



# **Swami Keshvanand Institute of Technology, Management & Gramothan**

**Approved by AICTE, Ministry of HRD, Government of India  
Recognized by UGC under Section 2(f) of the UGC Act, 1956  
Affiliated to Rajasthan Technical University, Kota**

## **e-Yantra Session: 2021-22**

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# **e-yantra Lab Events Report**

**Session 2021-22**



**Embedded Systems and Robotics Lab  
(in collaboration with IIT Bombay)**



**Swami Keshvanand Institute of Technology,  
Management and Gramothan, Jaipur**

## **Regular activities conducted under e-yantra in** **Session 2021-22**

**Following activities have been conducted in online mode in the session 2021-22 till March 2022:**

<b>S. No.</b>	<b>Date</b>	<b>Mode of the Activity</b>	<b>Name of Event</b>
1	Sept 1 2021 to Sept 2 2021	Online (Google meet)	Robotics: Introduction to Innovation
2	23 December 2020	Online Workshop (WebEx Meet)	Student Workshop on “Introduction to Python Programming”

**Swami Keshvanand Institute of Technology,  
Management & Gramothan**  
Ramnagar (Jagatpura) Jaipur-17

**A  
Report  
on**

**Robotics: Introduction to Innovation**

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**Industrial Training**

**01 September-15 September, 2021**



## **Industrial Training on “Robotics: Introduction to Innovation”**

15 Days (from September 01, 2021 - September 15, 2021) Industrial Training Program on "Robotics: Introduction to Innovation" in online mode under the aegis of Robotics Club, SKIT and Innovation-Skill, NITTTR, Chandigarh and e-Yantra lab, SKIT was conducted. The trainer, Mr. Ajay Godara (CEO, Innovation-Skills) and participants for this training were welcomed by Dr. Mukesh Arora (Head of Department, ECE). In this training, the trainer will demonstrate the students how to make robots along with technical aspects related to robotics.

<b>Student Coordinator</b>	<b>Faculty Coordinator</b>
Saurabh SinghJat	Mr. Brij Mohan Sharma
Kalash Jain	Mr. Sudesh Garg
Bhuvan Sharma	Mr. Praveen Saraswat

## Poster of the Training



# ROBOTICS CLUB SKIT

PRESENTS

## Industrial Training

In Collaboration With

## ENOVATE SKILL

### Speaker



**Ajay Godara**  
Founder & CEO  
Enovate Skill

- Registration fee Rs 500
- Register using Google form
- Certificates will be provided by enovate skill
- Robotics: Introduction to Innovation industrial training (2 Weeks)
  1. Basic Components Testing and Simulation (1 week)
  2. Electronics Circuitry & Microcontroller Programming (Arduino) (1 week)

### VENUE

Online platform

registration link



### DATE

September 01, 2021 to  
September 15, 2021

### Faculty Coordinator

Brij Mohan Sharma - 9571463814  
Lalit Kumar Lata - 9982463217  
Sudesh Garg - 9024693951

### Student Coordinator

Saurabh Singh - 7568598888  
Kalash Jain - 9829262793  
Bhuvan Sharma - 9166266245

 [roboticsclubskit@gmail.com](mailto:roboticsclubskit@gmail.com)

 **ROBOTICS CLUB SKIT**

 **ROBOTICS CLUB SKIT'S**

 [roboticsclubskit](https://www.instagram.com/roboticsclubskit)



## Swami Keshvanand Institute of Technology, Management & Gramothan

### ROBOTICS CLUB

#### Notice

19.08.2021

It is to notify that Robotics Club-SKIT in association with Enovation Lab LLP, NITTTR Campus, Chandigarh is offering 15 days (Sept. 1, 2021 to Sept. 15, 2021) online training (WebEx Platform) on **"ROBOTICS: Introduction to Innovation"**. This training will be useful for B.Tech. II/ IV Semester (ME, CS, IT, ECE, EE) students as it will provide practical exposure in the field of Robotics.

Fees: 500/- (Five Hundred Rupees Only) for the students of SKIT


A/c Name : Enovation Lab LLP, A/c No. : 001305010620

IFSC code: ICIC0000013, Bank Name :ICICI, Sector 9, Chandigarh

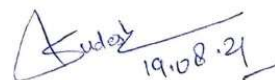
Certificate will be provided after the successful completion of the training by Enovation Lab LLP, NITTTR Campus, Chandigarh.

Interested students may register through following link:

<https://forms.gle/5C9ceW23Fu3EGvcE9>

  
19.08.2021

**Brij Mohan Sharma**  
Coordinator  
Robotics Club

  
19.08.21

**Sudesh Garg**  
Co-Coordinator  
Robotics Club



# *Date Wise Reports*

**Date: 01 Sep.2021**

**Session By: Mr. Ajay Godara**

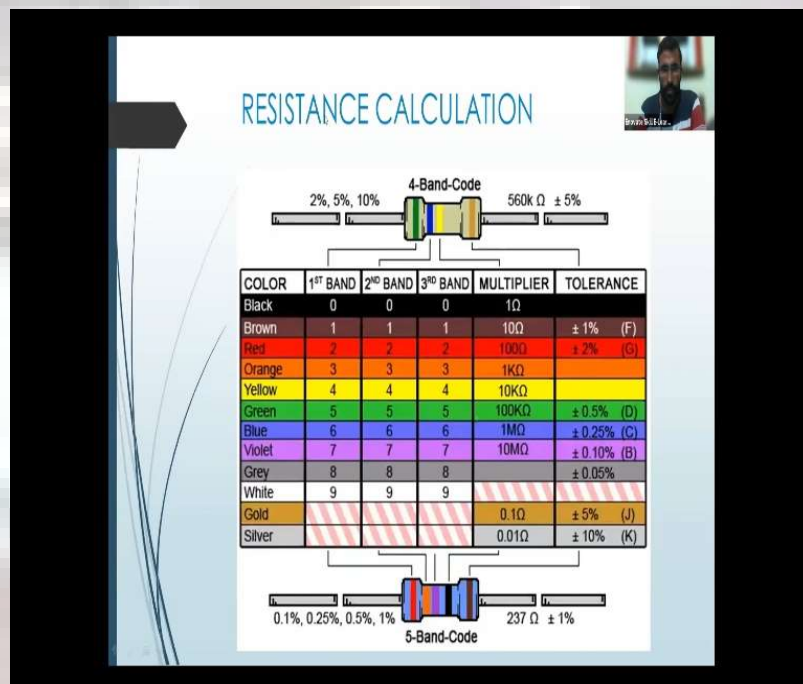
**Topic Covered:**

- Basics of components of Robotics
- Introduction to relevant tools.

**Summary:**

Robotics: Introduction to innovation, an Industrial training programme is organised by robotics club in collaboration with ENOVATE SKILL in online mode. The training programme was conceived and coordinated by the members of the club under the guidance of faculty coordinators. The day started by the introduction of the club followed by welcoming of the speaker Mr. Ajay Godara, founder and director of ENOVATE SKILL, by Dr. Mukesh Arora (HOD,ECE). Mr. Ajay Godara taught the basics of components of robotics like battery, voltage, switches, resistors etc. The session was made more interesting and interactive by the responses of the students for the questions given by Godara. The session was concluded by making circuits and solving some questions.

**Screen Shots:**





**Date: 02 Sep.2021**

**Session By:Mr. Ajay Godara**

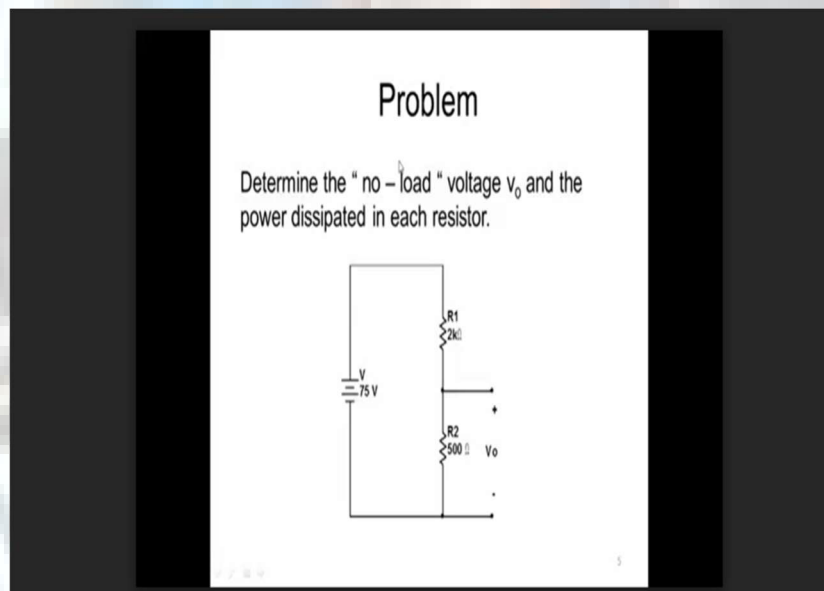
**Topic Covered:**

- Voltage divide rule
- Introduction to microcontroller
- Development Board
- Arduino

**Summary:**

Day 2 of the industrial training programme, Robotics: introduction to innovation, was carried forward by Mr Ajay Godara. The behavior of current and voltage in series and parallel along with the voltage divide rule were taught. The students learned more about the microcontroller and development boards. The session was concluded by explaining Arduino along with the queries of the students.

**Screen Shots:**



**Date: 03 Sep.2021**

**Session By:Mr. Ajay Godara**

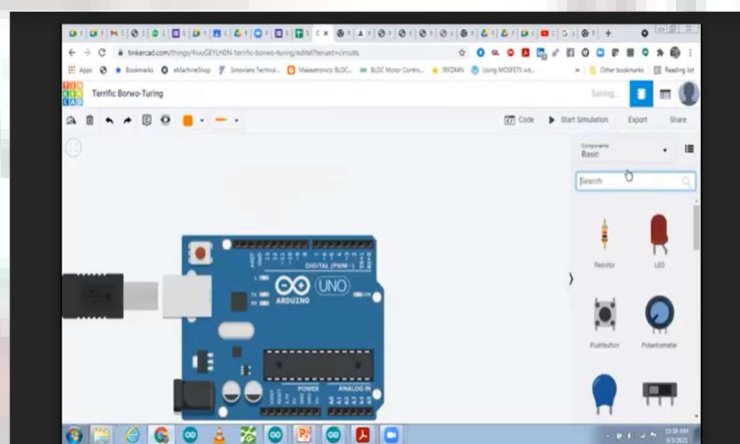
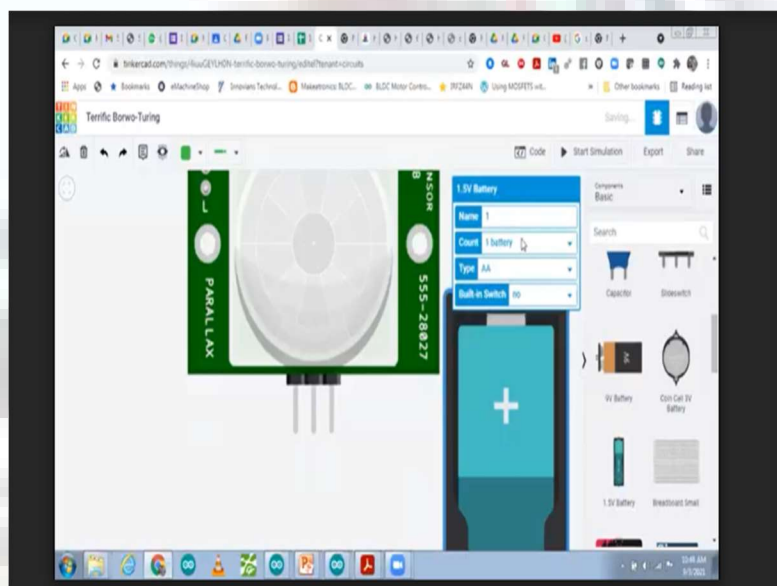
**Topic Covered:**

- Digital input
- PIR Sensor
- Working on scratch software
- Push button

**Summary:**

Day 3 of the industrial training programme, Robotics: introduction to innovation, was carried forward by Mr Ajay Godara. He taught the making of automatic door bell using the PIR sensor. Students also learned about working on scratch software and using Push buttons in easy and interesting way.

