



**UG PROGRAM OFFERED BY  
ELECTRICAL ENGINEERING  
DEPARTMENT IS  
ACCREDITED BY NBA**



**Thakurpukur, Samali,  
B.H Road, Kolkata - 700104,  
West Bengal, India.**



**(033)24980376**

## OVERVIEW OF THE STTP

The STTP provides participants with the most recent developments in control systems and automation technologies. They will acquire knowledge about innovative strategies that are currently influencing the field through interactive sessions, and expert lectures. The participants engage in an exploration of subjects like Embedded Systems, Robotics, Industrial Automation and the integration of the Internet of Things (IoT), thereby cultivating a more profound comprehension of current difficulties and potential remedies. This STTP also enables the participants to enhance their teaching approaches, research efforts, and academic relationships, so improving academic performance and making significant contributions to the improvement of control and automation.

## ABOUT US

### ABOUT THE INSTITUTE

Established in 2006, the Dream Institute of Technology, Kolkata, is a premier engineering college affiliated with MAKAUT and approved by AICTE. It offers accredited courses and committed towards holistic development of a student. It nurtures skilled professionals through dedicated faculty, modern facilities, and a focus on ethics. With advanced labs and resources, DIT ensures a vibrant learning experience, reflecting its commitment to excellence.

### ABOUT THE DEPARTMENT

Since 2006, we've empowered aspiring electrical engineers through innovation and academic excellence. Our experienced faculty ensures a practical approach, preparing graduates for success. With cutting-edge labs and NBA accreditation, we shape future-ready professionals.

**ONE WEEK ONLINE  
SHORT TERM TRAINING  
PROGRAM (STTP)**

**EMERGING TRENDS  
ON CONTROL AND  
AUTOMATION AT  
PRESENT SCENARIO**

**9TH -15TH MAY 2024**

**ORGANISED BY:  
DEPARTMENT OF ELECTRICAL ENGG.  
DREAM INSTITUTE OF TECHNOLOGY**

**website: [www.dreaminstituteonline.com](http://www.dreaminstituteonline.com)**



### Patron

**Ms. Susmita Sarkar**

Chairperson, DIT

**Dr. Dipankar Sarkar**

Principal, DIT

### Organizing Committee

**Dr. Bivas Roy (Convenor)**

Associate Professor, HOD

**Mr. Pratik Sarkar (Co-convenor)**

Assistant Professor

**Mr. Arvind Kumar**

Assistant Professor, EE

**Mr. Arindam Mondal**

Assistant Professor, EE

**Mr. Sayak Sarkar**

Assistant Professor, EE

**Mrs. Asmita Poddar**

Assistant Professor, EE

**Mr. Aritra Dey**

Assistant Professor, EE

**Mr. Sushovan Roy**

Assistant Professor, EE

**Mr. Surojit Sarkar**

Assistant Professor, EE

**Mrs. Payel Bhattacharya**

Assistant Professor, EE

**Dr. Abhishek Bagchi**

Assistant Professor, EE

**Sheikh Jellar Rehman**

Assistant Professor, EE

**Mr. Sunny Majumder**

Assistant Professor, EE

**Mr. Suvendu Nandi**

Assistant Professor, EE

#### POINT OF CONTACT:

Dr. Bivas Roy  99433255661

Mr. Pratik Sarkar  9933707122

## KEY RESOURCE PERSONS



**DR. JITENDRANATH BERA**  
Professor,  
Electrical Engineering  
Department of Applied Physics,  
University of Calcutta



**DR. SUSANTA RAY**  
Associate Professor,  
Electrical Engineering Dept.  
Jadavpur University



**DR. MANAS KUMAR BERA**  
Associate Professor,  
Department of Electrical Engg.  
NIT Rourkella



**DR. MUNMUN KHANRA**  
Associate Professor,  
Department of EIE.  
NIT Silchar



**DR. BIVAS ROY**  
Associate Professor & HOD  
Department of Electrical Engg.  
Dream Institute of Technology



**DR. ABHISHEK BAGCHI**  
Assistant Professor  
Department of Electrical Engg.  
Dream Institute of Technology

Who Can Participate?: 

- **Faculties from AICTE approved institute.**
- **Industry Persons.**
- **PG students.**
- **UG Students (Only internal)**



