



Skyfi Labs

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Department of Mechatronics Engineering

School of Mechanical Engineering

IN ASSOCIATION WITH SKYFI LABS

PRESENTS

MECHATRONIC BOOTCAMP

3 NOVEMBER – 7 NOVEMBER 2020

18001237177
info@skyfilabs.com



Join practical training on Mechatronic Bootcamp

- Learn and Build Animatronic Hand, Robotic Arm & Hexapod projects
- Complete hands-on practical based learning experience
- Understanding of electronic circuits involved and its working
- Learn from best trainers who will guide you throughout the bootcamp. 100% success guaranteed!
- Development and control Techniques involved in designing Animatronic structures
- Exposure to Flex sensors, Microcontroller programming (Freeduino), servo motors etc. Introduction to Design and Development of Walking Robots
- Design and Build a Robotic Arm
- Concepts of forward and inverse kinematics

Price: 2600/- per participant

Venue: Centre for Product Design and Development (CPDD) Lab, School of Mechanical Engineering

Course Coordinators:

Dr. J. Lilly Mercy - 9940319604

Mr. J. R. Deepak - 9047382398

Student Coordinators:

Mr. Salamon Arockiaraj - 9445409474

Mr. Krishnakaanth - 7871383884



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



01-10-2020

STUDENT CIRCULAR

This is to inform that the Department of Mechatronics Engineering, School of Mechanical Engineering is conducting a **5 days Mechatronics Boot Camp from 03rd November, 2020 to 08th November, 2020** in association with Skyfi Labs.

The highlights of the Mechatronics Boot Camp are

(i) Hands on experience and training in **Animatronics Hand, Hexapod and Robotic Arm** (Kits will be provided and taken back)

(ii) Login for Skyfi Labs to every participant where they can

- Download the reference material

- Video Tutorials

- Download certificates

- Write online Examination

(iii) "Certificate of Completion" to all the students who successfully complete the workshop
"Certificate of Completion with Distinction" to the top-performing participants in the workshop

(iv) All certificates can be e-verified at the Skyfi Labs website.

(v) A competition among the participants will be held on the final day and one winning team will be given a robotic combo kit worth Rs. 10,000/-

Venue : Centre for Excellence for Product Design and Development (CPDD), School of Mechanical Engineering

Dates : 03rd Nov, 2020 to 08th Nov, 2020 (5 days)

Course fee : Rs.2600/- per participant.

Registration deadline : 30th Oct 2020

Faculty coordinators : Dr. J. Lilly Mercy (9940319604)

Mr. J.R. Deepak (9047382398)

Student Coordinators: Salamon Arockiaraj (9445409474)

Krishnakaanth (7871383884)