**Screen Shots:**



**Date: 04 Sep.2021**

**Session By:Mr. Ajay Godara**

**Topic Covered:**

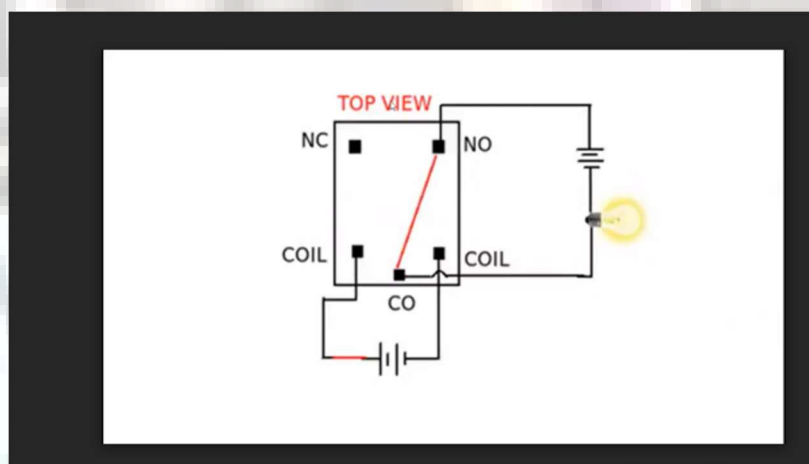
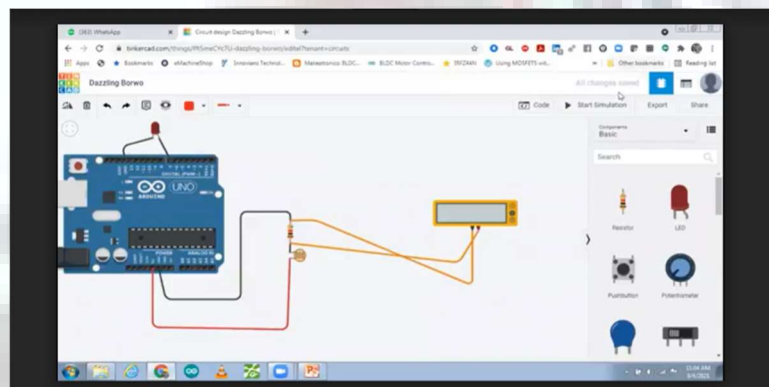
Analog input

- Arduino ADC Calculation
- Interface potentiometer with micrometer
- Analog output by PWM

**Summary:**

The day 4 started by the concept of Analog read and write by Mr. Ajay Godara. The students got to know about the Analog input and some calculations. He taught the construction of automatic street light. Finally the session was concluded by Sir by teaching students the use of pulse width modulation for Analogoutput.

**Screen Shots:**



**Date: 06 Sep.2021**

**Session By:Mr. Ajay Godara**

**Topic Covered:**

Big 6 concepts of embedded C coding

- Structure
- Datatype
- Operators
- Function

**Summary:**

The day 5 of training started by the discussion of topics taught in previous session. Sir Ajay then taught coding for Arduino which included basic concepts like structure, Datatype, operators, functions etc. He then taught the students the proper steps to write the C code for arduino on tinkercad. The session ended with the discussion of the queries related to the topics taught.

**Screen Shots:**

### Local Variables

```
• Void setup () {} Void loop () {  
  int x , y ;  
  int z ; // Local variable declaration  
  x = 0 ;  
  y = 0 ; //actual initialization  
  z = 10 ; }
```

**Date: 07 Sep.2021**

**Session By:Mr. Ajay Godara**

**Topic Covered:**

- Logic for motor driver
- Robot control app and design

**Summary:**

The previous topic was continued by Sir Ajay on day 6. He taught the logic for motor driver, if else condition, while loop and do while loop. He then taught students to control the robot from a mobile using remoteXY . The session ended by discussing queries related to the topic.

**Screen Shots:**

Logic for motor driver						
Action	RHS Motor	LHS Motor	RHS Motor		LHS Motor	
			Pin 2	Pin 7	Pin 10	Pin 15
Move Forward	Clockwise Rotation	Anti-clockwise Rotation	LOW	HIGH	HIGH	LOW
Move Backward	Anti-clockwise Rotation	Clockwise Rotation	HIGH	LOW	LOW	HIGH
Turn Right	Stop	Anti-clockwise Rotation	LOW	LOW	HIGH	LOW
Turn Left	Clockwise Rotation	Stop	LOW	HIGH	LOW	LOW
Stop	Stop	Stop	LOW	LOW	LOW	LOW

Assignment : Robot move forward 5 sec. then stop 5 sec. then turn left 2sec. Then turn right 2 sec. stop.

**Date: 08 Sep.2021**

**Session By:Mr. Ajay Godara**

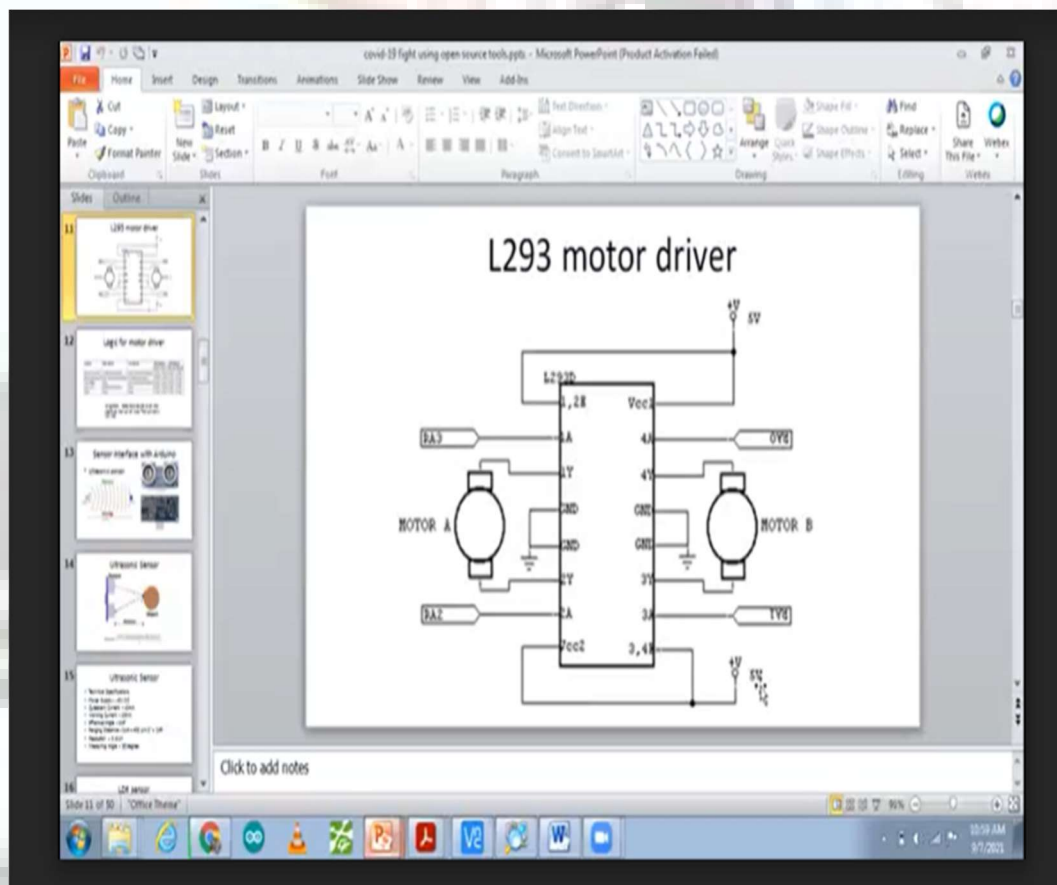
**Topic Covered:**

Connect Arduino with Bluetooth

**Summary:**

The day 7 started by continuing the previous topic which included the connection of mobile to Arduino by Bluetooth. The session was taken by Sir Ajay in which he practically taught the arduino and Bluetooth connections and controlling Robots using mobile app.

**Screen Shots:**



**Date: 09 Sep.2021**

**Session By:Mr. Ajay Godara**

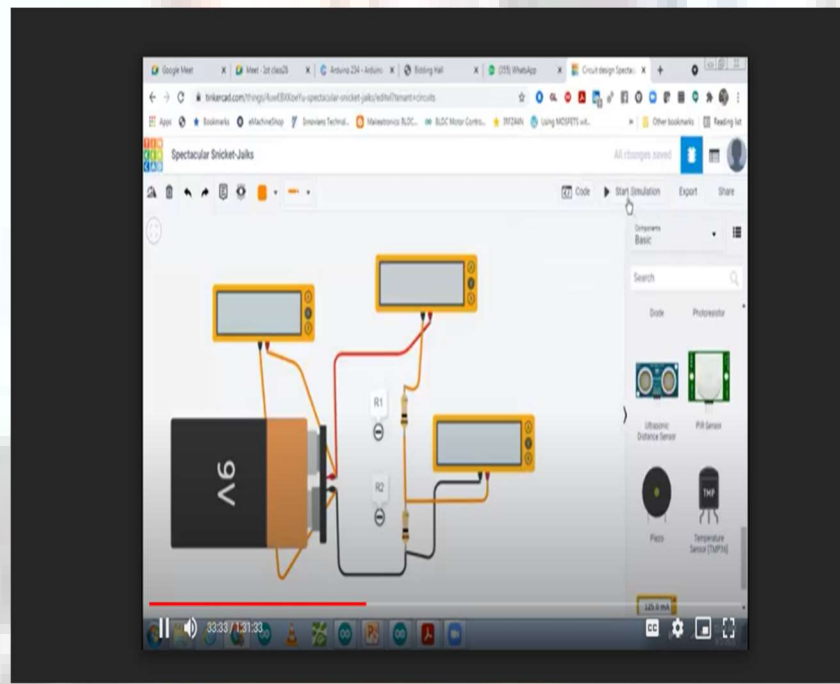
**Topic Covered:**

Control robot with mobile app by joystick

**Summary:**

The session 8th was taken by Sir Ajay Godara. He taught the students to change the properties of joystick on Remote XY and did modifications of basic code necessary to control robot with mobile app by joystick.

**Screen Shots:**





**Date: 10 Sep.2021**

**Session By:Mr. Ajay Godara**

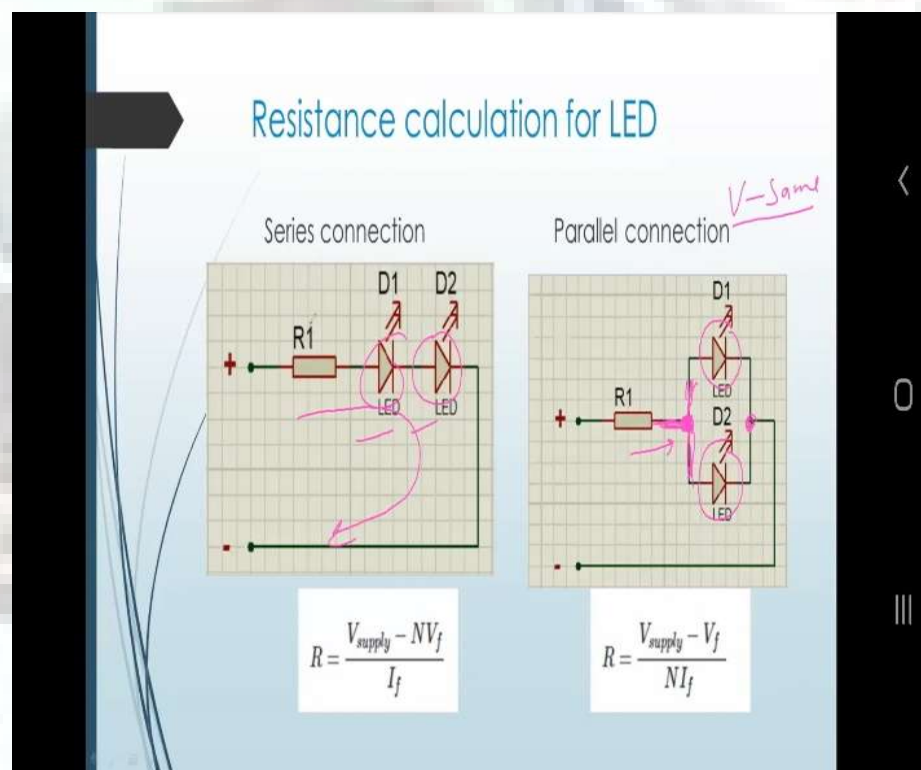
**Topic Covered:**

Working with MIT app

**Summary:**

In the 9th session of Robotics training, Sir Ajay taught students to work with MIT mobile app for control robot. He added that MIT is an open source and customized mobile apps can be made using it. He then taught the coding for the same.

