**

Convener
Dr. S. Prakash

Dean, School of Mechanical Engineering

For Registration Contact :

Mr. J Senthil Kumar

Assistant Professor

Department of Mechatronics Engineering

Mobile No: 9600260083

Course Coordinator

Dr. J. Lilly Mercy

Assistant Professor

Department of Mechatronics Engineering

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)

3 WEEKS TRAINING PROGRAM ON 3D PRINTING

Organized by
School of Mechanical Engineering

Date: 01 -07-2019 to 20-07-2019

	Course Outline	Time Duration
MODULE 1	• Introduction to Additive Manufacturing • Slicing & Orientation • 3D Scan processing • Estimation and scheduling • Applications of 3D Printing	6 Hours
Module 2	• 3D Printer machine maintenance • 3D Printing Control and Mechanical Systems • 3D Printing Materials and Extrusion System • Troubleshooting	12 Hours
Module 3	• Practical Training on Design Sketching for 3D Printing • Preparing Design models for 3D Printing • Post Processing of 3D Printed models • Hands On Training on 3D Printing Machine	14 Hours

- **Three Weeks training program on 3D printing for School of Mechanical Engineering students organized by School of Mechanical Engineering, Sathyabama Institute of Science and Technology from 01 -07-2019 to 20-07-2019. A total of 22 Under Graduate Students of Mechatronics Engineering students have successfully completed the short term course on 3D Printing.**



LIST OF PARTICIPANTS FOR THE THREE WEEKS TRAINING PROGRAM ON 3D PRINTING

SL NO	Name	Registration Number	Roll Number
1	AATHISHANKARAN. K. S	38090001	18SMT5011
2	AMAN DINODIYA	38090002	18SMT5001
3	BALA KABILAN. R	38090003	18SMT5002
4	DARVIN. V	38090004	18SMT5003
5	DHANAPRASATH. G	38090005	18SMT9007
6	EZHUMALAI. A	38090006	18SMT9006
7	JOHN BRUTTUS. R	38090008	18SMT9003
8	JOHN. B	38090009	18SMT5005
9	KAMALINEE. S	38090010	18SMT9001
10	KARTHICK RAJA. S	38090011	18SMT9005
11	LOKESH. G	38090012	18SMT5004
12	MANI. C	38090013	18SMT9004
13	NARESH. S	38090014	18SMT5012
14	NAVEEN. G	38090015	18SMT5006
15	NESARAJ.D	38090016	18SMT9002
16	RAGHAVENDRA. R	38090017	18SMT9010
17	SABEER KHAN. J	38090018	18SMT5007
18	SIVASURYA. P	38090019	18SMT5013
19	SRIRAM. S	38090020	18SMT5008
20	VIGNESHWAR. M	38090021	18SMT5010
21	SHAIK VALI ABDUL HAQ	38090701	19SLMT801
22	HARI PRASAD . CH	38090702	19SLMT802



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CERTIFICATE OF PARTICIPATION



DARVIN. V

of School of Mechanical Engineering has participated in "Three Weeks Training Program on 3D Printing" from 01-07-2019 to 20-07-2019 organized by School of mechanical engineering, Sathyabama Institute of Science and Technology, Chennai - India.

(Dr. J. Lilly Mercy)
Course Coordinator

(Dr. S. Prakash)
Dean - School of Mechanical Engineering



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



Report

The Department of Mechatronics Engineering under school of Mechanical from SATHYABAMA Institute of Science and Technology organised a 3weeks training program for 3D printing, Key note person have discussed about 3d working model with practical sessions. Through this students acquire the knowledge on modeling of 3d printing software tools and design development of the CAD model. The program was conducted from 01-07-2019 to 20.07.2019. from school of mechanical engineering 11 staff members and 22 students have participated

