



Symposium and Hands-On
on
Home Automation Summer Workshop Program

By
IoT Applications Club
Jadavpur University,
Jadavpur, Kolkata-700032

Date: July 03, 2025 (Thursday) Time: 10:30 AM - 5:30 PM
Venue: T-3-7, Dept. of ETCE, JU

REPORT OF THE SYMPOSIUM

Mr. Anish Chanda, Third Year UG – ETCE, and Content Head, IOTA JU Club proposed the Welcome Address and Introduction about IOTA JU Club. Mr. Saptarshi Garai, Third Year UG student Dept. of ETCE, and Management Head, IOTA JU Club has introduced the Speaker to the audience with a brief Bio. The following is the summary of the talk delivered by the speaker & the hands-on training session:

Agenda :

- Introduction
- About IoTA Ju Club
- Importance of IoT as an emerging field in electronics engineering
- Automation and IoT talk and Q&A session
- Hands On Training session and building a home automation project.

The first half of INNOVATIA 2025 commenced with a keynote lecture by Dr. Indrajit Banerjee, who delivered an insightful talk on the concept and functions of the Internet of Things (IoT). He elaborated on its applications in smart cities, highlighting how IoT enables efficient traffic management, waste management, and public safety systems. He further discussed smart cars, explaining the integration of IoT for autonomous driving, sensor-based monitoring, and vehicle-to-vehicle communication. Additionally, Dr. Banerjee explored the intersection of IoT with Artificial Intelligence and Machine Learning, demonstrating how these technologies together can create adaptive, intelligent systems for real-world problem solving. His session concluded with an interactive segment where he addressed questions from the students. Then Dr. Sheli Sinha Chaudhari, Prof. Dept of ETCE, JU delivered a lecture about applications of IoT and conducted a very interactive Q&A Session.

The second half of INNOVATIA 2025 began with an enlightening lecture by Dr. Sayan Chatterjee, Professor at the Department of ETCE, Jadavpur University. He spoke about the importance of IoT in today's technological landscape, highlighting its applications in various sectors and encouraging students to pursue innovations in this field.

Following this, a representative from CBSIOT, the event sponsor, delivered a talk introducing their ongoing work related to IoT and how their solutions are contributing to the industry. They also discussed their association with INNOVATIA, motivating students to engage in such impactful initiatives.

The hands-on workshop session was conducted by Anurag Kar, the Tech Team Lead of IOTA Club, where he demonstrated the development of a home automation circuit using ESP32 and various sensors. He presented the circuit diagram on the projector, guiding students step-by-step to assemble the components on their desks simultaneously.

After the circuit assembly, Anurag explained the code implementation, describing its working principle and logic behind each part of the program. Other IOTA tech team members actively assisted students throughout the session, ensuring each participant could complete their circuit successfully and gain a practical understanding of the concept.

The event concluded with the distribution of participation certificates to all attendees, encouraging them to share their feedback on the session for future improvements. The day ended on a positive note with students expressing their satisfaction and enthusiasm for upcoming IOTA activities.

The Symposium had a total of 61 Participants from Seven Institutes besides JU.

The List of Participated Institutions:

1. Institute of Engineering and Management (IEM), Salt Lake, Kolkata 700091.
2. University of Engineering and Management, Kolkata 700156.
3. Heritage Institute of Technology, Kolkata 700107.
4. Acharya Prafulla Chandra Ray Polytechnic, Kolkata 700032.
5. Manipal University, Jaipur, Rajasthan 303007.
6. Adyapeeth annada polytechnic college, Kolkata 700076.
7. Ramakrishna Mission Shilpapitha, Kolkata 700056.
8. Jadavpur University (JU), Kolkata 700032.

Organized By:

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In Association with:

IEEE Circuits and Systems Society Kolkata Chapter (CASS)

CBSIOT.live (Pioneer Company of IoT Technology)

Haritasa (Electronics Solutions Pvt. Ltd.)

MegathermITS (IT Business Wing - Megatherm Groups)

Faculty Coordinators: Dr. Sheli Sinha Chaudhari | Dr. Chinmoy Ghorai
Prof. P. Venkateshwaran | Dr. Chandrima Mondal

Contact Details | Event Coordinators:

Saptarshi Garai (sgarai.etce.ug@jadavpuruniversity.in)

Anish Chanda (anishc.etce.ug@jadavpuruniversity.in)

Anurag Kar (anuragk.etce.ug@jadavpuruniversity.in)



IoT Applications Club

Jadavpur University, Kolkata-700032, India

Selected Photos of the Symposium Hands-On on “Home Automation Summer Workshop Using IoT” by Dr. Indrajit Banerjee, Department of IT, IEST Shibpur, held at T-3-7, 2nd Floor, Prayukti Bhavan, Jadavpur University on Thursday, 03rd July, 2025.

