

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		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	Dr.Anju Gupta	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		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
27	11	19001007035	RAM	IOT BASED SOLAR TRACKING SYSTEM	Dr. Yogendra Arya	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		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. Shakuntala	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
42		19001007015	HARSH			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
43	17	19001007038	ROHIT	Radar system	Dr. Rashmi Agarwal	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
44		19001007064	VISHNU BHARADWAJ			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
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
46		19001007051	SHUBHI KHEMKA			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
47	19	19001007018	HIMANSHU BHARTI	Waste to electrical energy	Mr SATVINDER SINGH	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
48		19001007063	VIKRAM			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
49	20	19001007003	ANKOLA	Black line follower robot	Dr. Rashmi Agarwal	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
50		19001007023	JYOTI			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
51		19001007039	ROHIT			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
52	21	19001007002	ANKIT YADAV	Automatic Hand Sanitizer	Ms. Shipra Aggarwal	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
53		19001007040	ROHIT KUMAR			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
54		19001007057	UMESH			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
55	22	19001007008	BHANU	Laser Security System Using arduino		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
56		19001007022	ISHAN			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
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
58		19001007031	PALAK			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
59	24	19001007034	PRINCE	Smart dustbin		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
60		19001007068	BHAWANA			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
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
62		19001007067	ANKUSH			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
63		19001007047	SHINTU			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
64	26	19001007011	DHAKSH SADWAL	Obstacle Avoiding robot	Ms. Bharti Thakur	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
65		20001007507	PARUL SHARMA			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
66	27	20001007508	SHIVANI	SOLAR POWER INVERTER WITH SINGLE AC OUTPUT		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
67		19001007006	ASHUTOSH			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
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
69	29	20001007503	ANURAG SHARMA	Smartphone controlled home lighting system using microcontroller and Bluetooth device		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
70	30	19001007013	GAURAV DAGAR	Inverter		https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
71		19001007044	SAHIL BHATI			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
72	31	19001007032	PAWAN	Clap control home automation	Mr. Aatmaram	https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
73		19001007030	NISHANT			https://drive.google.com/file/d/1hMDism8myCMuuXth_IbXl6vMfP-Sulua/view?usp=sharing
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.

Mr. Satvinder Singh
**PROJECT
COORDINATOR**

Dr. Poonam Singhal
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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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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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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.

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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.

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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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Certificate of Participation

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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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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Certificate of Participation

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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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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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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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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Certificate of Participation

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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Certificate of Participation

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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Certificate of Participation

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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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.

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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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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.

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Certificate of Participation

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.

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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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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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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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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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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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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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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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