List of staff Members participated

Sl.No	Name of the staff	Designation	Institutions
1.	Dr.S.Sivasaravan an	Associate Professor	Sathyabama Institute of Science and Technology Chennai
2.	Mr.J.Senthil Kumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
3.	Mr.Jayaprakash	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
4.	Mr.Deepack	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
5.	Dr.Jayaprabhakar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
6.	Dr.S.Ganesh	Associate Professor	Sathyabama Institute of Science and Technology Chennai
7.	Dr.G.Senthil Kumar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
8.	Dr.S.P Ventatesan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
9.	Mr.Madhankumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
10.	Mr.Gukul Nath	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
11.	Mr.DilipSahoo	Assistant Professor	Sathyabama Institute of Science and Technology Chennai

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)

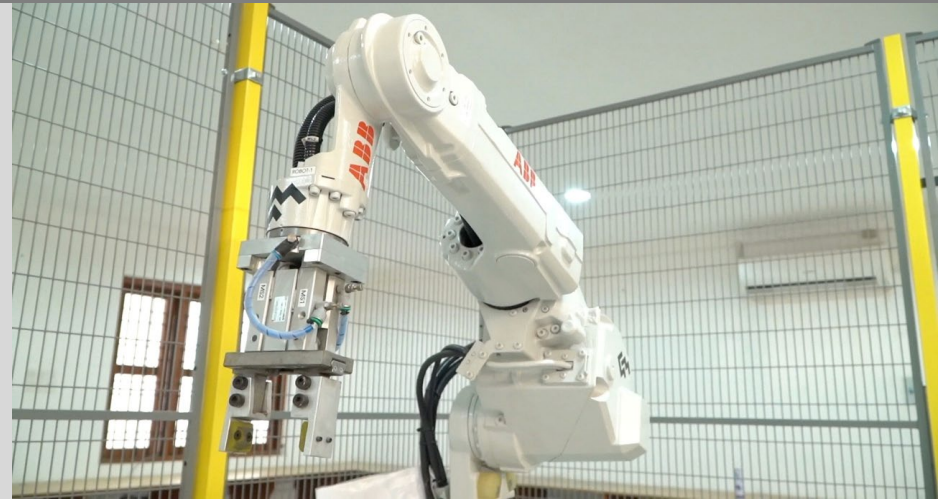
HANDS ON TRAINING PROGRAM ON ROBOT AND PROGRAMMING

Organized by
Department of Mechatronics Engineering
School of Mechanical Engineering
Date: 03 -02-2020 to 15-02-2020

This training mainly focuses on providing the students the fundamentals, terminologies and basic operations of the industrial robots for the students and research scholars to meet the ever changing demands on industrial needs for Robotics.

COURSE HIGHLIGHTS

- Hands on Experience with ABB IRB1520 Industrial Robot
- Dedicated Sessions on Program Industrial Robot
- Dedicated sessions on robot kinematics using MATLAB
- Certificate will be Provided in association with Professional



Convener
Dr. S. Prakash
Dean, School of Mechanical Engineering

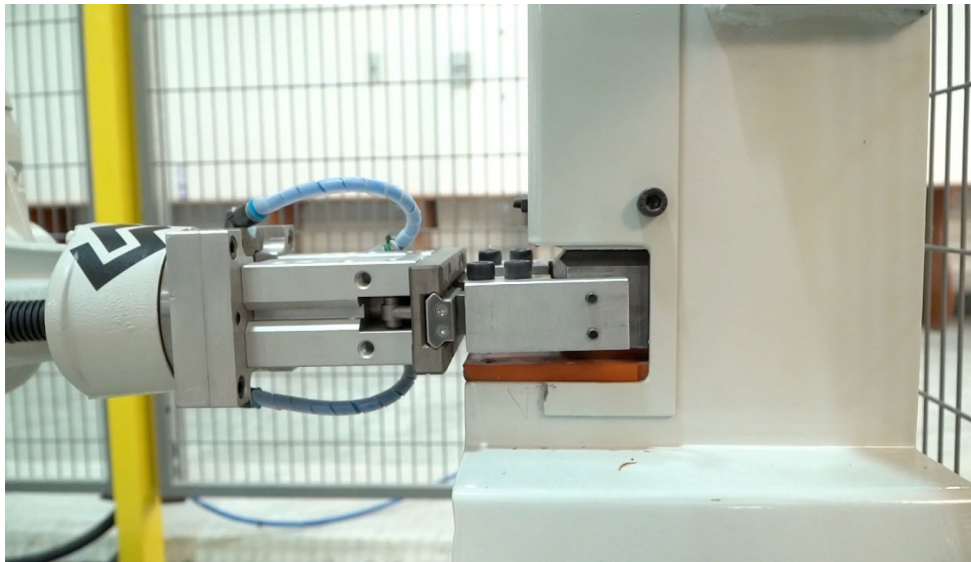
For Registration Contact
Mr. J. R. Deepak
Assistant Professor
Department of Mechatronics Engineering
Mobile: 9047382398