S. R.

Dr. S. Prakash
Prof and Dean



www.skyfilabs.com

3 November 2020

This is to certify that

M Prasanna Kumar

has completed a project-based training program on

Mechatronics Bootcamp at

Sathyabama Institute of Science & Technology

From 3 November to 7 November 2020

Pavan Kumar P
CEO, Skyfi Labs

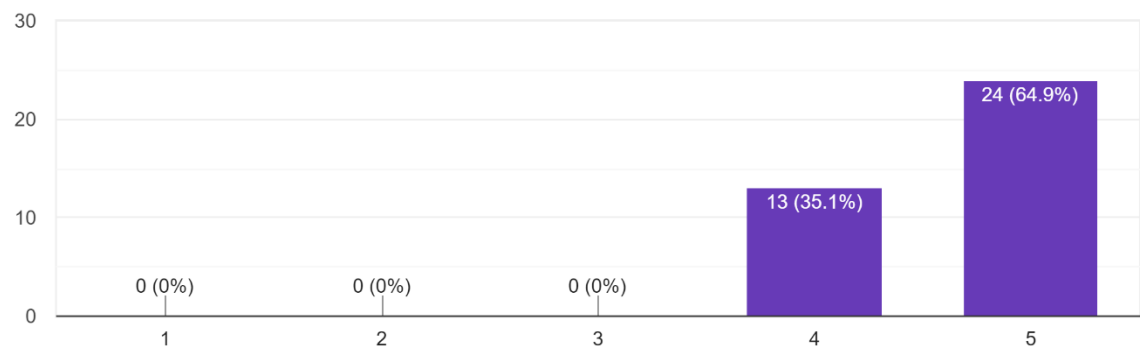
LIST OF PARTICIPANT

REGISTER NUMBER	NAME
39090001	ANIRUDH. R.P
39090002	ARJUN. V.S
39090003	ARUN. K
39090004	ASVIN KUMAR. T
39090006	BUVANESWARAN. S
39090007	CHRIS EDWIN. J
39090008	DEEPAK JEFFERSON. J
39090009	DIVAKAR. S.G
39090010	GUMANAN. P
39090011	GURAJA SIDDARTHA
39090012	JENIS TONY. R
39090013	JORAPH NICHOLAS. R
39090014	JOSEPH THAMBI KOPPADA
39090015	KARTHIKEYAN. S
39090016	KATHIRAVAN. K.R
39090017	KAUSHIK. R
39090018	KISHAAN. B. S
39090019	KISHORE. S.P
39090020	KRISHNA PRASATH
39090022	KRISHNAKAANTH. M
39090023	MELVIN ANDERSON. P
39090024	MOHAMED RASHIK. M
39090025	MOHANA PRAKASH. R
39090026	MOKESHWARAN. V
39090027	MONISHWARAN. K
39090028	MUGHILAN. R.B
39090029	NAGAPATLA YASEER BASHA
39090030	NARENE RICHARD. J
39090031	NAVIN. I
39090032	NEVYA K ABRAHAM
39090033	NIRANJAN. P
39090034	NISHANTH KUMAR. R
39090035	NITHISHKAR. M
39090036	PRABHU RAJA. S
39090037	PRASANNA KUMAR. M
39090038	PRAVEEN KANNAA. U.K

OVERALL FEEDBACK ON THE BOOT MECHATRONICS BOOT CAMP

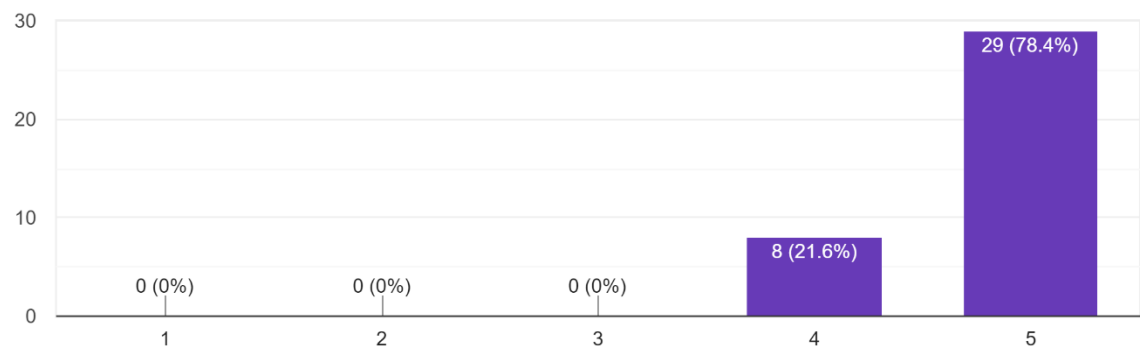
Rate the standard of the course material (PPT, videos, audio-video lectures etc.,)

37 responses



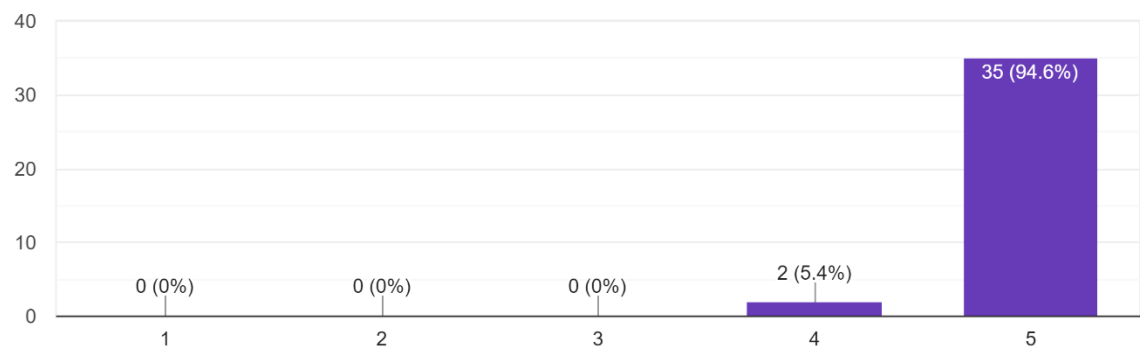
Give your overall rating on the Mechatronics boot camp.