**Screen Shots:**



**Date: 11 Sep.2021**

**Session By:Mr. Ajay Godara**

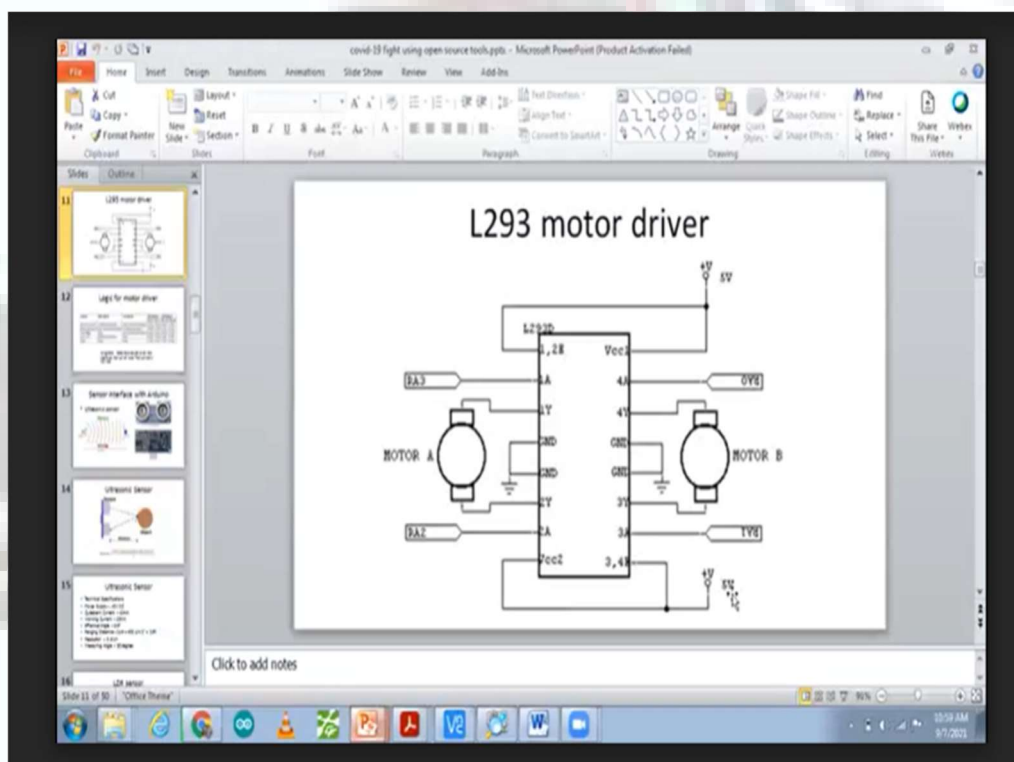
**Topic Covered:**

Advancement of mobile app

**Summary:**

In the 10th session of Robotics training, Sir Ajay taught students to work with mobile app for controlling led, which included reading data from serial monitor etc. Then taught to make mobile app for controlling robot and practically shown the same on Arduino.

**Screen Shots:**



**Date: 13 Sep.2021**

**Session By:Mr. Ajay Godara**

**Topic Covered:**

Different components to make a robot

**Summary:**

The 11th session was taken forward by Sir Ajay, in which design of robot and different components used to make a robot were taught. Later, he showed different sites to buy those components. Lastly, he made a robot and connected it with Bluetooth. The session was ended by the discussion of queries.

**Screen Shots:**

Arithmetic Operators			
Operator name	Operator symbol	Description	Example
assignment operator	=	Stores the value to the right of the equal sign in the variable to the left of the equal sign.	$A = 5 - 1$ $B = 6 * 2$ $A = B$ $A = ?$ $\Rightarrow 6$
addition	+	Two operands	$A + B$ will give 30
subtraction	-	Two operands	$A - B$ will give -10
multiplication	*	Two operands	$A * B$ will give 200
division	/	Divide numerator by denominator	$B / A$ will give 2
modulo	%	Modulus Operator and remainder of after an integer division	$B \% A$ will give 0

**Date: 14 Sep.2021**  
**By:Mr. Ajay Godara**

**Session**

**Topic Covered:**

Different components to make a robot Part-2

**Summary:**

The 12<sup>th</sup> session was taken forward by Sir Ajay, in which design of robot and different components used to make a robot were taught. Later, he showed different sites to buy those components. Lastly, he made a robot and connected it with Bluetooth. The session was ended by the discussion of queries.

**Screen Shots:**



**Date: 15 Sep.2021**

**Session By: Mr. Ajay Godara**

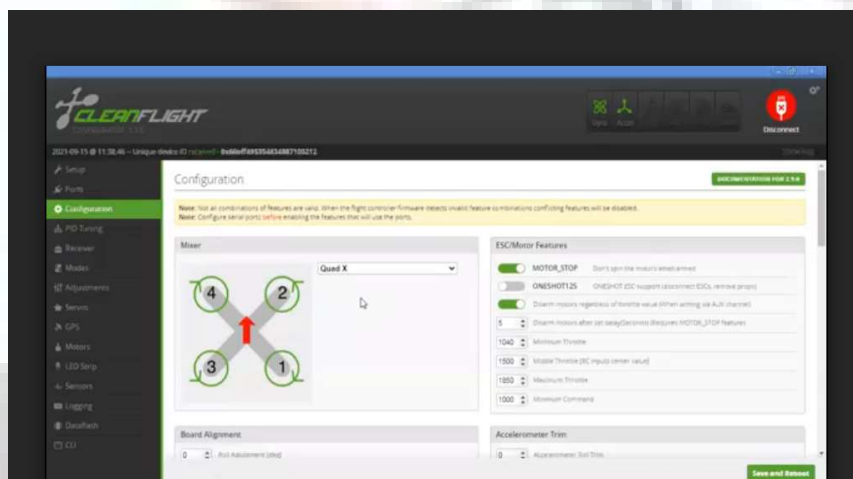
**Topic Covered**

- Design and programming for small scale drone.
- Calibration and connections for small scale drone.
- Introduction to the software i.e. mission planner used for it.



**Summary:**


The 13<sup>th</sup> session was taken forward by Sir Ajay, in which design of drone and different components used to make a drone were taught. Later, he showed different components of drone and taught about the programming of a drone. The session was ended by the discussion of queries.

**Screen Shots:**



## Training in News






Dr. Chhawal Joshi	Sudesh Garg	Ajay Godara	Praveen Jain	Praveen Saraswat
Brij Mohan Sharma	Lalit Lata	Kalash	Saurabh Singh	Bhuvan

### ROBOTICS @SKIT

**S**KIT, Jaipur has organised a 15 days industrial training program (Sept 1 to Sept 15, 2021) on Robotics: introduction to innovation under AICTE-scheme for Promoting Interests, Creativity and Ethics among Students (SPICES). This training program was jointly organised by Robotics club, SKIT and Enovate Skill, a start-up of NITTTR Chandigarh under the MoE, Govt. of India.

The training instructor Ajay Godara, CEO, Enovate Skill spoke about various aspects of technical education to fill the gap between Industry and Academia. The event was coordinated by Brij Mohan Sharma, Lalit Kumar Lata, Sudesh Garg and Pooja Choudhary. —CITY FIRST





## *Attendance (Sept 1, 2021 – Sept 15, 2021)*

SN	Name	Roll No.	Year	Branch	Contact No.	1 Sep.	2 Sep.	3 Sep.	4 Sep.	6 Sep.	7 Sep.	8 Sep.	9 Sep.	10 Sep.	11 Sep.	13 Sep.	14 Sep.	15 Sep.
1	Abhinav Singh	19ESKEC003	II	EC	8824372953	P	P	P	P	P	P	P	P	P	P	P	P	P
2	Abhishek Kumar Kushwaha	19ESKME003	II	ME	9352003898	P	P	P	A	P	P	A	P	P	P	P	P	P
3	Adish Jain	19ESKEC004	II	EC	8005666286	P	P	P	A	P	P	P	A	A	A	P	P	P
4	AJAY KUMAR BURI	19ESKME008	II	ME	9461522766	P	A	P	P	A	P	A	P	P	P	P	A	P
5	Aman khan	19ESKME021	II	ME	9530377377	P	P	P	P	P	A	A	P	A	P	A	A	P
6	AMIR KHAN	19ESKME024	III	ME	9001382245	P	P	P	P	A	P	P	P	P	P	P	P	P
7	AMIT DUBEY	19ESKME025	II	ME	7062170796	P	A	P	P	A	P	P	P	P	P	P	P	P
8	Amit Pareek	19ESKME027	II	ME	9351186905	P	P	P	A	P	P	P	P	P	P	P	P	P
9	Ankur Sharma	19ESKEC015	II	EC	9680874995	P	P	P	P	P	A	P	P	P	P	P	P	A
10	Ansh Gupta	19ESKEC016	II	EC	8209797054	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Anurag Chaudhary	19ESKME300	II	ME	6350249818	P	P	P	P	P	P	P	P	P	P	P	P	P
12	Aryaman Chaudhary	19ESKEC023	II	EC	9413941869	P	P	P	A	P	P	P	P	A	P	P	P	P
13	Aryman Salvi	20ESKME201	II	ME	9571648486	P	P	P	P	P	P	P	P	P	P	P	P	P
14	Ashima Mehta	19ESKEC027	II	EC	8529369727	P	P	P	A	P	A	P	P	P	P	P	A	P
15	Avadhesh Chasta	19ESKEC030	III	EC	8955397002	P	P	P	P	P	P	P	P	P	P	P	P	P
16	Avdhesh behl	19ESKEC031	II	EC	8107262663	A	P	P	P	P	A	P	A	P	P	P	A	P
17	Chinmay	19ESKEE048	II	EE	8619182020	P	P	P	P	P	A	A	P	P	P	A	A	P
18	Darshan Jain	19ESKME050	III	ME	6377796835	P	A	P	P	A	P	A	A	P	P	P	P	P
19	DEEPAK KUMAR YADAV	19ESKME051	II	ME	9931810693	P	P	P	P	P	P	P	A	P	P	P	P	P



SN	Name	Roll No.	Year	Branch	Contact No.	1 Sep.	2 Sep.	3 Sep.	4 Sep.	6 Sep.	7 Sep.	8 Sep.	9 Sep.	10 Sep.	11 Sep.	13 Sep.	14 Sep.	15 Sep.
20	Devaksh Narwara	19ESKME055	II	ME	7339984491	A	A	A	P	A	A	A	A	A	A	A	A	P
21	Devanshi Dadhich	19ESKEC040	II	EC	9950476126	P	P	P	P	A	P	A	P	P	P	A	A	P
22	Devendra kaur	19ESKEC041	II	EC	7023081263	P	P	P	P	A	P	P	P	P	P	P	P	P
23	Devesh Shrimal	19ESKME059	II	ME	9784380346	P	P	P	P	P	P	P	P	P	P	P	P	P
24	Dheeraj Sharma	20ESKME203	II	ME	9352141829	P	P	P	P	P	A	P	P	P	P	P	P	A
25	Dipesh Goyal	19ESKME061	III	ME	8824805691	P	P	P	P	P	P	P	A	A	A	P	P	P
26	Divya Ramani	19ESKEC042	II	EC	8529379437	P	P	P	P	A	P	P	P	P	P	P	P	P
27	DIVYANSH CHA- TURVEDI	19ESKME063	II	ME	9828579480	P	P	P	A	A	A	A	P	P	P	A	A	P
28	Eshita Goyal	19ESKEC044	II	EC	7357144054	A	P	A	P	P	P	P	A	P	P	P	P	P
29	Gaurav kumar	19ESKME066	II	ME	9142724790	P	P	P	A	A	P	P	P	P	P	P	P	P
30	Gaurav Raj	19ESKEC303	II	EC	8226839272	P	A	P	P	A	P	P	P	P	P	P	P	P
31	Hansika Agarwal	19ESKEC049	II	EC	9352343060	P	P	P	P	P	P	P	P	P	P	P	P	P
32	Hanu Singh Kumawat	19ESKEC050	II	EC	8741855518	P	P	A	P	P	P	A	P	P	P	P	A	P
33	HARBEET	19ESKME069	II	ME	9352601715	A	P	P	P	P	P	P	P	P	P	P	P	P
34	Hardik tyagi	19ESKEC051	III	EC	9354152107	P	P	A	P	P	P	P	P	P	P	P	P	P
35	Harsh Sharma	19ESKME072	II	ME	7568323943	P	P	P	P	P	P	P	P	P	P	P	P	P
36	Harshit Sharma	19ESKEC055	II	EC	9414807824	P	P	P	P	A	A	P	P	P	P	P	P	P
37	Harshit Verma	19ESKEC056	II	EC	7230973618	P	P	P	P	A	P	P	P	P	P	P	P	P
38	HEMANT YOGI	19ESKME075	II	ME	9602351762	P	P	P	P	A	P	A	A	A	A	A	A	P
39	Jai Veer Singh	19ESKEC059	II	EC	8824715435	P	P	P	A	P	P	P	P	A	P	P	P	P
40	Jatin Chaudhary	19ESKME079	II	ME	9610758205	P	P	P	P	A	P	A	P	A	P	A	A	P