Free Registration  
Limited seat-first come first serve

Last Date of Registration: 07.05.24

**Online Registration Link:**

<https://forms.gle/MAhZvvxkpErZFaPe9>



### Tentative Schedule:

Day 1 (09.05.24): Inauguration, Session-1

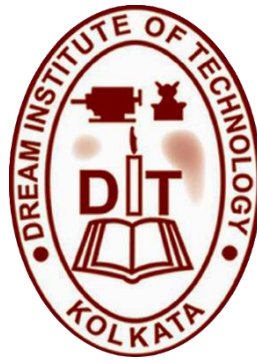
Day 2 (10.05.24): Session- 2

Day 3 (11.05.24) : Session- 3

Day 4 (14.05.24) : Session- 4

Day 5 (15.05.24) : Session- 5 & 6 & Valediction

**e-Certificate will be given to all the participants with attendance 60% and above**



## STTP Report

Five Days Online Mode Short Term Training program (STTP) on  
“Emerging Trends on Control and Automation at Present Scenario”

Organized by

**Department of Electrical Engineering**

(UG Program Accredited by NBA)


**Dream Institute of Technology, Kolkata West Bengal, India**

During

May 9<sup>th</sup> to May 15<sup>th</sup> 2024



# **Five Days Online Mode STTP Emerging Trends On Control Automation at Present Scenario**

 From: 9th May - 15th May 2024



**Department of  
Electrical Engineering**

(UG Program Accredited by NBA)

**Dream Institute of Technology**

Thakurpukur, B.H. Road, Samali, Kolkata-700104, West Bengal

## Detailed Program Report

Title of STTP: “Emerging Trends on Control and Automation at Present Scenario”

Registration Link: <https://forms.gle/MAhZvvxkpErZFaPe9>

Registration Date: From 30<sup>th</sup> April 2024 to 7<sup>th</sup> May 2024 upto 11.59 PM

Online Platform: Google Meet Business plan (Meeting Link: <https://meet.google.com/xya-cpeb-ynx>)

### Resource Person List:

Sl. No.	Name	Affiliation	Designation	Topic of Presentation
1	Dr. Susanta Ray	Jadavpur University, Kolkata, West Bengal	Associate professor, Dept. of Electrical Engineering	“An Overview of Linear Control Systems and Its Design”
2	Dr. Manas Kumar Bera	National Institute of Technology, Rourkela	Associate professor, Dept. of Electrical Engineering	“Introduction to Two-Wheeled Mobile Robot”
3	Prof. (Dr.) Jitendra Nath Bera	University of Calcutta	Professor Dept. of Applied Physics	“Distribution Automation and Advanced Metering Infrastructure in Smart Distribution Grid”
4	Dr. Bivas Roy	Dream Institute of Technology, Kolkata	Associate professor, Dept. of Electrical Engineering	“Planning and Design Methodology for Industrial Automation System”
5	Dr. Munmun Khanra	National Institute of Technology, Silchar	Associate professor, Dept. of Electrical Engineering	“Scopes of Control in Energy System”
6	Dr. Abhishek Bagchi	Dream Institute of Technology, Kolkata	Assistant Professor, Dept. of Electrical Engineering	“Design and Operation of Smart Material-Based Microactuator Devices”

Total Registration Received: **476 Nos.**

Internal Participants (Dream Institute of Technology Faculty, Students & others): **19 Nos.**

External Participants (State of West Bengal): **49 Nos.**

State of others: **408 Nos. (Like Maharashtra, Uttar Pradesh, Pune, Ranchi, Gujrat, Chennai etc.**

## Day-1 (09.05.2024) of STTP

**Resource Person: Dr. Susanta Ray**

**Associate professor, Dept. of Electrical Engineering, Jadavpur University,  
Kolkata, West Bengal**

**Title of Talk: “An Overview of Linear Control Systems and Its Design”**

Total Participants Attended (Google Meet tracker): **343 Nos.** (Link:

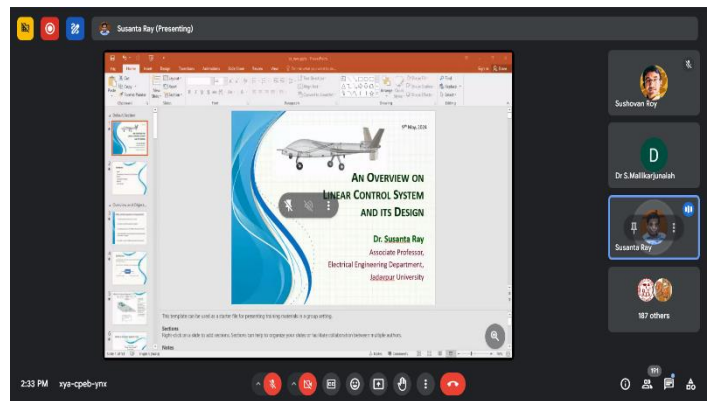
[https://docs.google.com/spreadsheets/d/1R5xsB0\\_doJ1zWmcpA4MwavUgZ1TPra4JG8SSxPU7xG4/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1R5xsB0_doJ1zWmcpA4MwavUgZ1TPra4JG8SSxPU7xG4/edit?usp=sharing) )

Total No. of Participants Fill the attendance Form: **214 Nos.** (Link:

[https://docs.google.com/spreadsheets/d/1EfKiz2YAgrji44Daog7E2vk1LQ\\_CodLJ9wnW3MOjb3A/edit?resourcekey#gid=812931079](https://docs.google.com/spreadsheets/d/1EfKiz2YAgrji44Daog7E2vk1LQ_CodLJ9wnW3MOjb3A/edit?resourcekey#gid=812931079) )

Link for Recorded Video: **Day-1 TS-1**

[https://drive.google.com/file/d/1CLrWrMBFcYpwEr0D43PRD-PErbxH\\_F2a/view?usp=sharing](https://drive.google.com/file/d/1CLrWrMBFcYpwEr0D43PRD-PErbxH_F2a/view?usp=sharing)



## Day-2 (10.05.2024) of STTP

**Resource Person: Dr. Manas Kumar Bera**

**Associate professor, Dept. of Electrical Engineering, National Institute of Technology, Rourkela**

**Title of Talk: “Introduction to Two-Wheeled Mobile Robot”**

Total Participants Attended (Google Meet tracker): **287 Nos.** (Link:

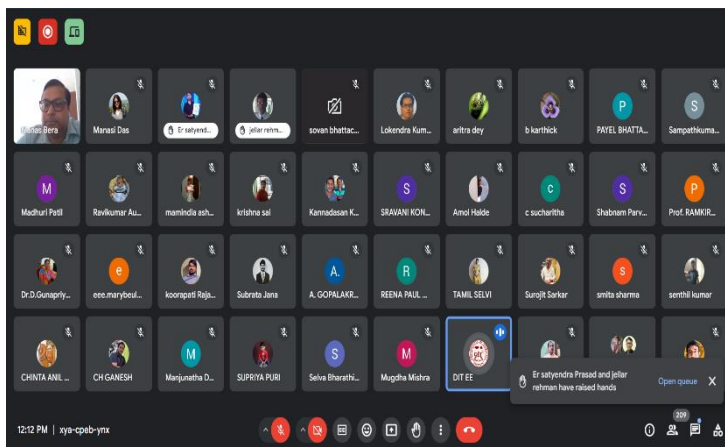
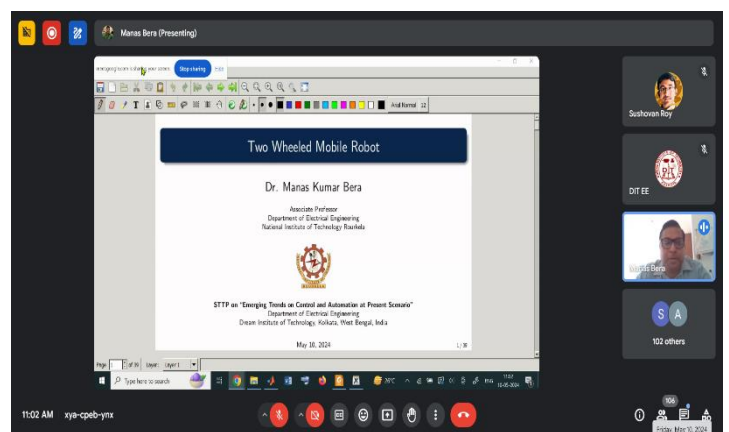
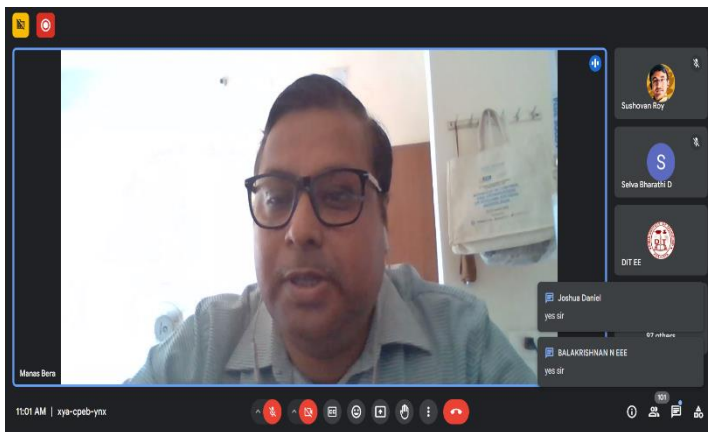
<https://docs.google.com/spreadsheets/d/1MvUeF0zNC60T-TmygbujBbPg76y8LWFebz7WbSj7D2Y/edit#gid=904681647>