37 responses



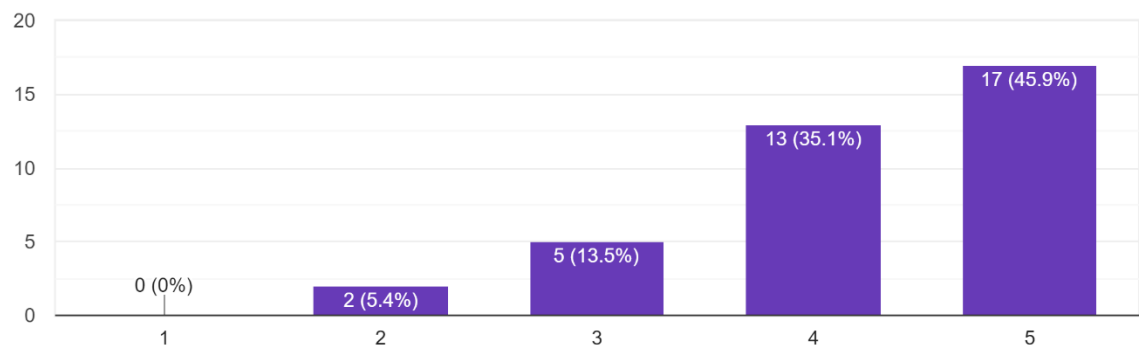
Rate the trainer Mr. Jagmohan in these aspects: involvement, teaching effectiveness, doubt-clearing, friendliness etc.,

37 responses



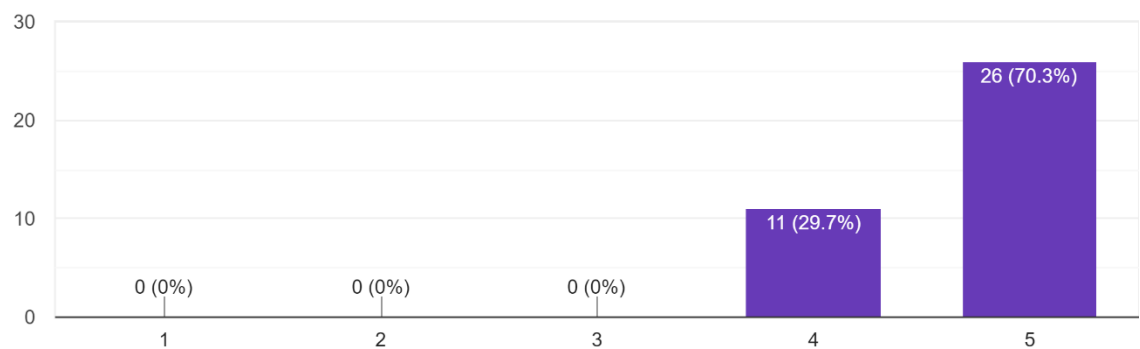
Rate the ambience, lab facilities, network connectivity and other provisions during the camp.

37 responses



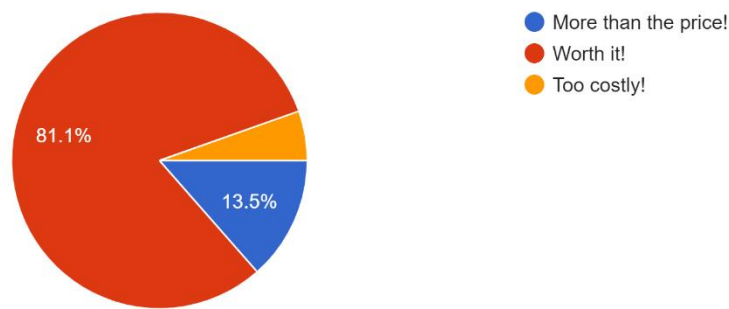
Rate the practical experience and exposure that you gained in this boot camp

37 responses



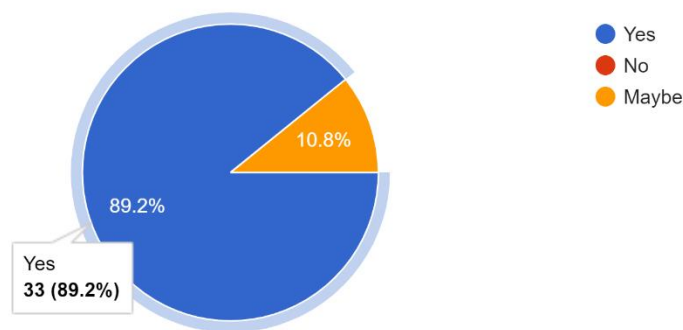
Is the camp worth the price?

37 responses



Would you like to turn up for similar future programmes?

37 responses



SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
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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 Bodies



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: dr.r.b.durairaj@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

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. JSenthilKumar

Assistant Professor

Department of Mechatronics Engineering

Mobile No: 9600260083

Course Coordinator

Dr. J. Lilly Mercy

Assistant Professor

Department of Mechatronics Engineering

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 THREEWEEKS 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