SN	Name	Roll No.	Year	Branch	Contact No.	1 Sep.	2 Sep.	3 Sep.	4 Sep.	6 Sep.	7 Sep.	8 Sep.	9 Sep.	10 Sep.	11 Sep.	13 Sep.	14 Sep.	15 Sep.
41	Jatin Kumar Yadav	19ESKME080	III	ME	9166604527	P	P	P	P	A	P	P	P	P	P	P	P	P
42	JAY SHRIVASTAVA	19ESKEC060	II	EC	7727020663	P	P	P	P	A	P	P	A	P	A	P	P	P
43	Jayant Kumar Mehra	19ESKEC061	III	EC	8209127594	P	A	P	P	P	A	P	P	A	P	P	P	P
44	Jigyasa Karodiwal	19ESKEC062	II	EC	8209442690	P	P	P	P	A	P	P	P	P	P	P	P	P
45	Karan soni	19ESKME083	II	ME	9929792004	P	P	P	P	A	P	A	A	P	A	P	A	P
46	Kartik sharma	19ESKEC065	II	EC	8769608447	P	P	P	P	P	P	P	P	P	A	A	P	P
47	Keshav Meena	19ESKEC067	II	EC	9413331468	P	P	P	A	A	P	P	A	A	A	P	P	P
48	Khushank Sharma	19ESKME084	III	ME	8306139038	A	A	A	P	A	A	P	A	P	A	P	P	P
49	Komal yadav	19ESKME085	II	ME	9982754444	P	P	P	A	A	A	P	P	A	P	P	P	P
50	kratik khandelwal	19ESKEC071	II	EC	8200981055	A	A	A	A	P	P	P	P	P	P	P	P	P
51	Kuldeep Sharma	19ESKME087	II	ME	6377624559	P	P	P	P	P	P	P	P	P	P	P	P	P
52	KUMARI RIDHI	19ESKEC072	II	EC	8544081085	P	P	P	P	P	P	P	P	P	P	P	P	P
53	KUMARI SIDHI	19ESKEC073	II	EC	8757619005	P	P	P	P	P	P	P	P	P	P	P	P	P
54	Kunal Colin Williams	19ESKME088	II	ME	9079296742	P	P	P	P	P	P	P	P	P	P	P	P	P
55	Kunal Maniwal	19ESKME089	II	ME	9982809132	P	P	P	P	P	P	P	A	P	A	P	P	P
56	Kunal Verma	19ESKEC074	II	EC	7051941267	P	A	P	P	P	P	P	P	P	P	P	P	P
57	KUSUM SHARMA	19ESKEC075	II	EC	9352550114	P	P	A	P	P	P	A	P	P	P	A	A	P
58	Labhansh Sharma	19ESKME091	II	ME	7688846379	P	P	P	A	P	A	P	P	P	P	P	A	P
59	Lalit Sharma	19ESKME092	II	ME	7424877611	P	P	P	P	A	P	P	P	P	P	P	P	P
60	LOVENASH SINGHAL	19ESKME095	II	ME	9079603076	P	P	P	P	A	P	P	P	P	P	P	P	P
61	Madhur	19ESKME096	IV	ME	8114453393	A	P	A	P	A	A	P	A	P	A	P	P	P

SN	Name	Roll No.	Year	Branch	Contact No.	1 Sep.	2 Sep.	3 Sep.	4 Sep.	6 Sep.	7 Sep.	8 Sep.	9 Sep.	10 Sep.	11 Sep.	13 Sep.	14 Sep.	15 Sep.
62	Malika Khandelwal	19ESKEC077	II	EC	7611824253	P	P	P	P	P	P	P	P	P	P	P	P	P
63	Manisha Balani	19ESKEC080	III	EC	9461832843	P	A	P	P	P	P	P	P	P	P	P	P	P
64	Manoj Garg	19ESKEC081	II	EC	8952827012	P	P	P	P	P	A	P	A	A	A	P	P	P
65	Mansha Modi	19ESKEC083	II	EC	9252035441	P	P	P	P	P	P	P	P	P	P	P	P	P
66	Manuraditya Singh hada	19ESKME098	II	ME	9352323507	P	P	P	A	P	P	P	P	P	P	P	P	P
67	Mohd Mateen Joad	19ESKME099	II	ME	7976367725	P	A	P	A	P	P	P	P	P	P	P	P	P
68	Mohit Ola	19ESKME101	II	ME	9929854176	P	P	P	A	P	P	P	P	P	P	A	P	A
69	Mukul garg	19ESKME103	II	ME	7425934722	P	P	P	P	P	P	P	P	P	P	P	P	P
70	MUKULDANGAYACH	19ESKME102	II	ME	6377299671	P	P	P	A	A	P	P	P	P	P	P	P	P
71	Mulkit Sain	19ESKEC090	II	EC	9588236602	P	P	P	P	P	P	P	P	P	P	P	P	P
72	Muskan Rangrej	19ESKME104	III	ME	8005537338	P	A	P	P	P	A	P	P	A	P	P	P	P
73	Navdeep Singh Rathore	20ESKME206	II	ME	9983521000	P	P	P	P	A	P	P	A	P	A	P	P	P
74	Naveen Choudhary	19ESKME107	II	ME	9772289774	P	A	P	P	P	P	A	P	P	P	A	A	P
75	Neha Maheshwari	19ESKEC092	II	EC	8955439606	P	P	P	P	P	P	P	P	P	P	P	P	P
76	NIKHIL PANDEY	19ESKME108	II	ME	8102154451	P	P	P	P	P	P	P	P	P	P	P	P	P
77	Nishant kumar	19ESKEC093	II	EC	7979072025	P	P	P	P	P	P	P	A	P	A	P	P	P
78	Ojasvee Sharma	19ESKME110	II	ME	9079210558	P	P	P	P	P	A	A	P	P	P	A	A	P
79	Pawas Bansal	19ESKME113	II	ME	8890561410	P	A	P	P	P	P	A	P	P	P	A	P	P
80	Pooja jangid	19ESKEC097	II	EC	7424851268	P	A	P	P	A	P	A	P	A	P	P	P	P
81	Pradeep Kumar Pra-japati	19ESKME114	II	ME	8764656441	P	P	P	P	P	P	P	A	P	A	P	P	P
82	Prakhar gaur	19ESKME116	IV	ME	8890318202	P	A	P	P	P	P	P	P	P	P	P	P	P

SN	Name	Roll No.	Year	Branch	Contact No.	1 Sep.	2 Sep.	3 Sep.	4 Sep.	6 Sep.	7 Sep.	8 Sep.	9 Sep.	10 Sep.	11 Sep.	13 Sep.	14 Sep.	15 Sep.
83	Prateek Tholiya	19ESKEC099	II	EC	8385039769	P	P	P	P	A	P	A	P	A	P	A	A	P
84	Pratik Singh	19ESKEC100	II	EC	9116976706	P	P	P	P	P	P	P	P	P	P	P	P	P
85	Pratyush Solanki	19ESKME118	II	ME	7895760417	P	P	P	P	A	A	A	A	A	A	A	A	P
86	PRITUL NEHRA	19ESKME120	II	ME	6378193373	P	P	P	P	A	A	P	A	A	A	P	P	P
87	Priyanshu Lohar	19ESKEC102	II	EC	8696026172	P	P	P	A	P	P	P	P	P	P	P	P	P
88	PULKIT GUPTA	19ESKEC104	II	EC	7300412230	P	P	P	P	A	A	A	P	P	P	A	A	P
89	Raghav Agarwal	19ESKEC106	II	EC	9460066410	P	P	P	P	P	P	P	P	P	P	P	P	P
90	Rahul Kumar Balai	19ESKEC108	II	EC	9136763538	P	P	P	P	P	P	P	P	P	P	P	P	P
91	Raj goyal	19ESKME131	II	ME	7568038995	P	P	P	P	A	P	A	P	P	P	A	A	P
92	Rajat Gupta	19ESKEC109	III	EC	9521799025	P	P	P	P	A	P	A	P	A	P	A	A	P
93	Rakshita Agarwal	19ESKEC110	II	EC	7014194580	P	A	P	P	A	P	A	P	A	P	A	A	P
94	Ranveer singh	19ESKME135	II	ME	9928088430	P	P	P	P	P	P	P	P	P	P	P	P	P
95	Rashi Kinra	19ESKEC111	II	EC	8952043150	P	A	A	A	P	A	P	P	P	P	P	P	P
96	Rashi Sharma	19ESKEC112	II	EC	9352967782	A	A	A	P	P	P	P	P	P	P	P	P	P
97	Ravi RAJ	19ESKME138	II	ME	9155880860	P	P	P	A	A	P	A	P	A	P	A	A	P
98	Ritik sharma	19ESKME141	IV	ME	6378037403	P	P	P	P	P	P	P	P	P	P	P	P	P
99	ROHAN JAIN	19ESKME142	II	ME	8963075754	P	P	P	A	A	A	P	P	P	P	P	P	P
100	Rohan Sharma	19ESKME143	II	ME	7895510307	P	P	P	P	A	P	P	A	P	A	P	P	P
101	Rohit Haridasan	19ESKME145	II	ME	9747737042	P	A	P	P	P	P	P	A	P	P	P	A	P
102	Roshan Kumar Jha	19ESKEC115	II	EC	8875251033	P	P	P	A	A	P	P	P	P	P	P	P	P
103	RUDRA PRATAP SINGH	19ESKEC116	II	EC	9024736300	P	P	P	P	P	A	P	P	P	A	P	P	P

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104	Saloni Chhparwal	19ESKEC117	II	EC	6378830034	P	P	P	P	P	P	P	P	P	P	P	P	P
105	Samriti devi	19ESKEC118	III	EC	6005530978	P	A	P	P	P	A	P	P	P	P	P	P	P
106	Sanjana Jawaria	19ESKEC119	II	EC	7976309806	P	P	P	P	A	P	P	A	P	A	P	P	P
107	Sarim Ur Rehman	19ESKEC121	II	EC	8386082151	P	P	P	P	A	P	P	P	P	P	P	P	P
108	Sarthak Bhatia	19ESKEC122	II	EC	9106638471	P	P	P	P	A	A	P	P	A	P	P	P	P
109	Sarthak Sharma	19ESKEC123	II	EC	9352434721	P	P	P	P	A	P	P	P	P	P	P	P	P
110	Saurabh choudhary	19ESKEC124	II	EC	9887071793	P	P	P	P	P	P	P	P	P	P	P	P	P
111	Saurabh Singh Jat	19ESKEC125	II	EC	7568598888	P	P	P	P	P	P	P	P	P	P	P	P	P
112	Sharad sourabh jha	19ESKEC126	II	EC	8764022027	P	P	P	P	A	P	P	P	A	P	P	P	P
113	Shashi Ranjan	19ESKME154	III	ME	7300261993	A	P	A	P	P	P	P	P	P	P	P	P	P
114	Shivam Garg	19ESKEC128	III	EC	9352195056	P	P	A	P	P	A	P	A	P	P	P	A	P
115	Shivansh Dosi	19eskec129	II	EC	9461168494	P	P	P	P	P	P	P	P	P	P	P	P	P
116	Shubham Jain	19ESKEC130	III	EC	7231009171	P	P	P	P	A	P	P	P	P	P	P	P	P
117	Siddharth Harshit	19ESKEC131	II	EC	8741878557	P	P	P	A	P	P	P	P	A	P	P	P	P
118	Siddhi Saxena	19ESKEC132	II	EC	8650737364	P	P	P	P	A	P	P	P	P	P	P	P	P
119	Simran Rathore	19ESKEC133	II	EC	9610375621	P	P	P	P	P	P	P	P	P	P	P	P	P
120	Smriti Sharma	19ESKEC302	III	EC	7300099868	P	A	P	P	P	P	A	P	P	P	A	A	P
121	Somil jain	19eskec134	II	EC	8824041513	P	P	P	P	A	P	P	P	P	P	P	P	P
122	Sonali Nishad	19ESKEC135	II	EC	7597077823	P	P	P	P	P	A	P	P	P	P	P	P	P
123	Soumya Agarwal	19ESKEC136	II	EC	7300177089	P	P	P	A	P	A	P	P	A	P	P	P	P
124	Suhani jain	19ESKEC138	II	EC	9610810080	P	P	P	P	P	P	P	A	P	A	P	P	P

SN	Name	Roll No.	Year	Branch	Contact No.	1 Sep.	2 Sep.	3 Sep.	4 Sep.	6 Sep.	7 Sep.	8 Sep.	9 Sep.	10 Sep.	11 Sep.	13 Sep.	14 Sep.	15 Sep.
125	Sumit Gupta	19ESKEC139	III	EC	9460506911	P	P	P	P	A	P	P	P	P	P	P	P	P
126	Tanu Gambhir	19ESKEC141	II	EC	8824006282	P	P	P	P	P	P	P	P	P	P	P	P	P
127	Udiesha gautam	19ESKEC146	II	EC	8824044797	P	P	P	P	P	P	P	P	P	P	P	P	P
128	Utsav jain	19ESKEC147	II	EC	9462376084	P	A	P	A	P	P	A	P	A	P	P	A	P
129	Vansh Agrawal	19ESKEC149	II	EC	9680386922	P	A	P	A	A	P	A	A	P	A	P	P	P
130	Vishal Dandia	19ESKEC153	II	EC	6005748136	P	P	P	P	A	P	P	A	P	A	P	P	P
131	Vishnu kumar	20ESKME092	II	ME	6367 751 858	P	P	P	A	P	A	A	A	P	P	P	P	P
132	Yaman Kumar Malik	19ESKEC155	IV	EC	8824162632	P	P	P	P	A	P	P	P	P	P	P	P	P
133	Yash Mathur	19ESKME173	II	ME	8849867920	P	P	P	P	P	A	A	P	P	P	A	A	P
134	Yash Raj Mishra	19ESKEC157	II	EC	9352425884	P	A	P	P	P	P	P	P	P	P	P	P	P
135	Yatharth jain	19ESKEC158	II	EC	9352369181	P	P	P	A	A	P	A	P	P	P	P	P	P
136	Yayati	19ESKEC159	III	EC	7014372906	P	P	P	A	A	P	P	P	P	P	P	P	P
137	Yogendra Singh Shek-hawat	19ESKME175	III	ME	7726888790	P	P	A	A	P	P	P	P	P	A	P	P	P
138	Yogesh Kumar singh	19ESKME176	II	ME	8742027879	P	P	P	P	A	P	P	P	P	P	P	P	P
139	Yogesh sharma	19ESKEC160	III	EC	9680253891	P	P	P	P	P	P	A	P	A	P	A	A	P

## Sample -Certificate





**A**

**Report on**  
**Student Workshop on “Introduction to Python**  
**Programming”**

**(27-29 January, 2022)**



**Organized by**  
**Department of Mechanical Engineering**  
**e-Yantra lab, SKIT and IETE student chapter**  
**Swami Keshvanand Institute of Technology, Management & Gramothan,**  
**Jaipur**

**Swami Keshvanand Institute of Technology, Management & Gramothan,  
Jaipur**

**Department of Mechanical Engineering**

Department of Mechanical Engineering, association with e-Yantra lab, SKIT & IETE student chapter, SKIT is organizing three days student workshop on "Introduction to Python Programming" from 27-29 January, 2022 in online mode. This workshop is very helpful for all branch students to learn python from scratch to application.