InnovaTiA
"Hands-On with Minds-On"

ON 03 JULY 2025

WHY SHOULD YOU JOIN?

- Lowest Participation Fee
- Participation Certificate
- Curiosity Starter Kit
- Hands-on IoT Embedded Modules
- Guest Lecturer and Beyond

SPECIAL ADD-ON

- Complimentary Refreshments & Lunch Will Be Provided!
- Enjoy a hassle-free experience while you focus on building and learning.

TEAM ₹1499 20%off (With Kit)
₹1199/-
END OFFER!

SINGLE ₹1099 20%off (With Kit)
₹799/-
END OFFER!

SINGLE ₹249 /- (Without Kit)
END OFFER!

TIME IS RUNNING OUT! **FEW SLOTS LEFT**

Anish Chanda – +91 62908 75571
Saptarshi Garai – +91 89727 44365
Anurag Kar – +91 74395 98560

REGISTER NOW!!

Poster of the Symposium and Hands-On Program on “Home Automation Summer Workshop Using IoT”



Welcome Speech by Anish Chanda (Event Coordinator and Content Lead, IOTA).



Presentation by Guest Lecturer - Dr. Indrajit Banerjee (Prof. Dept. Of IT, IEST Shibpur).



Memento of Appreciation to Dr. Indrajit Banerjee (Prof. Dept. Of IT, IEST Shibpur) by Saptarshi Garai (Event Coordinator and Management Head, IOTA).



Gift of gratitude to Dr. Indrajit Banerjee (Prof. Dept. Of IT, IEST Shibpur) by Saptarshi Garai (Event Coordinator and Management Head, IOTA).



Guest Address Speech by Dr. Chinmoy Ghorai (Prof. Dept. Of TECE, JU).



IoT based Automation Speech by Dr. Sheli Sinha Chaudhari (Prof. Dept. Of ETCE, JU)



Speech of gratitude by Prof. Sudhabindu Ray (HOD, Dept. of ETCE, JU).



Executives from CBS.IOT (Official IoT Kit Sponsor, Innovatia) speech on the workshop program.



Prof. P. Venkateshwaran (Prof. Dept. Of ETCE, JU) mentoring the IOTA Club coordinators throughout the workshop.



2nd Phase Initial Speech on IoT by Prof. Sayan Chatterjee (Prof. Dept. Of ETCE, JU).



2nd Phase Automation Workshop Presentation and Lecture by Anurag Kar (Event Coordinator and Tech Lead, IOTA).



Participants of the Symposium and Hands-On Workshop.



Saptarshi Garai (Event Coordinator and Management Head, IOTA) guiding the participants during the 2nd phase of the workshop.



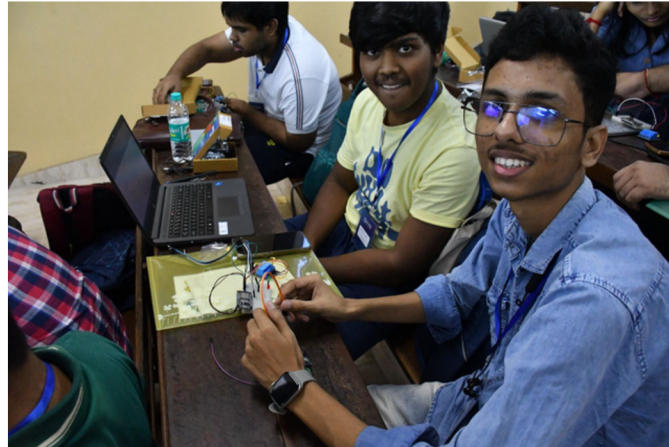
Workshop Participants working throughout the Task-01.



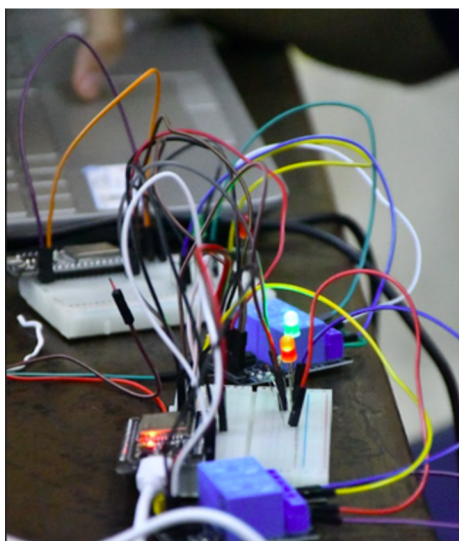
Workshop Participants working throughout the Task-02.