Total No. of Participants Fill the attendance Form: **191 Nos.** (Link:

[https://docs.google.com/spreadsheets/d/1zXFtEyK0\\_aqbTyzsXaFp5C1t-2s\\_kMeqPU7M\\_apSsmY/edit?resourcekey#gid=595428722](https://docs.google.com/spreadsheets/d/1zXFtEyK0_aqbTyzsXaFp5C1t-2s_kMeqPU7M_apSsmY/edit?resourcekey#gid=595428722)

Link for Recorded Video: **Day-2 TS-2**

<https://drive.google.com/file/d/1q8A3eyJHyxFwBvIEtn1aolFmLI2m6i6W/view?usp=sharing>



## Day-3 (11.05.2024) of STTP

**Resource Person: Prof. (Dr.) Jitendra Nath Bera**

**Professor, Dept. of Applied Physics, University of Calcutta**

**Title of Talk: *“Distribution Automation and Advanced Metering Infrastructure in Smart Distribution Grid”***

Total Participants Attended (Google Meet tracker): **286 Nos. (Link:**

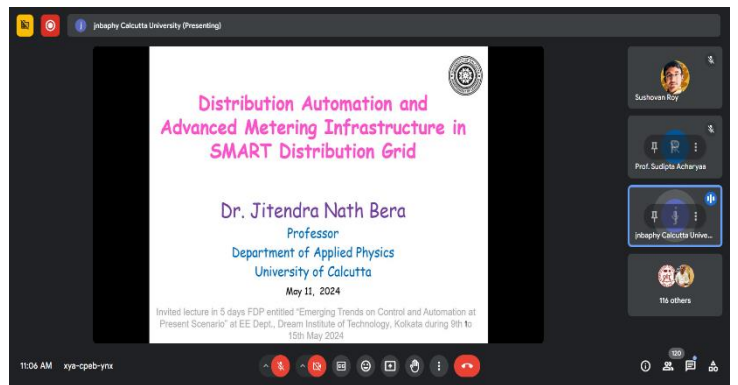
**[https://docs.google.com/spreadsheets/d/1vYpWiyI3CkLRbx0U3T\\_kJPloEX-uPS2-fnrMTYoU2d8/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1vYpWiyI3CkLRbx0U3T_kJPloEX-uPS2-fnrMTYoU2d8/edit?usp=sharing) )**

Total No. of Participants Fill the attendance Form: **235 Nos. (Link:**

**[https://docs.google.com/spreadsheets/d/1fBOX3NvxEyYI18g6FyOx\\_FSmqtutNmuCM2EXnigwc0E/edit?resourcekey#gid=369445374](https://docs.google.com/spreadsheets/d/1fBOX3NvxEyYI18g6FyOx_FSmqtutNmuCM2EXnigwc0E/edit?resourcekey#gid=369445374) )**