The event and budget have already approved by the management. The approval document is attached herewith this note.

The details of workshop are as follows:

Event name: Student workshop on Introduction to Python Programming

Target audience: I year & II year (all branch)

Dates: 27-29 January, 2022

Online platform: Webex system

Organizing committee:

Dr. Manoj Kumar Sain

Dr. Achin Srivastav

Mr. Praveen Saraswat

Dr. Chandan Kumar

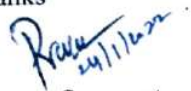
Mr. Ankit Agarwal


Mr. Ankit Vijayvargiya

The technical sessions of workshop will be provided by the experts.

Kindly approved the workshop.

Thanks

  
Praveen Saraswat  
Coordinator  
e-Yantra lab, SKIT

  
Dr. Dheeraj Joshi  
Head, Deptt. of Mech. Engg.

may be permitted &  
forwarded for consideration  
for payment.

## **Poster of FIP**



**Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur**

**Department of Mechanical Engineering**

**in association with**

**E-Yantra Lab, SKIT and**

**IETE Student Forum (SKIT- ISF)**

**Organizes**

**Student Workshop**

**on**

**Introduction to Python Programming**

**( 27-01-2022 to 29-01-2022 )**

**Platform:** Online (via Webex)

**Topics**

- **Basics of Python**
- **Importance and Application of Python**
- **Hands-on Sessions on Python Programming**
- **Minor Project on Python Programming**

**Speakers:** Eminent Speakers from reputed Institute/Organization

### **Faculty Coordinators**

Dr. Manoj Kumar Sain (ME)

Dr. Achin Srivastav (ME)

Mr. Praveen Saraswat(ME)

Dr. Chandan Kumar (ME)

Mr. Ankit Agarwal (ECE)

Mr. Ankit Vijayvargiya(EE)

Ms. Namita Soni (ME)

For Registration: **<https://forms.gle/eK6UnnFk2RA651NL7>**

For more Information mail us to **[eyantra@skit.ac.in](mailto:eyantra@skit.ac.in)**

or Contact on **+91-9785018458**

## **About Workshop**

### **Introduction:**

A Three days Student Workshop on “Introduction to Python Programming” which is jointly organized by Department of Mechanical Engineering, E-yantra Lab, and IETE Student Forum, SKIT from 27-29 January 2022 in the Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur. The workshop had the prime objective to introduce the concept and techniques of Python Programming which was successfully met by the informative lecture of the Experts.

Python, one of the most popular programming languages in the world, has created everything from Netflix’s recommendation algorithm to the software that controls self-driving cars. Python is a general-purpose language, which means it’s designed to be used in a range of applications, including data science, software and web development, automation, and generally getting stuff done.

### **Objectives of workshop:**

Some other specific objectives which were targeted in this Workshop were:

- To acquaint participants with Python Programming.
- To provide an exposure to Python libraries.
- To impart the basic knowledge of Python.
- To provide hands-on-experience to Python Programming.

### **Outcomes of Workshop:**

Students will be able to:

1. Understand the importance and application of python programming
2. Explain the basics of python programming
3. Develop the programs based on python language

**No. of Participants – 209**

## **Brief Profiles of Speaker**



**Mr. Aryan Singh**  
**Chief Technology Officer (CTO)**  
**TensaX Innovation Lab, Jaipur**

- Mr. Aryan is tech-entrepreneur and developer of decentralized artificial intelligence applications. He involved in multiple R&D projects in the field of artificial intelligence, machine learning and blockchain etc.
- He attended a precollegiate program on general studies including computer science, Cryptography and Biotechnology in 2017 at Stanford University. He also participates in Entrepreneurship program at Massachusetts Institute of Technology in 2018.
- He is Head planner of Sunday Pathshaala an initiative of easytech.org to educate the underprivileged children in rural parts of India and Africa.
- Mr. Aryan is also a co-founder of "Smart Medicine Hub". This is a MIT LaunchX startup at Boston, USA. He writes a book titled "Artificial Intelligence & Beyond" in 2018.

<b>S. No.</b>	<b>Name of Resource Person</b>	<b>Designation</b>	<b>Organization</b>
1	Mr. Aryan Singh	Chief Technology Officer	TensaX Innovation Lab Jaipur
2	Dr. Vishu Gupta	Head of Research	TensaX Innovation Lab Jaipur
3	Mr. Ayush Swami	Trainer	TensaX Innovation Lab Jaipur



## Schedule of Workshop

**Swami Keshvanand Institute of Technology, Management  
& Gramothan, Jaipur**

**Department of Mechanical Engineering**

**&**

**e-Yantra lab, SKIT and IETE student chapter**

**Student Workshop on “Introduction to Python Programming”**

**27-29 January, 2022**

### Schedule of Workshop

Dates	Session-I (9:30 AM- 11:00 AM)		Session-II (12:00 PM-1:30 PM)
27/1/2022 (Day-1)	<b>Inauguration</b> (9:00 - 9:30 AM)	• Introduction to fundamentals of programming	• Live online coding learning session
28/1/2022 (Day-2)	• Introduction to Arduino and Raspberry Pi		• Live online coding learning session
29/1/2022 (Day-3)	• Introductions to fundamentals of Artificial Intelligence and Machine Learning		• Live online coding learning session

**Joining Links (Password: 1234)**

**Day-1:**

<https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=e037ed8af4052d7d39889d5c4705901ef>

**Day-2:**

<https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=e8c928ea3684ccdce884fad9d8c734b0>

**Day-3:**

<https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=eeb42eaa2beffd83ac3b5e69f8d1b63e1>

## **Participation List**

<b>S. No.</b>	<b>Name of Participant</b>	<b>Name of Institute</b>	<b>Email Id</b>
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37	Anurag Yadav	Veer Bahadur Singh Purvanchal University Jaunpur	ay936363@gmail.com
38	Anushka Panicker	Swami Keshvanand Institute of Technology, Management & Gramothan	anupanicker1917@gmail.com
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42	Aravi Sharma	Swami Keshvanand Institute of Technology, Management & Gramothan	b210331@skit.ac.in
43	Arpit Kumar Gupta	Swami Keshvanand Institute of Technology, Management & Gramothan	B210625@skit.ac.in
44	Arun Yadav	Uma Nath Singh Institute of Engineering and Technology	arun.yadav3103@gmail.com
45	Arushi Hinger	Swami Keshvanand Institute of Technology, Management & Gramothan	B210894@skit.ac.in
46	Arya Negi	Swami Keshvanand Institute of Technology, Management & Gramothan	B211193@skit.ac.in
47	Aryan Banerjee	Swami Keshvanand Institute of Technology, Management & Gramothan	aryanbanerjee.029@gmail.com
48	Aryan Soni	Swami Keshvanand Institute of Technology, Management & Gramothan	aryan.soni1102@gmail.com
49	Asheesh Pal	Veer Bahadur Singh Purvanchal University Jaunpur	ashishakp86@gmail.com
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# Inaugural Program



**Swami Keshvanand Institute of Technology Management &  
Gramothan, Jaipur**

**Student Workshop  
on  
“Introduction to Python Programming”  
(27-29 January, 2022)**

**Organized by**  
**Department of Mechanical Engineering  
&  
e-Yantra lab, SKIT and IETE student chapter**

Invitation for  
***Inaugural Session***  
(27 January, 2022 at 9:00 a.m. onwards)

(Minute to Minute Program)

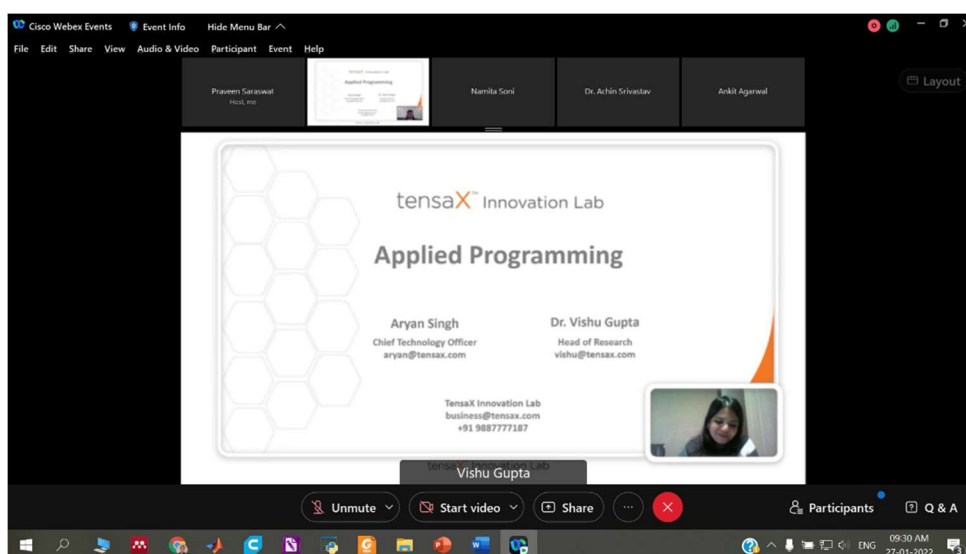
Event Description	Duration
<b>Introduction</b>	<b>2 Minutes</b>
<b>Welcome Address</b> <i>Prof. Dheeraj Joshi, Head ME, SKIT</i>	<b>5 Minutes</b>
<b>About workshop</b> <i>Dr. Achin Srivastav, Workshop Coordinator, SKIT</i>	<b>5 Minutes</b>
<b>Address by the Guest</b> <i>Mr. Aryan Singh Chief Technology Officer (CTO) TensaX Innovation Lab, Jaipur</i>	<b>10 Minutes</b>
<b>Vote of Thanks</b> <i>Dr. Chandan Kumar, Workshop Coordinator, SKIT</i>	<b>3 Minutes</b>

## Inauguration of Workshop

The inaugural ceremony of three days online Student Workshop on “Introduction to python programming” organized by the Department of Mechanical Engineering in association with E-Yantra lab SKIT and IETE Student Forum, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur was held on Wednesday, 27th January, 2022. Prof. Dheeraj Joshi, Head, Mechanical Engineering addressed the workshop by welcoming all the guests, speakers and participants.

Dr. Achin Srivastav, Workshop Coordinator, highlighted the brief introduction about the workshop and its contents. More than 600 students have registered for this workshop all over the country. Mr. Aryan Singh, CTO, TensaX Innovation lab, Jaipur was the Guest of the program. He discussed the importance the python programming in career of students. He also explained about the application part of pyhton programming in block chain, artificial intelligence and data analytics areas.

In the end, Mr. Praveen Saraswat, Associate Professor gave the vote of thanks to guest and participants. The session was anchored by Ms. Namita Soni and Mr. Ankit Agarwal.



## Day-1 Sessions

In the first session, Mr. Aryan Singh introduced the fundamentals of Python on the first day as it built a foundation to learn and understand Python. Dr. Vishu Gupta explained the relevance and applications of Python. Mr. Praveen Saraswat handled the queries of participants and delivered the vote of thanks.