Anurag Kar (Event Coordinator and Tech Lead, IOTA) helping with the process of the Project.



Souvik Karmakar (Event Coordinator, IOTA) helping participants with the process of the Project.



Completed IoT based Home Automation Project by the Participants.



Workshop Ending Speech by Saptarshi Garai (Event Coordinator and PR Lead, IOTA).



Participation and Completion of the Workshop Certificate handover by Prof. Sudhabindu Ray (HOD, Dept. of ETCE, JU).



Participation and Completion of the Workshop Certificate handover by Saptarshi Garai (Event Coordinator).



Group Photo - 01, On-Day Workshop Program Event Volunteers and coordinators.



Group Photo-02, IOTA Club Board Members.
(Left to Right)- Souvik Karmakar, Srijan Roy, Saptarshi Garai, Anish Chanda, Anurag Kar, Parthiv Paul.



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Haritasa (Electronics Solutions Pvt. Ltd.)
MegathermITS (IT Business Wing - Megatherm Groups)

Details of Participants

Sl. No.	Name of the Participants	Affiliation	Signature	FM/PhD /PG/UG
✓ 01.	TANUSHREE MANDAL	IEM SaltLake (CSE IOT)	Tanushree Mandal	UG
✓ 02.	SUTHIRTA DEY	IEM Salt Lake (CSE IOT)	Suthirtha Dey	U.G.
✓ 03.	SAYANTANI DAS	IEM UEM, Kolkata (CSE (IoT, CSBT))	Sayantani Das	Asst. Prof. Assistant Professor.
✓ 04.	SAYAN SINHA ROY	I.E.M Saltlake E.C.E	Sayan Sinha Roy	U.G.
✓ 05.	NITU SAHA	UEM, Kolkata (CSF - IoT, CSBT)	Nitu Saha	Assistant Professor

Note- Affiliation (Your College/University)

FM- Faculty Member / PhD- Scholar / PG- Post-Graduate Student / UG- Under-Graduate Student

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Sl. No.	Name of the Participants	Affiliation	Signature	FM/PhD /PG/UG
06.	SK AKRAM ALI	APC Ray Polytech- nic (DCST)	Sk Akram Ali	UG.
07.	SWAPNAROOB BASU	JADAVPUR UNIVERSITY (ETCE)	Swapnaroop Basu	UG
08.	AARSHI GANGULY	HITK (ECE)	Aarshi Ganguly	UG
09.	RICK DEY	HITK (ECE)	Rick Dey	UG
10.	RITABRATA DAS	Jadavpur University (EE)	Ritabrata Das	UG
11.	SHRAYASI CHAKRABORTY	IEM, Salt Lake. (CSE)	Shrayasi Chakraborty	UG
12.	SHRUTIPARNA ROY	IEM, Salt Lake (CSE)	Shrutiparna Roy	UG
13.	SOUMYADEEP DAS MANDAL	HITK (ECE)	Soumyadeep Das Mandal	UG
14.	ANEESH PAL	Heritage Institute of Technology (ECE)	Aneesh Pal	UG (ECE)
15.	SHREYA HORE	APC (EIE)	Shreya Hore	Diploma.
16.	PRITAM SETH	APC (EIE)	Pritam Seth	Diploma
17.	AKASH PAUL	J. U (E.E)	Akash Paul	UG.
18.	TANMOY MAITY	Jadavpur University (E.E)	Tanmay Maity	UG.
19.	KAUSHIKI HALAR	IIT Madras (Data Science)	Kaushiki Halar	UG
20.	AMANATAUR RAHAMAN	APC Ray Polytechnic (CST)	Amanatur Rahman	UG
21.	ABHISIKTA HANRA	APC Ray Polytechnic (CST)	Abhisikta Hanra	Diploma
22.	SHREYA BANERJEE	APC Ray Polytechnic (CST)	Shreya Banerjee	Diploma

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✓ 23.	BIYAS RAY CHAUDHURI	UEM, KOLKATA	Biyas Ray Chaudhuri	UG
✓ 24.	SAMARAHO MUKHERJEE	UEM-K	Samaraho Mukherjee	UG
✓ 25.	RWITAMA DAS	Manipal University Jaipur	Rwitama Das	UG
✓ 26.	DIPTARKO BHATTACHARJEE	Jadavpur University	Diptarko Bhattacharjee	UG
✓ 27.	AYAN ROY	APC RAY Polytechnic	Ayan Roy	UG
28.	RIMA MONDAL			
✓ 29.	KOUSTAV DUTTA	Tech no main Salt lake	Koustav Dutta	UG
✓ 30.	TANVI JESMI	IEM, Saltlake	Tanvi Jesmi	UG
✓ 31.	KOLEN HANSDA	Jadavpur University	Kolen Hansda	UG
✓ 32.	SOUVIK ROY	Jadavpur University	Souvik Roy	UG-II
✓ 33.	ANADIR PAUL	UEM, Newtown	Anadir Paul	UG
✓ 34.	ARISTA SETH	UEM, Newton	Arista Seth.	UG
✓ 35.	SHRESTH PARSRAMKA	Heritage Instt Institute of Technology Kolkata	Shresth Parsramka	UG
✓ 36.	MAULIK PARARSRAMKA	Heritage Institute of Technology Kolkata	Maulik Pararsramka	UG
✓ 37.	^H SUBADEEP DUTTA	A A P E	Subadeep Dutta	Other
✓ 38.	^S BIWADIP SEWLI	Narula Institute of Technology	Biwadip Sewli	UG
✓ 39.	SAYAN GHANTY	Heritage insti. of technology (BCE)	Sayan Ghanty	UG