Link for Recorded Video: **Day-3 TS-3**

**[https://drive.google.com/file/d/17rV2DzipToHwPjcEG48wj7b\\_Q4\\_HwTrn/view?usp=sharing](https://drive.google.com/file/d/17rV2DzipToHwPjcEG48wj7b_Q4_HwTrn/view?usp=sharing)**



## Day-4 (14.05.2024) of STTP

**Resource Person: Dr. Bivas Roy**

**Associate professor, Dept. of Electrical Engineering, Dream Institute of Technology, Kolkata**

**Title of Talk: “*Planning and Design Methodology for Industrial Automation System*”**

Total Participants Attended (Google Meet tracker): **278 Nos.** (Link:

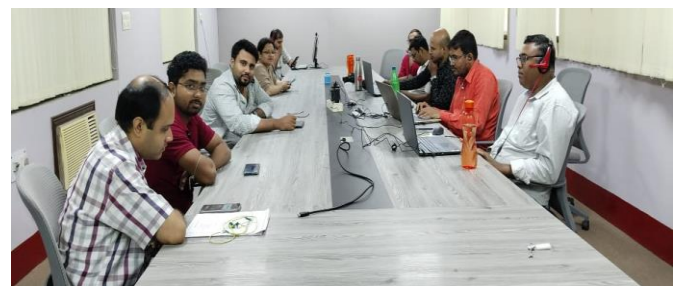
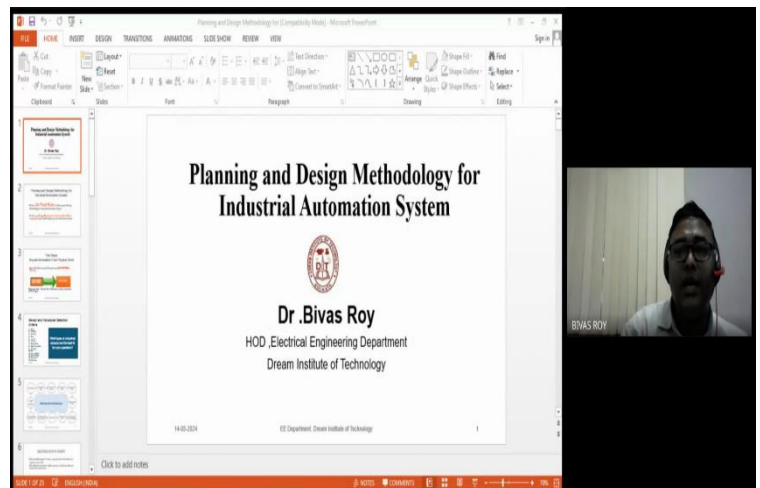
[https://docs.google.com/spreadsheets/d/11X4ywS2YoQUtit5m0IH\\_beyiFUqoGY7Ok8Q\\_eLYRc74I/edit?usp=sharing](https://docs.google.com/spreadsheets/d/11X4ywS2YoQUtit5m0IH_beyiFUqoGY7Ok8Q_eLYRc74I/edit?usp=sharing) )

Total No. of Participants Fill the attendance Form: **203 Nos.** (Link:

[https://docs.google.com/spreadsheets/d/1beAGJdFPwvKM7UMeEsgf77m\\_xdivID2eyGPmWANwxc/edit?resourcekey#gid=208242454](https://docs.google.com/spreadsheets/d/1beAGJdFPwvKM7UMeEsgf77m_xdivID2eyGPmWANwxc/edit?resourcekey#gid=208242454) )

Link for Recorded Video: **Day-4 TS-4**

[https://drive.google.com/file/d/1LVINzG9UkOdfiCM3B7G\\_8z1s8jiU4DN-/view?usp=sharing](https://drive.google.com/file/d/1LVINzG9UkOdfiCM3B7G_8z1s8jiU4DN-/view?usp=sharing)