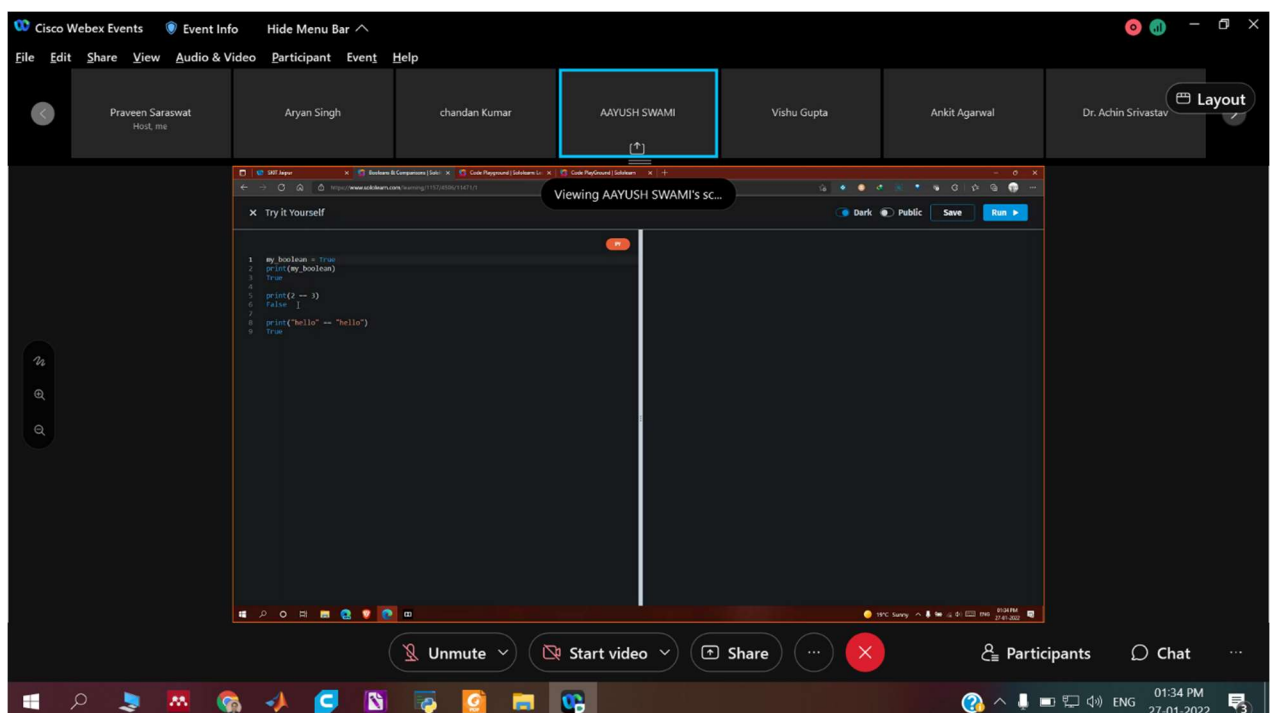
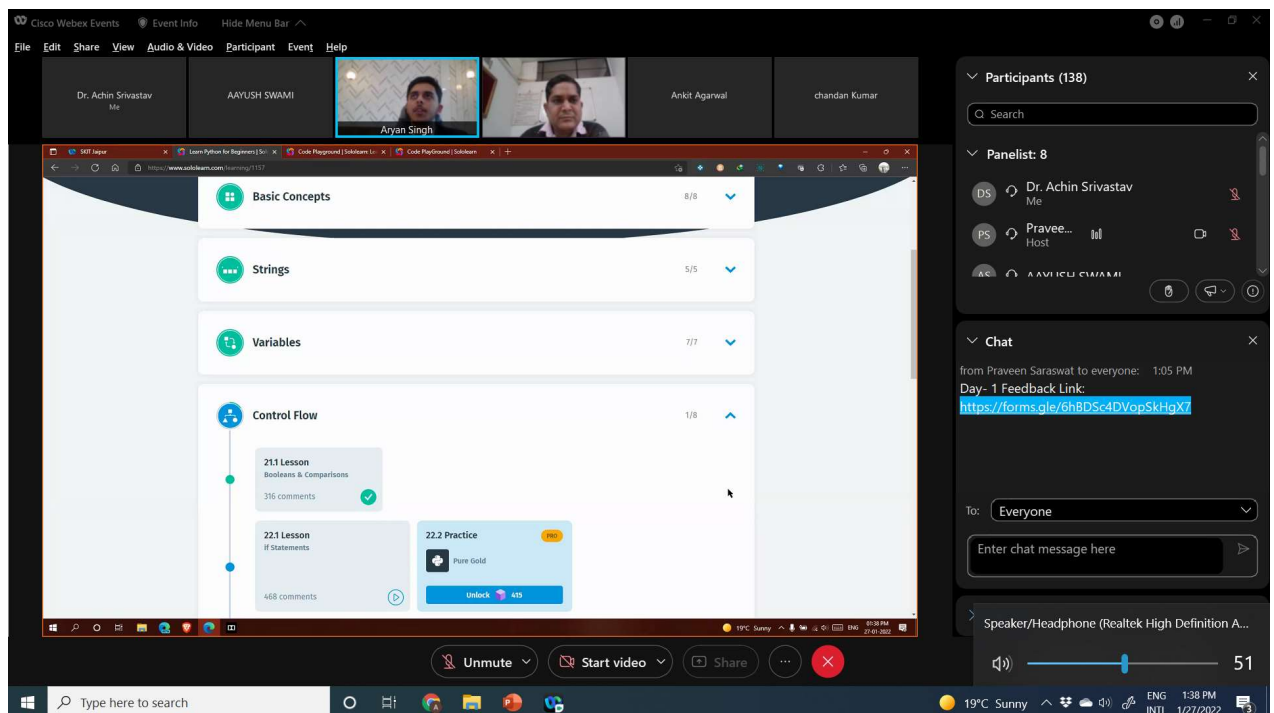
The screenshot shows a Cisco Webex Events interface. The main presentation slide is titled "Where is it applied?" and features nine hexagonal icons representing various applications of Python: Website Development, Data Management, Security, Office Tasks, Client Management, Data Analysis, Energy Management, Automation, and Artificial Intelligence. The presenter, Aryan Singh, is visible in a small video window at the bottom right of the slide. The right sidebar shows a list of participants (179) and a Q & A section. The bottom status bar indicates the date as 27 January 2022 and the time as 9:50 AM.

The screenshot shows a Cisco Webex Events interface. The main presentation slide is titled "2019 sees record funding to AI startups at \$26.6B". It features a bar chart showing the amount of funding in billions of dollars from 2014 to 2019, and a line graph showing the number of deals from 2014 to 2019. The presenter, Aryan Singh, is visible in a small video window at the bottom right of the slide. The right sidebar shows a list of participants (177) and a Q & A section. The bottom status bar indicates the date as 27 January 2022 and the time as 9:53 AM.

Year	Amount of funding (\$B)	Number of deals
2014	4550	581
2015	5850	895
2016	7612	1135
2017	16614	1711
2018	22148	1945
2019	26600	2235

In the second session Mr. Ayush Swami conducted an online hand on experience session for participants. In this session basic concepts, strings, variables, control flow, operators used in python are demonstrated. Mr. Aryan Singh answered the queries of participants. Mr. Praveen

Saraswat act as a moderator and handled Questions & Answer session and delivered the vote of thanks.



## Day-2 Sessions

On the second day first session, Dr. Vishu Gupta explained the Microcontroller, Sensors and the difference between the Analog and Digital. Mr. Aryan Singh introduced the concept of the Arduino, Raspberry Pi, datatypes and operators used for Arduino, discussed the difference between Arduino and Raspberry Pi, relevance and applications of Arduino and Raspberry Pi. Later Dr. Vishu Gupta deliberated on 3D Printing and its applications. Dr. Chandan Kumar handled the queries of participants and delivered the vote of thanks.

The screenshot shows a Cisco Webex Event interface. The main presentation slide is titled "What we are going to do today!" and lists the following topics: Introduction, Arduino, Raspberry Pi, and 3D printing. The slide footer includes the date "3 28 January 2022" and contact information for TensaX Innovation Lab. The top menu bar includes options like File, Edit, Share, View, Audio & Video, Participant, Event, and Help. The right sidebar shows a list of participants (72) and a panelist list (6). The bottom status bar displays system information like temperature, time, and language.

The screenshot shows a Cisco Webex Event interface. The main presentation slide is titled "Arduino" and lists the following features: Microcontroller board with On-Board power supply, USB Port, Atmel microcontroller chip; Standard Board to connect to the system and can be programmed!; No separate PCB design needed; and Open Source Hardware. The slide also displays images of various Arduino boards: UNO, Mega, LilyPad, Arduino BT, Arduino Nano, and Arduino Mini. The slide footer includes the date "9 28 January 2022" and contact information for TensaX Innovation Lab. The top menu bar includes options like File, Edit, Share, View, Audio & Video, Participant, Event, and Help. The right sidebar shows a list of participants (101) and a panelist list (6). The bottom status bar displays system information like temperature, time, and language.




Cisco Webex Events Event Info Hide Menu Bar


File Edit Share View Audio & Video Participant Event Help

Dr. Achin Srivastav Me Ankit Agarwal chandan Kumar Praveen Saraswat Host Vishu Gupta

## Microcontroller



It is a micro-computer. As any computer it has internal CPU, RAM, IOs interface. It is used for control purposes, and for data analysis.



**Famous microcontroller manufacturers** are MicroChip, Atmel, Intel, Analog devices, and more. [\[list\]](#)

5 28 January 2022

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business@tensax.com  
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Unmute Start video Share

Participants (84)

Panelist: 6

- DS Dr. Achin Srivastav Me
- PS Praveen ... Host
- VC Vishu Gupta
- AA Ankit Agarwal
- AS Aryan Singh
- CK chandan Kumar

Attendee: 78 (0 dis... [View all attendees...](#))

Speaker/Headphone (Realtek High Definition A...

13°C Cloudy 9:38 AM INTL 1/28/2022

Cisco Webex Events Event Info Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

Praveen Saraswat Host, me Vishu Gupta Ankit Agarwal chandan Kumar

## Statement and Operators

Statement represents a command, it ends with ;

**Ex:**

```
int x;
x=13;
```

Operators are symbols that used to indicate a specific function:

- Math operators: `[+, -, *, /, %, ^]`
- Logic operators: `[==, !=, &&, ||]`
- Comparison operators: `[==, >, <, !=, <=, >=]`

**Syntax:**

```
; Semicolon, {} curly braces, //single line
comment, /*Multi-line comments*/
```

**Compound Operators:**

- ++ (increment)
- (decrement)
- += (compound addition)
- = (compound subtraction)
- \*= (compound multiplication)
- /= (compound division)

12 28 January 2022

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Unmute Start video Share

Participants (107)

Panelist: 6

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- AA Ankit Agarwal
- AS Aryan Singh
- CK chandan Kumar
- DS Dr. Achin Srivastav

Attendee: 101 (0 dis... [View all attendees...](#))

Participants Chat

09:52 AM 28-01-2022

In the second session Aayush Swami conducted an online hand on experience session for participants. In this session Boolean operators, if, else, elseif, if else if statements, for and while control loops that are used in python are demonstrated. Mr. Aryan Singh answered the queries of participants. Mr. Ankit Agarwal act as a moderator and handled Questions & Answer session and delivered the vote of thanks.

Cisco Webex Events Event Info Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

Praveen Saraswat Aryan Singh Ankit Agarwal **AAYUSH SWAMI** Vishu Gupta chandan Kumar

Layout

Viewing AAYUSH SWAMI's a...

Try It Yourself

```

1 print(1 < 1 and 2 < 2)
2
3 print(1 < 1 and 2 < 2)
4
5 print(1 < 1 and 2 < 2)
6
7 print(2 < 1 and 3 < 3)
8
9 print(2 < 1 and 3 < 3)

```

True  
False  
False  
False

Unmute Start video Share

Participants Chat

12:40 PM 28-01-2022

Cisco Webex Events Event Info Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

Praveen Saraswat Aryan Singh Ankit Agarwal **AAYUSH SWAMI** Vishu Gupta chandan Kumar

Layout

Viewing AAYUSH SWAMI's a...

Boolean Logic

What's the result of this code?

```

if (1 < 1 and 2 < 2):
    print("True")
else:
    print("False")

```

True False  
False  
True

Back Check

Unmute Start video Share

Participants Chat

12:40 PM 28-01-2022

Cisco Webex Events Event Info Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

Praveen Saraswat Aryan Singh Ankit Agarwal **AAYUSH SWAMI** Vishu Gupta chandan Kumar

Layout

Viewing AAYUSH SWAMI's a...

Module 4 Quiz

What's the output of this code?

```

i = 0
x = 0
while i < 4:
    x = x + i
    i = i + 1
    print(x)