Course Coordinator
Dr. R. B .Durairaj M.Tech (Robotics) , PhD.,
Assistant Professor,
Center of Robotics & Automation
School of Mechanical Engineering
Sathyabama Institute of Science and Technology,
Chennai – 119
Mail: durairaj.mech@sathyabama.ac.in
Mobile: 7305533500

COURSE MODULES FOR HANDS ON TRAINING PROGRAM ON ROBOT AND PROGRAMMING

MODULE – I	• Introduction to Robotics • Introduction to Industry 4.0 • Need of Robots in Manufacturing • Robot Configuration , Work Volume & Pay load • Robot Kinematics • Robot Grippers • Robot Gripper Design • Robot Actuators • Robot Sensors	(10 hours)
MODULE – II	• Robot Machine Vision System • Robot Control System • Flexible Manufacturing Systems • Robot work cell • Industrial Application for Robots • Robots in Medical Applications • Robots in Hazardous Environment • Robot Safety and Maintenance	(14 hours)
MODULE – III	• Introduction to Robot Programming • Teach Pendant / Flex Pendant • Robot Coordinates , TCP , Interfacing with Flex Pendant • Basic Operations using Flex Pendant • Jogging Mode – Practical – I • Motion Commands – Practical – II • Basic Pick and Place Operation – Practical – III • Programming for Palletizing – Practical - IV	(14 hours)

HANDS ON TRAINING PROGRAM ON ROBOT AND PROGRAMMING



LIST OF PARTICIPANTS FOR HANDS ON TRAINING PROGRAM ON ROBOT AND PROGRAMMING

SL NO	Name	Registration Number
1	AATHISHANKARAN. K. S	38090001
2	AMAN DINODIYA	38090002
3	BALA KABILAN. R	38090003
4	DARVIN. V	38090004
5	DHANAPRASATH. G	38090005
6	EZHUMALAI. A	38090006
7	JOHN BRUTTUS. R	38090008
8	JOHN. B	38090009
9	KAMALINEE. S	38090010
10	KARTHICK RAJA. S	38090011
11	LOKESH. G	38090012
12	MANI. C	38090013
13	NARESH. S	38090014
14	NAVEEN. G	38090015
15	NESARAJ.D	38090016
16	RAGHAVENDRA. R	38090017
17	SABEER KHAN. J	38090018
18	SIVASURYA. P	38090019
19	SRIRAM. S	38090020
20	VIGNESHWAR. M	38090021



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CERTIFICATE OF COMPLETION

presented to



LOKESH . G

Student of School of Mechanical Engineering has successfully completed the "TRAINING PROGRAM on ROBOT and PROGRAMMING" on ABB IRB1520 Industrial Robot from 03 -02-2020 to 15-02-2020 organized by Department of Mechatronics Engineering, School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai.

