

DEPARTMENT OF ELECTRICAL ENGINEERING
GROUP WISE PROJECT LIST 5TH SEM ELECTRICAL ENGINEERING

S.NO	GROUP NO	UNIVERSITY ROLL NO	STUDENT NAME	PROJECT TITLE	SUPERVISOR NAME	CERTIFICATE LINK	
1	1	19001007045	SAKSHAM KOHLI	Solar Tracking system	Ms. ANUBHA GAUTAM	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
2		19001007027	MUDIT SHARMA			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
3		19001007058	UTKARSH PANDEY			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
4	2	20001007504	FARMAN	Design E scooter	Dr. Poonam Singhal	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
5		20001007506	MOHIT			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
6	3	19001007050	SHUBHAM NAGIA	Wireless Notice board using GSM		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
7		19001007010	DEVANSH			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
8	4	19001007012	GARVIT	Dual Axis solar tracker	Dr. P.R. Sharma	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
9		19001007020	HITESH			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
10		19001007055	TARUN			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
11		19001007056	UMA SHANKAR			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
12	5	19001007049	SHREYA	IOT BASED CAR PARKING SYSTEM USING ARDUINO		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
13		19001007052	SPARSH			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
14		19001007060	VANDANA			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
15	6	19001007033	PRATEEK NARA	Human Following Robot	Mr. SATVINDER SINGH	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
16		19001007048	SHIVAM			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
17		19001007053	SUJIT			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
18	7	20001007501	AASHISH KUMAR	Protection circuit for Reverse polarity and short circuit condition	Dr. Rajesh Ahuja	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
19		20001007502	ABHISHEK GUPTA			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
20		20001007505	MAYANK SINGH			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
21	8	19001007004	ANUJ SUTHAR	Prepaid energy meter using gsm and arduino	Dr. Anju Gupta	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
22		19001007026	MANISH			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
23		19001007062	VIKASH			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
24	9	19001007028	NEETU	Solar power inverter		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
25		19001007037	RITU			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
26	10	19001007019	HIMANSHU GERA	Wireless energy transmission	Dr. Yogendra Arya	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
27	11	19001007035	RAM	IOT BASED SOLAR TRACKING SYSTEM		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
28		19001007046	SATCHIT			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
29		19001007061	VARUN			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
30	12	19001007001	AASHISH SHAH	String efficiency model of suspension insulator	Dr. Shakuntala	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
31		19001007021	ISH CHALIA			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
32		19001007024	KARTIKAY			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
33	13	19001007009	BHARAT SAINI	Automatic mask	Dr. Sakshi	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
34		19001007014	GAURAV MANGLA			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
35		19001007065	VIVEK YADAV			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
36	14	19001007054	TANNU	Remote control appliances		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
37		19001007059	VAISHNAVI			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
38	15	19001007036	RITIK	Dual Power Generation Solar Plus Windmill system	Dr. Sakshi	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
39		19001007042	SACHIN			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
40		19001007043	SAGAR DHANKAR			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	

41	16	19001007005	APOORV	Arduino bluetooth car		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
42		19001007015	HARSH				
43	17	19001007038	ROHIT	Radar system	Dr. Rashmi Agarwal	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
44		19001007064	VISHNU BHARADWAJ				
45	18	19001007017	HARSH PANDEY	Automated room temperature control system	Ms. Anubha Gautam	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
46		19001007051	SHUBHI KHEMKHA				
47	19	19001007018	HIMANSHU BHARTI	Waste to electrical energy	Mr SATVINDER SINGH	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
48		19001007063	VIKRAM				
49	20	19001007003	ANKOLA	Black line follower robot	Dr. Rashmi Agarwal	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
50		19001007023	JYOTI				
51		19001007039	ROHIT				
52	21	19001007002	ANKIT YADAV	Automatic Hand Sanitizer	Ms. Shipra Aggarwal	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
53		19001007040	ROHIT KUMAR				
54		19001007057	UMESH				
55	22	19001007008	BHANU	Laser Security System Using arduino		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
56		19001007022	ISHAN				
57	23	19001007007	ASMI	Automatic smart car barrier system with Arduino	Ms. Rachna	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
58		19001007031	PALAK				
59	24	19001007034	PRINCE	Smart dustbin		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
60		19001007068	BHAWANA				
61	25	19001007066	YASH TYAGI	Automatic power factor correction using Arduino	Mr. Nitin Goel	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
62		19001007067	ANKUSH				
63		19001007047	SHINTU				
64	26	19001007011	DHAKSH SADWAL	Obstacle Avoiding robot	Ms. Bharti Thakur	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
65		20001007507	PARUL SHARMA				
66	27	20001007508	SHIVANI	SOLAR POWER INVERTER WITH SINGLE AC OUTPUT		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
67		19001007006	ASHUTOSH				
68	28	18001007002	ABHISHEK CHOUDHARY	Arduino based solar tracking system	Mr. Nitin Goel	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
69	29	20001007503	ANURAG SHARMA	Smartphone controlled home lighting system using microcontroller and Bluetooth device			
70	30	19001007013	GAURAV DAGAR	Inverter	Mr. Aatmaram	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
71		19001007044	SAHIL BHATI				
72	31	19001007032	PAWAN	Clap control home automation		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	
73		19001007030	NISHANT				
74	32	19001007506	Rahul	Variable DC source	Mr. Satvinder Narwal	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing	