## Day-5 (15.05.2024) of STTP (Session-1)

**Resource Person: Dr. Munmun Khanra**

**Associate professor, Dept. of Electrical Engineering, National Institute of Technology, Silchar**

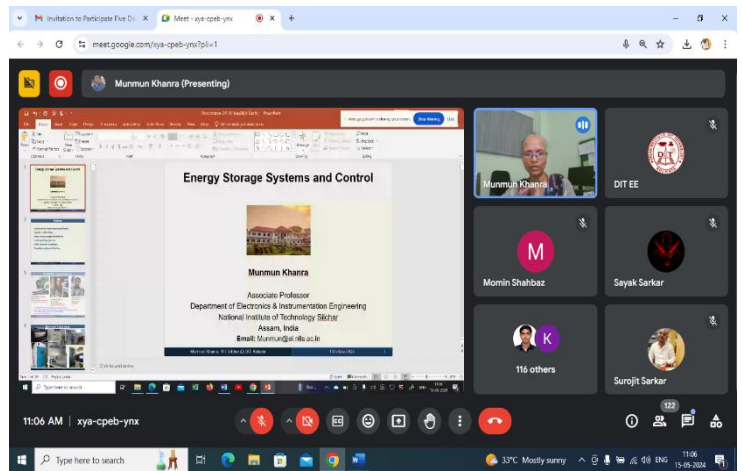
**Title of Talk: “*Scopes of Control in Energy System*”**

Total Participants Attended (Google Meet tracker): **281 Nos.** (Link: <https://docs.google.com/spreadsheets/d/1r2iaIy7vOGhq94fevFQ6DQh9AP--bmujcXp0A345xD0/edit#gid=122832515>)

Total No. of Participants Fill the attendance Form: **259 Nos.** (Link: <https://docs.google.com/spreadsheets/d/1yarhbJFhEAEkjjjZkDxXoevoimgtn5-oJNM2LBc3PGM/edit?resourcekey#gid=805159193>)

Link for Recorded Video: **Day-5 TS-5**

[https://drive.google.com/file/d/1nhTZpPzDc1AS1HRWIPJjkFenuz2q85Mw/view?usp=s\\_haring](https://drive.google.com/file/d/1nhTZpPzDc1AS1HRWIPJjkFenuz2q85Mw/view?usp=s_haring)



## Day-5 (10.05.2024) of STTP (Session-2)

**Resource Person: Dr. Abhishek Bagchi**

**Assistant professor, Dept. of Electrical Engineering, Dream Institute of Technology, Kolkata**

**Title of Talk: “*Design and Operation of Smart Material-Based Microactuator Devices*”**

Total Participants Attended (Google Meet tracker): **305 Nos.** (Link:

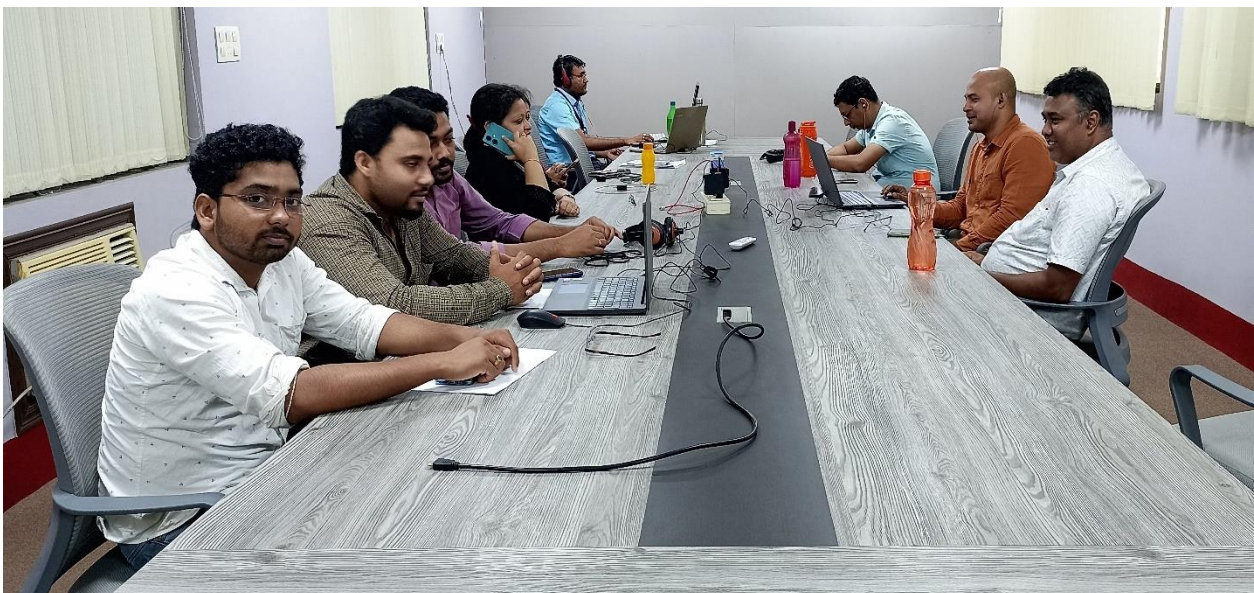
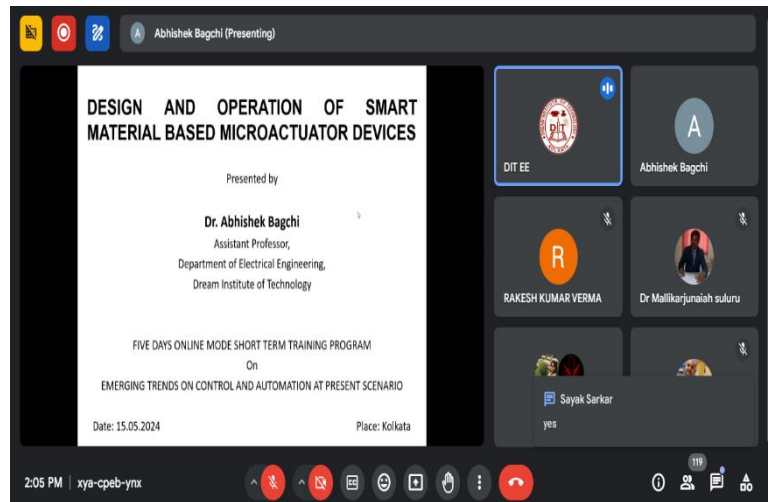
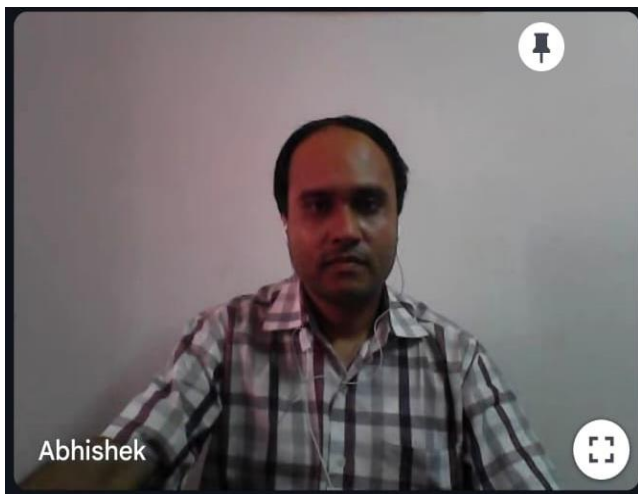
<https://docs.google.com/spreadsheets/d/1GYs4iuLkNdCmPctNLIKA80VLop7g4kMUefkibuKUrGg/edit#gid=518058061>)

Total No. of Participants Fill the attendance Form: **240 Nos.** (Link:

<https://docs.google.com/spreadsheets/d/116NfKD4GtNGfF5sKgevMTMOsSIuoI-xdH4r27HTd4j0/edit?resourcekey#gid=914141663>

Link for Recorded Video: **Day-5 TS-6**

<https://drive.google.com/file/d/1CAW7nX76Gw910zVHdKkPFJjPsDaRlu21/view?usp=sharing>



## Valedictory Sessions Including Final Assessment Test of STTP

(15.05.2024)

Overall form Fill-up (Participants): **255** Nos. (Link: [https://docs.google.com/spreadsheets/d/1gF\\_7EBXeGJ6KB6zvBGidvww0KxggIIP-44yG\\_fk9Iw0/edit?resourcekey#gid=1657521073](https://docs.google.com/spreadsheets/d/1gF_7EBXeGJ6KB6zvBGidvww0KxggIIP-44yG_fk9Iw0/edit?resourcekey#gid=1657521073))

Final Assessment Test (Participants): **271** Nos. (Link: <https://docs.google.com/spreadsheets/d/12wn7n19jef90mTuVaPFgXLvH3PhgWbwGII7vwYbvIs0/edit?resourcekey#gid=1054467523>)



3:38 PM | xya-cpeb-ynx

201

Raise hand (ctrl + alt + h)