Mr. J.R. DEEPAK

ASSISTANT PROFESSOR
DEPARTMENT OF MECHATRONICS ENGINEERING
SCHOOL OF MECHANICAL ENGINEERING

DR. R.B. DURAIRAJ

Assistant Professor,
Center of Robotics & Automation
School of Mechanical Engineering

Dr. S. PRAKASH

Dean
School of mechanical engineering



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



Report

The Department of Mechatronics Engineering under school of Mechanical from Sathyabama Institute of Science and Technology organised a Hands on Training Program on Robot and Programming. The key note persons discussed about robot safety maintenances and industry applications through this program the students acquire the knowledge on robot design. The program was conducted from 01-07-2019 to 20.07.2019. From a school of mechanical engineering 11 staff members and 22 students have participated

List of staff Members participated

Sl.No	Name of the staff	Designation	Institutions
1.	Dr.S.Sivasaravan an	Associate Professor	Sathyabama Institute of Science and Technology Chennai
2.	Mr.J.Senthil Kumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
3.	Mr.Jayaprakash	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
4.	Mr.Deepack	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
5.	Dr.Jayaprabhakar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
6.	Dr.S.Ganesh	Associate Professor	Sathyabama Institute of Science and Technology Chennai
7.	Dr.G.Senthil Kumar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
8.	Dr.S.P Ventatesan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
9.	Mr.Madhankumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
10.	Mr.Gukul Nath	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
11.	Mr.DilipSahoo	Assistant Professor	Sathyabama Institute of Science and Technology Chennai

SATHYABAMA MECHANICAL FDP SERIES

6 DAY FACULTY DEVELOPMENT PROGRAMME ON ADVANCED MACHINING TECHNIQUES

Organized By:

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

in association with



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

22nd to 27th JUNE 2020



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

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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
Asst Prof, Mech
nivinjoy@gmail.com | 988 484 3539

CO-CONVENER

Dr.J.Jayaprabakar
Asso Prof, Mech
jp21tn@gmail.com | 999 406 9306



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6DAYS FACULTY DEVELOPMENT PROGRAMM FOR ADVANCED MACHINING TECHNIQUES 22/06/2020 to 27/06/2020

Report

A faculty development programm for Advance Machining Techniques program is by Organized by School of Mechanical Engineering, Department of Mechatronics Engineering, Sathyabama Institute of Science and Technology from 22/06/2020 to 27/06/2020. The course delivered complete machining technologies for industrial automations manufacturing and applications, From school of Mechanical Engineering 21 staff members have participated.

List of staff members Participated			
Sl.No	Name of the staff	Designation	Institutions
Sl.No	Name of the staff	Designation	Institutions
1.	Dr.B.Kanimozhi	Professor	Sathyabama Institute of Science and Technology Chennai
2.	Dr.M.Sangeetha	Associate Professor	Sathyabama Institute of Science and Technology Chennai
3.	Dr.S.Sivasaravanan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
4.	Mr.J.Senthil Kumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
5.	Mr.Jayaprakash	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
6.	Mr.Deepack	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
7.	Dr.Jayaprabhakar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
8.	Dr.S.Ganesh	Associate Professor	Sathyabama Institute of Science and Technology Chennai
9.	Dr.G.Senthil Kumar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
10.	Dr.S.P Ventatesan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
11.	Mr.Madhankumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
12.	Mr.Gukul Nath	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
13.	Mr.DilipSahoo	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
14.	Dr.A Karthikeyan	Professor	Sathyabama Institute of Science and Technology Chennai
15.	Dr.Durai Raj	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
16.	Dr.J.lilly mercy	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
17.	Mr.Sriram	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
18.	Mr.Purusothaman	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
19.	Mr.Siva	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
20.	Mr Yuvaraj	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
21.	Mr Gunasekar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai

FACULTY DEVELOPMENT PROGRAMME

on

ADVANCED MACHINING TECHNIQUES



Organized by

**Department of
Mechanical Engineering**

in association with



**Indian Institution of
Production Engineers (IIPE)
Tamil Nadu Chapter**

Unique Certificate ID: SIST-MECH-FDP-031



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



Certificate

of Participation

This is to certify that Dr. B.Kanimozhi of
Sathyabama Institute of Science and Technology has
actively participated in the 6 day Faculty Development
Programme on **Advanced Machining Techniques** organized
by the Department of Mechanical Engineering, Sathyabama
Institute of Science and Technology, Chennai in association with
Indian Institution of Production Engineers (IIPE), Tamil Nadu
Chapter from 22nd to 27th June 2020.