```

Back Check

Unmute Start video Share

Participants Chat

01:09 PM 28-01-2022



## Day-3 Sessions

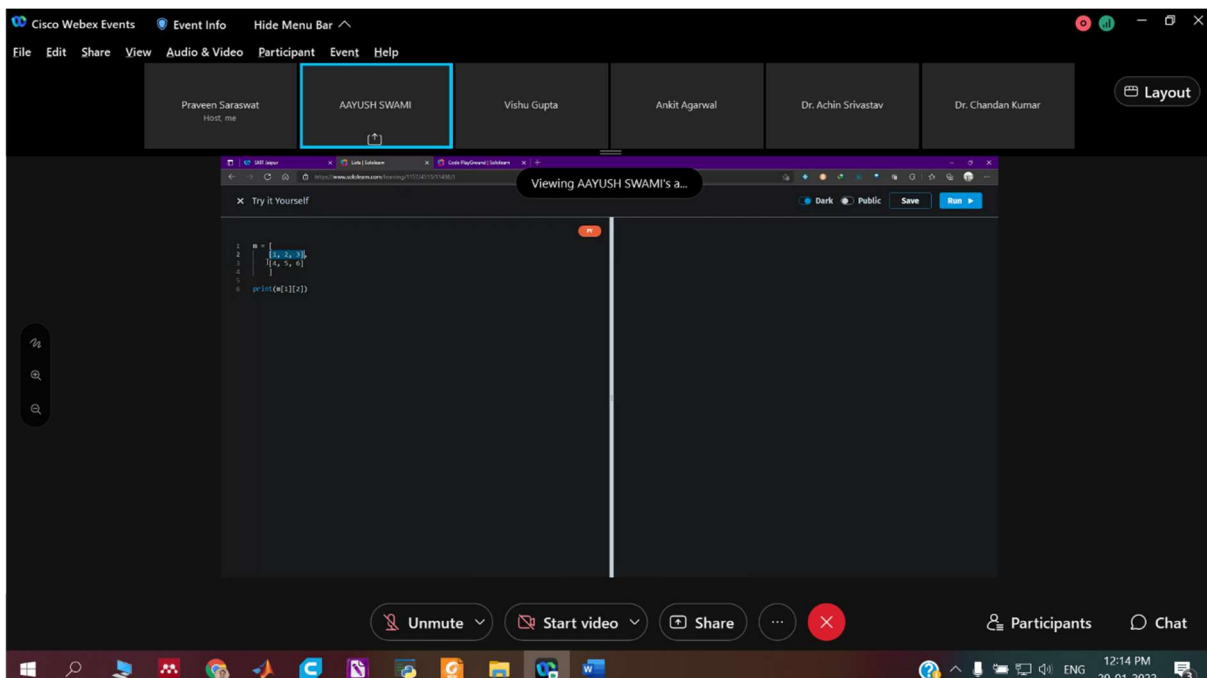
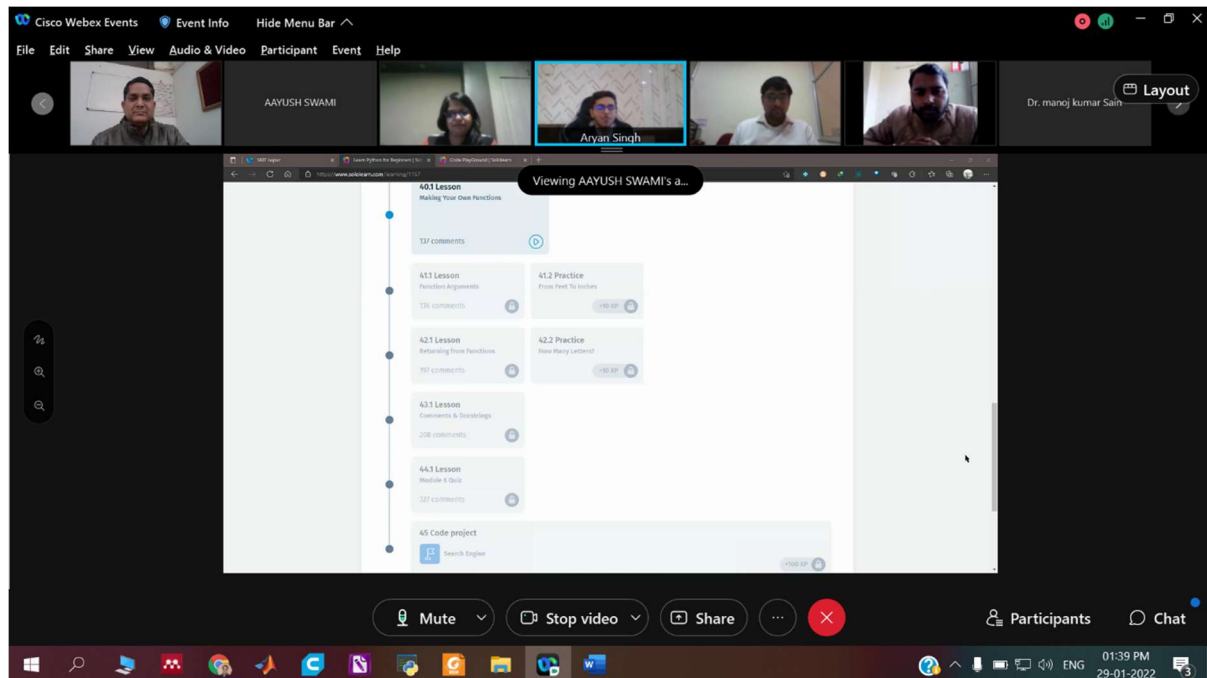
In the third day first session Dr. Achin Srivastav welcomed Mr. Ayush Swami and Dr. Vishu Gupta. In this session Mr. Aryan Singh deliberated on Introduction to Artificial Intelligence, Machine Learning, career opportunities in the area of AI and ML, Natural Language Processing and the Future of AI. Later, Mr. Aryan Singh answered the queries of participants. The session came to end with the vote of thanks of Dr. Achin Srivastav.

The screenshot shows a Cisco Webex Events interface. At the top, there's a menu bar with 'File', 'Edit', 'Share', 'View', 'Audio & Video', 'Participant', 'Event', and 'Help'. Below this is a header area with participant names: 'Praveen Saraswat', 'Dr. Achin Srivastav', 'Vishu Gupta', and 'Dr. Chandan Kumar'. The main content area displays a presentation slide titled 'AI in different sectors' with the subtitle 'Applications in all areas'. The slide features a central graphic of a brain with 'AI' inside, connected by lines to various industry icons: Travel, Banking and Financial Services, Manufacturing, Food Tech, Healthcare, Logistics and Transportation, Entertainment, Real Estate, and Retail and E-commerce. A small video inset shows a participant. At the bottom, there's a control bar with 'Unmute', 'Start video', 'Share', and a red 'X' button. The system tray at the very bottom shows the Windows taskbar with various application icons and the system clock indicating 10:15 AM on 29-01-2022.

The screenshot shows a Cisco Webex Events interface. At the top, there's a menu bar with 'File', 'Edit', 'Share', 'View', 'Audio & Video', 'Participant', 'Event', and 'Help'. Below this is a header area with participant names: 'Praveen Saraswat', 'Aryan Singh', 'Vishu Gupta', 'Dr. Achin Srivastav', and 'Dr. Chandan Kumar'. The main content area displays a presentation slide titled 'How AI could change the job market' with the subtitle 'Estimated net job creation by industry sector, 2017-2037'. The slide features a horizontal bar chart showing job creation percentages for various sectors. A small video inset shows a participant. At the bottom, there's a control bar with 'Unmute', 'Start video', 'Share', and a red 'X' button. The system tray at the very bottom shows the Windows taskbar with various application icons and the system clock indicating 10:07 AM on 29-01-2022.

Industry Sector	Estimated net job creation (%)
Health	25
Scientific and technical	20
Communications	15
Hospitality	10
Education	5
Administrative and support services	5
Other sectors	5
Wholesale and retail	5
Construction	5
Financial and insurance	5
Public administration and defence	5
Transportation and storage	5
Manufacturing	5

In the second session Aayush Swami conducted an online hand on experience session for participants demonstrating Strings, Functions, List and a Project on BMI calculator. Mr. Aryan Singh answered the queries of participants. Mr. Praveen Saraswat handled Questions & Answer session and delivered the vote of thanks.



## Valedictory Session

The three days Workshop came to a close on 29 January 2022, with a Valedictory function. The Workshop Coordinator Mr. Praveen Saraswat gave the welcome address and presented the report on Workshop. Mr. Aryan Singh Chief Technology Officer, TensaX Innovation Lab Jaipur gave a motivational speech on need of learning Python, AI and Machine Learning during the valedictory programme and encouraged the participants to keep learning Python.

The valedictory function was ended with the vote of thanks from Dr. Chandan Kumar Coordinator of the Workshop. He thanked all the experts from TensaX Innovation Lab for deliberating quality lectures on Python along with the participants who took great effort in attending all sessions and making the programme a great success. He also acknowledged the efforts of Mr. Praveen Saraswat, Dr. Manoj Kumar Sain, Dr. Achin Srivastav, Mr. Ankit Agarwal and Mr. Ankit Vijaywargia, Coordinators of Workshop for their efforts on successfully conducting this workshop. He thanked Prof. Dheeraj Joshi, HOD, Mechanical Engineering for providing continuous support and motivation. He extended his thanks to Mr. Jaipal Meel, Director SKIT Jaipur, Prof. (Dr.) S.L. Surana, Director Academics SKIT Jaipur and Prof. (Dr.) R.K. Pachar, Principal SKIT Jaipur for providing all the facilities, assistance, support and encouragement for conducting this workshop.



## Media Coverage

### वर्कशॉप में जाने पायथन प्रोग्रामिंग के उपयोग



कार्यशाला और इसकी सामग्री के बारे में संक्षिप्त परिचय पर प्रकाश डाला। देशभर में इस वर्कशॉप के लिए 600 से ज्यादा स्टूडेंट्स शामिल हुए। वर्कशॉप के अतिथि

जयपुर (खबरों की दुनिया)। जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी में गुरुवार को मैकेनिकल इंजीनियरिंग विभाग की ओर से ई-यंत्र लैब एसकेआईटी और आईईटीई छात्र मंच के संयुक्त तत्वावधान में 'पायथन प्रोग्रामिंग का परिचय' विषय पर तीन दिवसीय वर्कशॉप की शुरुआत की गई। वर्कशॉप समन्वयक डॉ. अचिन श्रीवास्तव ने

आर्यन सिंह ने छात्रों के करियर में पायथन प्रोग्रामिंग के महत्व पर चर्चा की। उन्होंने ब्लॉक चेन, आर्टिफिशियल इंटेलिजेंस और डेटा एनालिटिक्स क्षेत्रों में पायथन प्रोग्रामिंग के अनुप्रयोग भाग के बारे में भी बताया। अंत में एसोसिएट प्रोफेसर प्रवीण सारस्वत और प्रो धीरज जोशी ने अतिथि और प्रतिभागियों को धन्यवाद दिया। सत्र का संचालन नमिता सोनी और अंकित अग्रवाल ने किया।

### वर्कशॉप में जाने पायथन प्रोग्रामिंग के उपयोग



महानगर टाइम्स

**जयपुर।** जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी में गुरुवार को मैकेनिकल इंजीनियरिंग विभाग की ओर से ई-यंत्र लैब एसकेआईटी और आईईटीई छात्र मंच के संयुक्त तत्वावधान में 'पायथन प्रोग्रामिंग का परिचय' विषय पर तीन दिवसीय वर्कशॉप की शुरुआत की गई। वर्कशॉप समन्वयक डॉ. अचिन श्रीवास्तव ने कार्यशाला और इसकी सामग्री के बारे में संक्षिप्त परिचय पर प्रकाश डाला। देशभर में इस वर्कशॉप के लिए 600 से ज्यादा स्टूडेंट्स शामिल हुए। वर्कशॉप के अतिथि आर्यन सिंह ने छात्रों के करियर में पायथन प्रोग्रामिंग के महत्व पर चर्चा की। उन्होंने ब्लॉक चेन, आर्टिफिशियल इंटेलिजेंस और डेटा एनालिटिक्स क्षेत्रों में पायथन प्रोग्रामिंग के अनुप्रयोग भाग के बारे में भी बताया। अंत में एसोसिएट प्रोफेसर प्रवीण सारस्वत और प्रो धीरज जोशी ने अतिथि और प्रतिभागियों को धन्यवाद दिया। सत्र का संचालन नमिता सोनी और अंकित अग्रवाल ने किया।

### एसकेआईटी में ऑनलाइन कार्यशाला शुरू



**जयपुर (कांस.)।** जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में गुरुवार को मैकेनिकल इंजीनियरिंग विभाग द्वारा ई-यंत्र लैब एसकेआईटी और आईईटीई छात्र मंच के सहयोग से आयोजित 'पायथन प्रोग्रामिंग का

परिचय' पर तीन दिवसीय ऑनलाइन छात्र कार्यशाला का उद्घाटन समारोह आयोजित किया गया। प्रो. धीरज जोशी, प्रमुख, मैकेनिकल इंजीनियरिंग ने सभी अतिथियों, वक्ताओं और प्रतिभागियों का स्वागत करते हुए कार्यशाला को संबोधित किया। कार्यशाला समन्वयक डॉ. अचिन श्रीवास्तव ने कार्यशाला और इसकी सामग्री के बारे में संक्षिप्त परिचय पर प्रकाश डाला। देशभर में इस वर्कशॉप के लिए 600 से ज्यादा स्टूडेंट्स ने रजिस्ट्रेशन कराया है। आर्यन सिंह, सीटीओ, टेन्साएक्स इनोवेशन लैब, जयपुर कार्यक्रम के अतिथि थे। उन्होंने छात्रों के करियर में पायथन प्रोग्रामिंग के महत्व पर चर्चा की। उन्होंने ब्लॉक चेन, आर्टिफिशियल इंटेलिजेंस और डेटा एनालिटिक्स क्षेत्रों में पायथन प्रोग्रामिंग के अनुप्रयोग भाग के बारे में भी बताया। अंत में प्रवीण सारस्वत, एसोसिएट प्रोफेसर ने अतिथि और प्रतिभागियों को धन्यवाद दिया। संचालन सुश्री नमिता सोनी और अंकित अग्रवाल ने किया।

**सीमा सन्देश**

Fri, 28 January 2022  
<https://www.readwhere.>





## एसकेआईटी में पायथन प्रोग्रामिंग का परिचय पर तीन दिवसीय ऑनलाइन छात्र कार्यशाला का उद्घाटन

P3 Police Public Politics

जयपुर ! जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में गुरुवार दिनांक 27 जनवरी 2022 को मैकेनिकल इंजीनियरिंग विभाग द्वारा ई-यंत्र लैब एसकेआईटी और आईआईटीई छात्र मंच के सहयोग से आयोजित 'पायथन प्रोग्रामिंग का परिचय' पर तीन दिवसीय ऑनलाइन छात्र कार्यशाला का उद्घाटन समारोह आयोजित किया गया।