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Sl. No.	Name of the Participants	Affiliation	Signature	FM/PhD /PG/UG
40.	Sahana Shaumin	Jadavpur University	Sahana	UG
41.	SA . Samim Akhtar		SA .	PG
42.	Prantik Chakraborty	JU	Prantik	PG.
43.	Arif Ghosh.	J.U.	Arif Ghosh.	Ph.
44.	Koushik Kar	J.U	Koushik Kar	UG-
45.	Pushpal Bhar	J.U.	Pushpal Bhar	UG
46.	Subhojit Khatter	J.U.	Subhojit Khatter	UG
47.	Arman Karmakar	J. U.	Arman Karmakar.	UG 1
48.	Sayak Mitra	JU	Sayak	UG 3
49.	Swatik Pal	JU	Swatik	UG 3
50.	Abhadeep Sarkar	JU	Abhadeep Sarkar	UG 3
51.	Souvik Karmakar	JU	Souvik Karar	UG 3
52.	Sandip Ghosh	JU	Sandip Ghosh	UG-1
53.	Arghya Pratim Biswas	JU	AP Biswas	UG-1
54.	DEVIJAN BISWAS	JU	Devi Jan Biswas	UG-3
55.	Parthiv Paul	JU	Parthiv Paul	UG-3
56.	Anish Chanda	JU	Anish Chanda	UG-3

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57.	Soham Sengupta	JU	Soham Sengupta	UG - III
58.	Saptarshi Garai	JU ETCE	Garai	UG - III
59.	Alexander Bahari	JU	A. Bahari	UG - I
60.	Srijan Roy	JU ETCE	Srijan Roy	UG - III
61.	NAYAN SINGHA	JU.	Nayan Singha	UGC
62.				

Saptarshi Garai
SAPTARSHI GARAI 02/07/25
(Event Coordinator)

Anurag Kar 31/7/25
ANURAG KAR
(Event Coordinator)

Anish Chanda
ANISH CHANDA
(Event Coordinator)



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The Symposium and Hands-On will be held in Physical Mode.
Interested Faculty Members, Ph.D. & PG Scholars, and UG students are invited to attend.
Please register at the link - https://docs.google.com/forms/d/e/1FAIpQLSd6vH8mBZux1-B0AGpB6pecnSZ_MCU_K6ak4XLL59uBsxKnOg/viewform?usp=dialog
Registration Fee (Check in the link). **Participation by Pre-Registration only (Online).**
No Spot Registration.
Last date of registration: July 01, 2025

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Contact Details | Event Coordinators:
Saptarshi Garai (sgarai.etce.ug@jadavpuruniversity.in)
Anish Chanda (anishc.etce.ug@jadavpuruniversity.in)
Anurag Kar (anuragk.etce.ug@jadavpuruniversity.in)



Bio:



Dr. Indrajit Banerjee

 ibanerjee@it.iiests.ac.in

Dr. Indrajit Banerjee is Associate Dean, International Relations & Alumni Affairs and Associate Professor, Department of Information Technology (IT), IEST Shibpur. He did his PhD from the Bengal Engineering and Science University Shibpur in 2014. He received the Chester Sall Award from IEEE Transactions on Consumer Electronics, the USA, in 2016 and 2022 and received several best paper awards. He is researching the IoT, WSN, Cloud Computing, Security, etc. Under his guidance, several students have already completed their PhD work. Dr Banerjee has conducted numerous research projects sponsored by MOIL India, DST India, WB DHESTB, AICTE, UGC, etc. He reviews various international journals, such as IEEE Transactions on Vehicular Technology, IEEE Internet of Things Journal Computer Communication Elsevier, AdHoc Network Journals, etc. He has patents on different IoT devices and has several software copyrights on related software.

 **LinkedIn :** <https://www.linkedin.com/in/dr-indrajit-banerjee-9948b866/>