Nivin Joy
(Convener)

Dr. G. Arun Kumar
(HOD Mechanical)

Dr. S. Prakash
(Dean Mechanical)

Dr. D. Thirunakkarasu
(Chairman, IIPE, TN Chapter)

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

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 Castng 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



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3D PRINTING AND ADDITIVE MANUFACTURING FOR INDUSTRIAL AND BIOMEDICAL APPLICATIONS

24/08/2020 to 28/08/2020

Report

A faculty development program on 3D printing and additive manufacturing for Industrial and Biomedical applications a training program was organized by School of Mechanical Engineering, Department of Mechatronics Engineering, Sathyabama Institute of Science and Technology from 24/08/2020 to 28/08/2020. The course delivered 3D printing model specification construction module and working module for biomedical applications, From school of Mechanical Engineering 21 staff members have participated.

List of staff members Participated			
Sl.No	Name of the staff	Designation	Institutions
Sl.No	Name of the staff	Designation	Institutions
1.	Dr.B.Kanimozhi	Professor	Sathyabama Institute of Science and Technology Chennai
2.	Dr.M.Sangeetha	Associate Professor	Sathyabama Institute of Science and Technology Chennai
3.	Dr.S.Sivasaravanan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
4.	Mr.J.Senthil Kumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
5.	Mr.Jayaprakash	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
6.	Mr.Deepack	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
7.	Dr.Jayaprabhakar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
8.	Dr.S.Ganesh	Associate Professor	Sathyabama Institute of Science and Technology Chennai
9.	Dr.G.Senthil Kumar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
10.	Dr.S.P Ventatesan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
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12.	Mr.Gukul Nath	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
13.	Mr.DilipSahoo	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
14.	Dr.A Karthikeyan	Professor	Sathyabama Institute of Science and Technology Chennai
15.	Dr.Durai Raj	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
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17.	Mr.Sriram	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
18.	Mr.Purusothaman	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
19.	Mr.Siva	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
20.	Mr Yuvaraj	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
21.	Mr Gunasekar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

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CERTIFICATE OF PARTICIPATION

*This is to certify that **Dr.M.SANGEETHA** of Sathyabama Institute of Science and Technology, has successfully participated in the “3D PRINTING AND ADDITIVE MANUFACTURING FOR INDUSTRIAL AND BIOMEDICAL APPLICATIONS” organized by the Department of Mechatronics Engineering, Sathyabama Institute of Science and Technology, Chennai held from 24th to 28th August 2020*



S. R.

Dr. S. PRAKASH

DEAN MECHANICAL
CONVENER



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 9940 390 301 | dean.mechanical@sathyabama.ac.in

Co-Coordination

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



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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 MECHATRONICS



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 Mechatronics Engineering

The Mechanical Engineering Department, established in the year 2018 is one of the departments in Sathyabama and has been offering B.E. degree programme in Mechatronics 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 Mechatronics 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





SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited with 'A' grade by NAAC
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.



SHORT TERM TRAINING PROGRAM (STTP) DIGITAL TWIN TECHNOLOGY FOR INDUSTRIAL AUTOMATION PROCESS (Phase –I) 05/10/2020 to 10/10/2020

Report

Short term training program (STTP) Digital Twin Technology for Industrial Automation Process (Phase-I) Training program is by Organized by School of Mechanical Engineering, Department of Mechatronics Engineering, Sathyabama Institute of Science and Technology from 05.10.2020 to 10.10.2020. The course delivered complete digital technology for industrial automations manufacturing and applications, From school of Mechanical Engineering 21 staff members have participated.