3:38 PM | xya-cpeb-ynx

3:36 PM | xya-cpeb-ynx

200

3:36 PM | xya-cpeb-ynx

3:38 PM | xya-cpeb-ynx

201

3:38 PM | xya-cpeb-ynx

## Final Participants List & Released E-Certificate:

### Phase-1:

[https://drive.google.com/file/d/1nz-rKTV\\_OdlWAQ\\_ZFMt3C6RYXiK1AmJI/view?usp=sharing](https://drive.google.com/file/d/1nz-rKTV_OdlWAQ_ZFMt3C6RYXiK1AmJI/view?usp=sharing)

### Phase-2:

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### Certificate Link (1<sup>st</sup> Phase):

<https://drive.google.com/drive/folders/1rvBe5JnWZfWWWxs-zbbPgrsJqxFIMGeM?usp=sharing>

### Certificate Link (2<sup>nd</sup> Phase):

<https://drive.google.com/drive/folders/1ZSFTaXCnoyzSbLWzHLf7nZN2S6a6k4vb?usp=sharing>

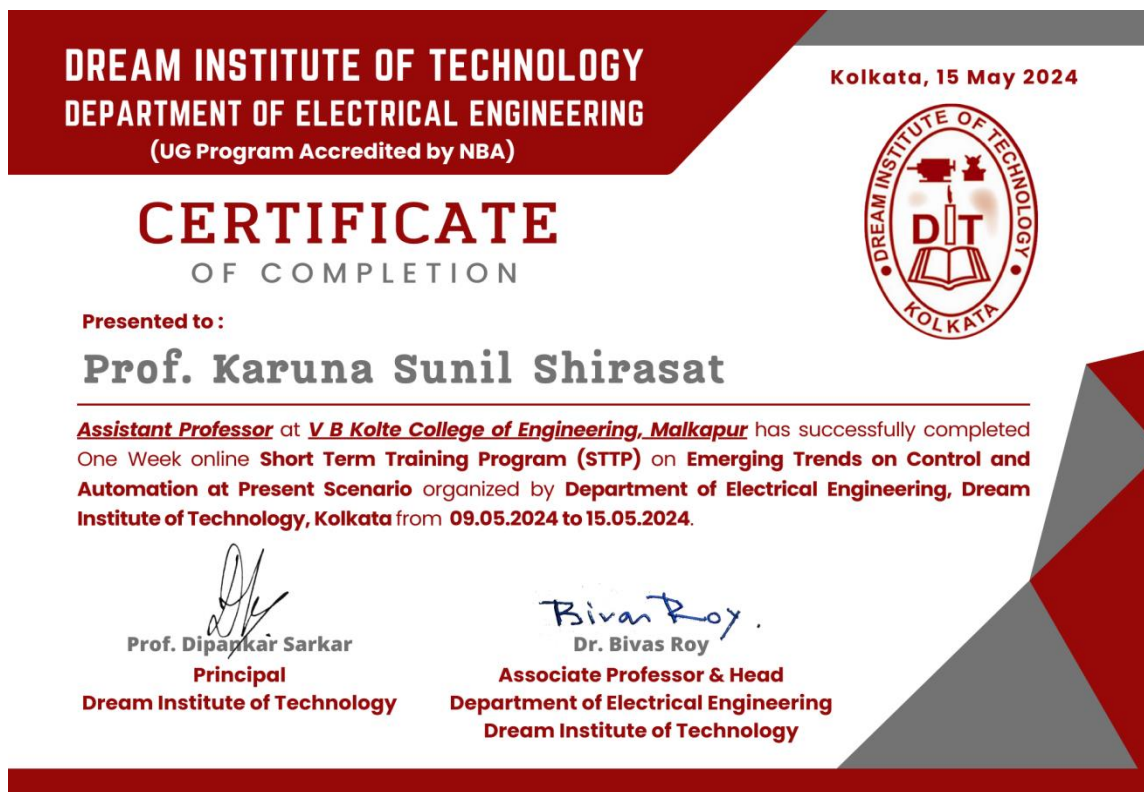


Fig.1: Sample Certificate of Participation



*Dr. Bivas Roy*  
**Dr. Bivas Roy**  
[Convener-STTP]  
DIT, Kolkata, West Bengal  
India