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Certificate of Participation

This is to certify that Mr./Ms. **Saksham Kohli** having roll number **19001007045** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Solar Tracking System** under the supervision of **Ms. Anubha Gautam, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

Satvinder

Mr. Satvinder Singh
**PROJECT
COORDINATOR**

Poonam

Dr. Poonam Singhal
**CHAIRPERSON
ELECTRICAL ENGG.**



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This is to certify that Mr./Ms. **Mudit Sharma** having roll number **19001007027** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Solar Tracking System** under the supervision of **Ms. Anubha Gautam, Department of Electrical Engineering** J.C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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Mr. Satvinder Singh
PROJECT
COORDINATOR

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Dr. Poonam Singhal
CHAIRPERSON
ELECTRICAL ENGG.



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This is to certify that Mr./Ms. **Utkarsh Pandey** having roll number **19001007058** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Solar Tracking System** under the supervision of **Ms. Anubha Gautam, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Farman** having roll number **20001007504** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Design E scooter** under the supervision of **Dr. Poonam Singhal, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Mohit** having roll number **20001007506** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Design E scooter** under the supervision of **Dr. Poonam Singhal, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Shubham Nagia** having roll number **19001007050** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Wireless Notice Board using GSM** under the supervision of **Dr. Poonam Singhal, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Devansh** having roll number **19001007010** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Wireless Notice Board using GSM** under the supervision of **Dr. Poonam Singhal, Department of Electrical Engineering J.C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Garvit** having roll number **19001007012** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Dual Axis Solar Tracker** under the supervision of **Dr. P.R. Sharma, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Hitesh** having roll number **19001007020** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Dual Axis Solar Tracker** under the supervision of **Dr. P.R. Sharma, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Uma Shankar** having roll number **19001007056** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Dual Axis Solar Tracker** under the supervision of **Dr. P.R. Sharma, Department of Electrical Engineering** **J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Tarun** having roll number **19001007055** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Dual Axis Solar Tracker** under the supervision of **Dr. P.R. Sharma, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Shreya** having roll number **19001007049** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **IOT BASED CAR PARKING SYSTEM USING ARDUINO** under the supervision of **Dr. P.R. Sharma, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Sparsh** having roll number **19001007052** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **IOT BASED CAR PARKING SYSTEM USING ARDUINO** under the supervision of **Dr. P.R. Sharma, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Vandana** having roll number **19001007060** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **IOT BASED CAR PARKING SYSTEM USING ARDUINO** under the supervision of **Dr. P.R. Sharma**, **Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

Mr. Satvinder Singh
**PROJECT
COORDINATOR**

Dr. Poonam Singhal
**CHAIRPERSON
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Certificate of Participation

This is to certify that Mr./Ms. **Prateek Nara** having roll number **19001007033** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Human Following Robot** under the supervision of **Mr. Satvinder Narwal, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

A handwritten signature in blue ink that appears to read 'Satvinder'.

Mr. Satvinder Singh
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A handwritten signature in blue ink that appears to read 'Poonam'.