प्रो. धीरज जोशी, प्रमुख, मैकेनिकल इंजीनियरिंग ने सभी अतिथियों, वक्ताओं और प्रतिभागियों का स्वागत करते हुए कार्यशाला को संबोधित किया। कार्यशाला समन्वयक डॉ. अचिन श्रीवास्तव ने कार्यशाला और इसकी सामग्री के बारे में संक्षिप्त परिचय पर प्रकाश डाला। देशभर में इस वर्कशॉप के लिए 600 से ज्यादा स्टूडेंट्स ने रजिस्ट्रेशन कराया है। श्री आर्यन सिंह, सीटीओ, टेन्साएक्स इनोवेशन लैब, जयपुर कार्यक्रम के अतिथि थे। उन्होंने छात्रों के करियर में पायथन प्रोग्रामिंग के महत्व पर चर्चा की। उन्होंने ब्लॉक चेन, आर्टिफिशियल इंटेलिजेंस और डेटा एनालिटिक्स क्षेत्रों में पायथन प्रोग्रामिंग के अनुप्रयोग भाग के बारे में भी बताया। अंत में, श्री प्रवीण सारस्वत, एसोसिएट प्रोफेसर ने अतिथि और प्रतिभागियों को धन्यवाद दिया। सत्र का संचालन सुश्री नमिता सोनी और श्री अंकित अग्रवाल ने किया।

## एसकेआईटी में पायथन प्रोग्रामिंग पर तीन दिवसीय ऑनलाइन छात्र कार्यशाला का समापन

P3 Police Public Politics

जयपुर ! जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में गुरुवार दिनांक 29 जनवरी 2022 को मैकेनिकल इंजीनियरिंग विभाग द्वारा ई-यंत्र लैब एसकेआईटी और आईआईटीई छात्र मंच के सहयोग से आयोजित 'पायथन प्रोग्रामिंग' पर तीन दिवसीय ऑनलाइन छात्र कार्यशाला का समापन हुआ। प्रो. धीरज जोशी, विभागाध्यक्ष, मैकेनिकल इंजीनियरिंग ने सभी अतिथियों, वक्ताओं और प्रतिभागियों का स्वागत करते हुए समापन समारोह को संबोधित किया।

कार्यशाला समन्वयक डॉ. मनोज कुमार सैन के अनुसार इस कार्यशाला में

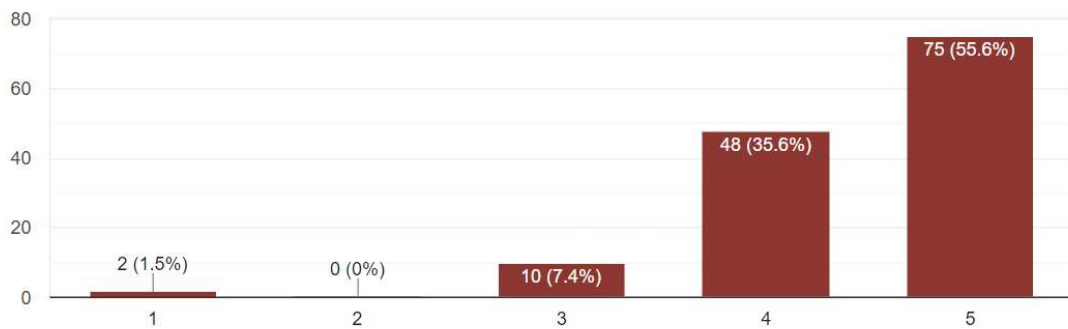


देशभर से 250 से ज्यादा स्टूडेंट्स ने सक्रिय रूप से भाग लिया। इस कार्यशाला में ब्लॉक चेन, आर्टिफिशियल इंटेलिजेंस और डेटा एनालिटिक्स क्षेत्रों में पायथन प्रोग्रामिंग के अनुप्रयोगों के बारे में छात्रों को प्रशिक्षण दिया गया। कार्यशाला में पायथन प्रोग्रामिंग के क्षेत्र में करियर विकल्पों के बारे में भी छात्रों को अवगत कराया गया। अंत में, डॉ. चंदन कुमार ने अतिथि और प्रतिभागियों को धन्यवाद दिया। सत्र का संचालन श्री प्रवीण सारस्वत ने किया।

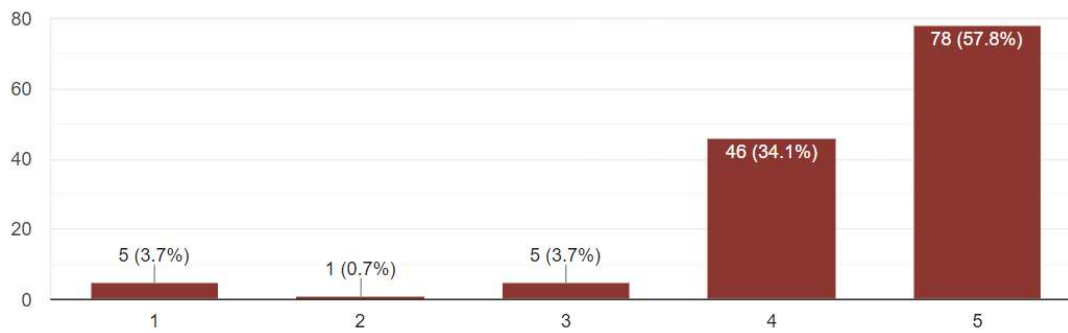
## Feedback of Workshop

### 1. Rating of Sessions (1 to 5):

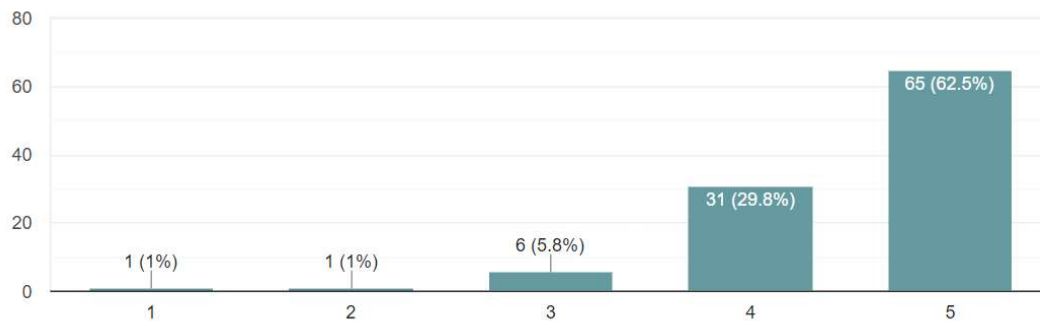
#### Session -1



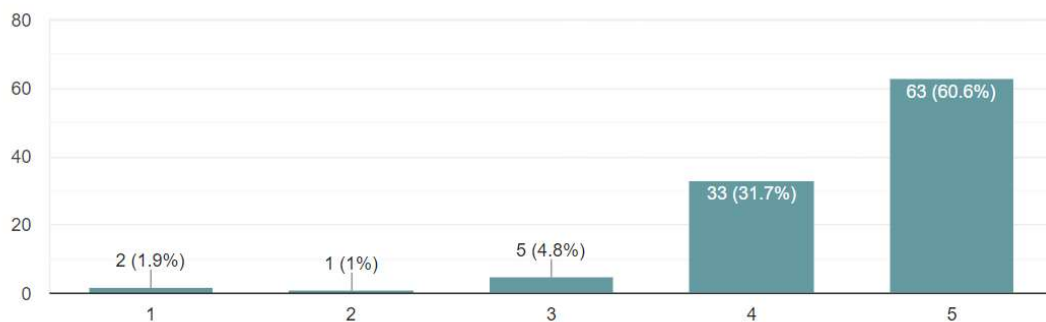
#### Session-2



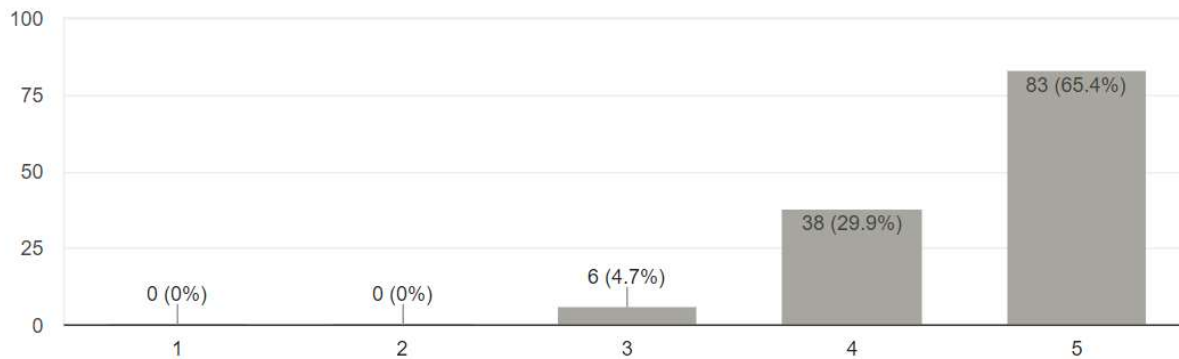
#### Session-3



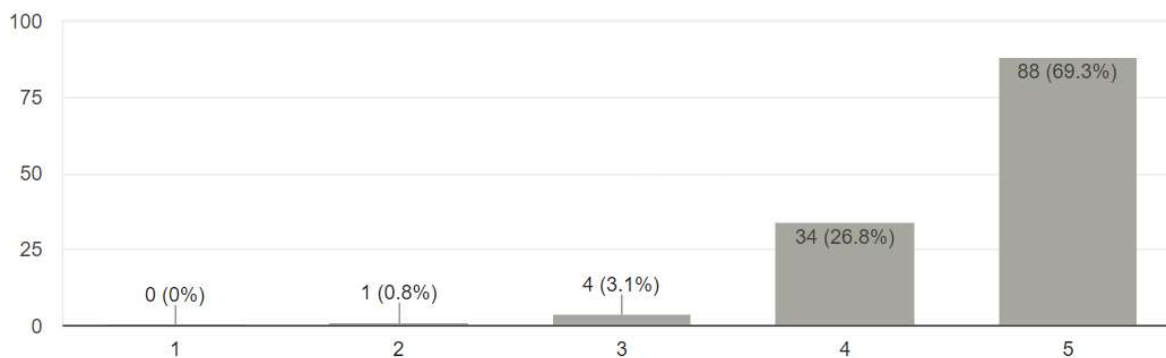
#### Session-4



## Session-5



## Session-6



## 2. General feedback on the sessions content:

- Good and interactive way to teach python
- It was an informative session for the one who knows very least about programming languages
- It was nice and informative
- Good content. Easy to understand for beginners.
- Very nice session as well as introduction was very nice as expected
- Basics was well thought by the respective faculty member and very under stable
- Good workshop to known about python
- The session went decently and the content was very informative.
- The content was good and the way they are using solo learner platform is commendable.
- Well explained and easily understandable
- All the basics were clearly understood
- Live coding or basics of python is very helpful
- This course was short but very informative and helpful.



- Really hope that this kind of knowledgeable workshop will going to conduct again in future. Very helpful, very knowledgeable, thanks for giving us all this information in such a great manner.
- It allows beginner who has zero knowledge about programming to understand the basic terms used in Python. Variety of practical examples. Gives broad overview. Great course! Would definitely love to join other courses offered by your team
- Amazing hands-on learning experience!
- Excellent Session Learnt A lot
- The session was pretty decent, inspite of the webinar being held online it led to so much positive energy in us.
- Great session Get to learn new things .this session will surely helps us in future... thanks for organizing this exciting session..
- The session was great.Learned many new concepts in python and made a firm grip over basics.Hoping to attend more such sessions in order to learn each and every concept of python and further AI.
- Session contains great content for any python beginner to have a good grab on python basics
- Very helpful session. Python was explained in very easiest way. Really enjoyed the session a lot.
- Wonderfully practical course both personally and professionally. I will take away lots of things that I can quickly and easily apply." "I can't wait to get back to work and try some of these things out
- Quite interesting introduction to Python, focusing on the most important components of the language. Looking forward to other courses using the same format. Thank you Dept Mechanical Engineering. This course was amazing as well as was an interesting course.
- It beyond what I have imagined the way of delivering the content and explaining the program solving is perfect
- The session had a lot to learn from. Basic codes required for beginners were explained.
- Content is good
- Content contains practice problems which enhanced my skills... So overall it was quite well.
- We learnt basic in python Aryan sir and aayush sir explain very well
- Excellent session
- The content of the session was very apt and the session was quite interactive.
- Session is good we came to learn many things about basic python. Looking forward to know in a bit advance level
- Everyone can understand in a better way. Understood well

### **3. Any Suggestion:**

- Improve audio
- It can be gone little slow n the time is very much consuming in this.

- More advanced coding projects related talks
- There is lack of interaction and less time.
- Slow down the speed of session as we need to apply the same side by side
- Could be more interactive
- Suggestion to add more examples and frame works of Live Projects. Thank you.
- Giving more examples related to the problem
- More of such events should be conducted
- Some demo projects would help us to know our working type
- During the practice they must give us some time to solve the practice session
- The session was understanding but there is a issue with voice
- Maybe more Question and Answer can be asked or polls be created
- Please organise these sessions in future
- Brake in middle of lectures so no one can get bored