List of staff members Participated			
Sl.No	Name of the staff	Designation	Institutions
1.	Dr.B.Kanimozhi	Professor	Sathyabama Institute of Science and Technology Chennai
2.	Dr.M.Sangeetha	Associate Professor	Sathyabama Institute of Science and Technology Chennai
3.	Dr.S.Sivasaravanan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
4.	Mr.J.Senthil Kumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
5.	Mr.Jayaprakash	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
6.	Mr.Deepack	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
7.	Dr.Jayaprabhakar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
8.	Dr.S.Ganesh	Associate Professor	Sathyabama Institute of Science and Technology Chennai
9.	Dr.G.Senthil Kumar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
10.	Dr.S.P Ventatesan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
11.	Mr.Madhankumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
12.	Mr.Gukul Nath	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
13.	Mr.DilipSahoo	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
14.	Dr.A Karthikeyan	Professor	Sathyabama Institute of Science and Technology Chennai
15.	Dr.Durai Raj	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
16.	Dr.J.lilly mercy	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
17.	Mr.Sriram	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
18.	Mr.Purusothaman	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
19.	Mr.Siva	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
20.	Mr Yuvaraj	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
21.	Mr Gunasekar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai

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CERTIFICATE OF PARTICIPATION

This is to certify that **Dr.J.JAYAPRABAKAR** of Sathyabama Institute of Science and Technology, has successfully participated in the **“Short term training program (STTP) Digital Twin Technology for Industrial Automation Process (Phase-I) ”** organized by the Department of Mechatronics Engineering, Sathyabama Institute of Science and Technology, Chennai held from 5th to 10th October 2020



S. R.

Dr. S. PRAKASH

DEAN MECHANICAL
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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 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



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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 MECHATRONICS



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 Mechatronics Engineering

The Mechanical Engineering Department, established in the year 2018 is one of the first departments in Sathyabama and has been offering B.E. degree programme in Mechatronics 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 Mechatronics 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
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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





SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

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SHORT TERM TRAINING PROGRAM (STTP) DIGITAL TWIN TECHNOLOGY FOR INDUSTRIAL AUTOMATION PROCESS (Phase –II) 02/11/2020 to 07/11/2020

Report

Short term training program (STTP) Digital Twin Technology for Industrial Automation Process (Phase-II) Training program is by Organized by School of Mechanical Engineering, Department of Mechatronics Engineering, Sathyabama Institute of Science and Technology from 02.11.2020 to 07.11.2020. The course delivered complete digital technology for industrial automations manufacturing and applications, From school of Mechanical Engineering 21 staff members have participated.

List of staff members Participated			
Sl.No	Name of the staff	Designation	Institutions
1.	Dr.B.Kanimozhi	Professor	Sathyabama Institute of Science and Technology Chennai
2.	Dr.M.Sangeetha	Associate Professor	Sathyabama Institute of Science and Technology Chennai
3.	Dr.S.Sivasaravanan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
4.	Mr.J.Senthil Kumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
5.	Mr.Jayaprakash	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
6.	Mr.Deepack	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
7.	Dr.Jayaprabhakar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
8.	Dr.S.Ganesh	Associate Professor	Sathyabama Institute of Science and Technology Chennai
9.	Dr.G.Senthil Kumar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
10.	Dr.S.P Ventatesan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
11.	Mr.Madhankumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
12.	Mr.Gukul Nath	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
13.	Mr.DilipSahoo	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
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15.	Dr.Durai Raj	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
16.	Dr.J.lilly mercy	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
17.	Mr.Sriram	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
18.	Mr.Purusothaman	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
19.	Mr.Siva	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
20.	Mr Yuvaraj	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
21.	Mr Gunasekar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