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Certificate of Participation

This is to certify that Mr./Ms. **Sujit Kumar** having roll number **19001007053** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Human Following Robot** under the supervision of **Mr. Satvinder Narwal, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Shivam** having roll number **19001007048** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Human Following Robot** under the supervision of **Mr. Satvinder Narwal, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Aashish Kumar** having roll number **20001007501** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Protection circuit for Reverse polarity and short circuit condition** under the supervision of **Dr. Rajesh Ahuja, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Abhishek Gupta** having roll number **20001007502** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Protection circuit for Reverse polarity and short circuit condition** under the supervision of **Dr. Rajesh Ahuja, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Mayank Singh** having roll number **20001007505** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Protection circuit for Reverse polarity and short circuit condition** under the supervision of **Dr. Rajesh Ahuja, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Anuj** having roll number **19001007004** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Prepaid energy meter using GSM and Arduino** under the supervision of **Dr. Rajesh Ahuja, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Manish** having roll number **19001007026** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Prepaid energy meter using GSM and Arduino** under the supervision of **Dr. Rajesh Ahuja, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Vikas** having roll number **19001007062** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Prepaid energy meter using GSM and Arduino** under the supervision of **Dr. Rajesh Ahuja, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Neetu** having roll number **19001007028** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Solar Power Inverter** under the supervision of **Dr. Anju Gupta, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Ritu** having roll number **19001007037** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Solar Power Inverter** under the supervision of **Dr. Anju Gupta, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Himanshu Gera** having roll number **18001007019** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Wireless Energy Transmission** under the supervision of **Dr. Anju Gupta, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Ram** having roll number **18001007035** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **IOT Based Solar Tracking System** under the supervision of **Dr. Yogendra Arya, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Satchit** having roll number **19001007046** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **IOT Based Solar Tracking System** under the supervision of **Dr. Yogendra Arya, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Varun** having roll number **19001007061** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **IOT Based Solar Tracking System** under the supervision of **Dr. Yogendra Arya, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Aashish Shah** having roll number **19001007001** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **String efficiency model of suspension insulator** under the supervision of **Dr. Yogendra Arya, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Ish Chalia** having roll number **19001007021** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **String efficiency model of suspension insulator** under the supervision of **Dr. Yogendra Arya, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Kartikay** having roll number **19001007024** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **String efficiency model of suspension insulator** under the supervision of **Dr. Yogendra Arya, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Bharat Saini** having roll number **19001007009** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automatic Mask** under the supervision of **Dr. Shakuntala, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Gaurav Mangla** having roll number **19001007014** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automatic mask** under the supervision of **Dr. Shakuntala, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Vivek Yadav** having roll number **19001007065** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automatic Mask** under the supervision of **Dr. Shakuntala, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Tannu** having roll number **19001007054** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Remote Control Appliances** under the supervision of **Dr. Shakuntala, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Vaishnavi** having roll number **19001007059** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Remote Control Appliances** under the supervision of **Dr. Shakuntala, Department of Electrical Engineering** **J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Ritik** having roll number **19001007036** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Dual Power Generation Solar Plus Windmill system** under the supervision of **Dr. Sakshi, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Sachin** having roll number **19001007042** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Dual Power Generation Solar Plus Windmill system** under the supervision of **Dr. Sakshi, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Sagar Dhankar** having roll number **19001007043** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Dual Power Generation Solar Plus Windmill system** under the supervision of **Dr. Sakshi, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Apoorv** having roll number **19001007005** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Arduino Bluetooth Car** under the supervision of **Dr. Sakshi, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Harsh** having roll number **19001007015** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Arduino Bluetooth Car** under the supervision of **Dr. Sakshi, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Vishnu Bharadwaj** having roll number **19001007064** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Radar System** under the supervision of **Dr. Rashmi Agarwal, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Rohit** having roll number **19001007038** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Radar System** under the supervision of **Dr. Rashmi Agarwal, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Harsh Pandey** having roll number **19001007017** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automated room temperature control system** under the supervision of **Ms. Anubha Gautam**, **Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Shubhi Khemka** having roll number **19001007051** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automated room temperature control system** under the supervision of **Ms. Anubha Gautam**, **Department of Electrical Engineering J.C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

A handwritten signature in blue ink that appears to read 'Satvinder'.

Mr. Satvinder Singh
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COORDINATOR**

A handwritten signature in blue ink that appears to read 'Poonam'.

Dr. Poonam Singhal
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Certificate of Participation

This is to certify that Mr./Ms. **Himanshu Bharti** having roll number **19001007018** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Waste to Electrical Energy** under the supervision of **Mr. Satvinder Narwal, Department of Electrical Engineering J.C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Vikram** having roll number **19001007063** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Waste to Electrical Energy** under the supervision of **Mr. Satvinder Narwal, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Ankola** having roll number **19001007003** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Black Line Follower Robot** under the supervision of **Dr. Rashmi Agarwal**, **Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Rohit** having roll number **19001007039** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Black Line Follower Robot** under the supervision of **Dr. Rashmi Agarwal**, **Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

Satvinder

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This is to certify that Mr./Ms. **Jyoti** having roll number **19001007023** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Black Line Follower Robot** under the supervision of **Dr. Rashmi Agarwal**, **Department of Electrical Engineering** **J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. Ankit Yadav having roll number 19001007002 semester Fifth of Electrical Engineering Department has successfully completed his/her research project on Automatic Hand Sanitizer under the supervision of Ms. Shipra Aggarwal, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

Satvinder

Mr. Satvinder Singh
PROJECT
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Shipra

Dr. Poonam Singh
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This is to certify that Mr./Ms. **Rohit Kumar** having roll number **19001007040** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automatic Hand Sanitizer** under the supervision of **Ms. Shipra Aggarwal, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Umesh** having roll number **19001007057** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automatic Hand Sanitizer** under the supervision of **Ms. Shipra Aggarwal, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Bhanu** having roll number **19001007008** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Laser Security System Using Arduino** under the supervision of **Ms. Shipra Aggarwal, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Ishan** having roll number **19001007022** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Laser Security System Using Arduino** under the supervision of **Ms. Shipra Aggarwal, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Asmi** having roll number **19001007007** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automatic smart car barrier system with Arduino** under the supervision of **Ms. Rachna, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Palak** having roll number **19001007031** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automatic smart car barrier system with Arduino** under the supervision of **Ms. Rachna, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Prince** having roll number **19001007034** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Smart Dustbin** under the supervision of **Ms. Rachna, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Bhawana** having roll number **19001007068** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Smart Dustbin** under the supervision of **Ms. Rachna, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Yash Tyagi** having roll number **19001007066** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automatic power factor correction using Arduino** under the supervision of **Mr. Nitin Goel**, **Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Ankush** having roll number **19001007067** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automatic power factor correction using Arduino** under the supervision of **Mr. Nitin Goel, Department of Electrical Engineering** J.C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Shintu** having roll number **19001007047** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Automatic power factor correction using Arduino** under the supervision of **Mr. Nitin Goel, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Daksh Sadwal** having roll number **19001007011** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Obstacle Avoiding Robot** under the supervision of **Ms. Bharti Thakur, Department of Electrical Engineering** **J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Parul Sharma** having roll number **20001007507** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Obstacle Avoiding Robot** under the supervision of **Ms. Bharti Thakur, Department of Electrical Engineering** **J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Ashutosh** having roll number **19001007006** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Solar Power Inverter with Single AC Output** under the supervision of **Mr. Bharti Thakur, Department of Electrical Engineering J.C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Shivani** having roll number **20001007508** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Solar Power Inverter with Single AC Output** under the supervision of **Ms. Bharti Thakur, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Abhishek Choudhary** having roll number **18001007002** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Arduino Based Solar Tracking System** under the supervision of **Mr. Nitin Goel, Department of Electrical Engineering** J. C. Bose University of Science and Technology, YMCA, Faridabad during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Anurag Sharma** having roll number **20001007503** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Smartphone controlled home lighting system using microcontroller and Bluetooth device** under the supervision of **Mr. Nitin Goel, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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Certificate of Participation

This is to certify that Mr./Ms. **Gaurav Dagar** having roll number **19001007013** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Inverter** under the supervision of **Mr. Atma Ram, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Sahil Bhati** having roll number **19001007044** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Inverter** under the supervision of **Mr. Atma Ram, Department of Electrical Engineering J.C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Pawan** having roll number **19001007032** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Clap Control Home Automation** under the supervision of **Mr. Atma Ram, Department of Electrical Engineering** **J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Nishant** having roll number **19001007030** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Clap Control Home Automation** under the supervision of **Mr. Atma Ram, Department of Electrical Engineering** **J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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This is to certify that Mr./Ms. **Rahul** having roll number **19001007506** semester **Fifth** of **Electrical Engineering Department** has successfully completed his/her research project on **Variable DC Source** under the supervision of **Mr. Satvinder Narwal, Department of Electrical Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad** during session Sept 2021 to Jan 2022.

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