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www.sathyabama.ac.in

CERTIFICATE OF PARTICIPATION

This is to certify that **Dr.S.P VENKATESAN** of Sathyabama Institute of Science and Technology, has successfully participated in the “**Short term training program (STTP) Digital Twin Technology for Industrial Automation Process (Phase-I)**” organized by the Department of Mechatronics Engineering, Sathyabama Institute of Science and Technology, Chennai held from 2nd to 7th November 2020



S. P.

Dr. S. PRAKASH

DEAN MECHANICAL
CONVENER



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.,

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Dr.G.Sundari, Director – Administration

Dr.B.Sheela Rani, Director – Research

Coordinator

Dr.S.Prakash, Professor, Department of Mechanical 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

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

Program Monitoring Committee

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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



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 MECHATRONICS



SATHYABAMA

Institute of Science and Technology

(Deemed to be University)

Accredited with “A” grade by NAAC

CHENNAI, INDIA

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Training Contents

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- ◆ Digital Twin –Basics & its Applications in Industry
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- ◆ Digital Twin of Process Plant Digital Twin increasing Manufacturing process & Operational efficiency Digital Twin Technologies – Industry View
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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





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SHORT TERM TRAINING PROGRAM (STTP) DIGITAL TWIN TECHNOLOGY FOR INDUSTRIAL AUTOMATION PROCESS (Phase –III) 07/12//2020 to 12/12/2020

Report

Short term training program (STTP) Digital Twin Technology for Industrial Automation Process (Phase-III) Training program is by Organized by School of Mechanical Engineering, Department of Mechatronics Engineering, Sathyabama Institute of Science and Technology from 07.12.2020 to 12.12.2020. The course delivered complete digital technology for industrial automations manufacturing and applications, From school of Mechanical Engineering 21 staff members have participated.

List of staff members Participated			
Sl.No	Name of the staff	Designation	Institutions
1.	Dr.B.Kanimozhi	Professor	Sathyabama Institute of Science and Technology Chennai
2.	Dr.M.Sangeetha	Associate Professor	Sathyabama Institute of Science and Technology Chennai
3.	Dr.S.Sivasaravanan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
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5.	Mr.Jayaprakash	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
6.	Mr.Deepack	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
7.	Dr.Jayaprabhakar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
8.	Dr.S.Ganesh	Associate Professor	Sathyabama Institute of Science and Technology Chennai
9.	Dr.G.Senthil Kumar	Associate Professor	Sathyabama Institute of Science and Technology Chennai
10.	Dr.S.P Ventatesan	Associate Professor	Sathyabama Institute of Science and Technology Chennai
11.	Mr.Madhankumar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
12.	Mr.Gukul Nath	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
13.	Mr.DilipSahoo	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
14.	Dr.A Karthikeyan	Professor	Sathyabama Institute of Science and Technology Chennai
15.	Dr.Durai Raj	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
16.	Dr.J.lilly mercy	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
17.	Mr.Sriram	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
18.	Mr.Purusothaman	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
19.	Mr.Siva	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
20.	Mr Yuvaraj	Assistant Professor	Sathyabama Institute of Science and Technology Chennai
21.	Mr Gunasekar	Assistant Professor	Sathyabama Institute of Science and Technology Chennai



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SHORT TERM TRAINING PROGRAM (STTP) DIGITAL TWIN TECHNOLOGY FOR INDUSTRIAL AUTOMATION PROCESS (Phase –III) 07/12//2020 to 12/12/2020

Report

Short term training program (STTP) Digital Twin Technology for Industrial Automation Process (Phase-III) Training program is by Organized by School of Mechanical Engineering, Department of Mechatronics Engineering, Sathyabama Institute of Science and Technology from 07.12.2020 to 12.12.2020. The course delivered complete digital technology for industrial automations manufacturing and applications, From school of Mechanical Engineering 21 staff members have participated.

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