

# **J. C. Bose University of Science and Technology, YMCA**

## **Department of Electrical Engineering**

### **Activity Report**

**Name of the Activity:** Value Added Course in “LTspice Circuit Simulation and Analysis Fundamentals” Feb-May 2024

Name of department/ Section/ cell conducting the activity	Department of Electrical Engineering
In coordination with (if any)	NA
Date of Conduct	Feb 2024
Activity Coordinator	Mr Nitin Goel, Dr Shakuntla and Atma Ram Assistant Professor, Department of Electrical Engg. JCBUST, YMCA, Faridabad
Amount Spent	NIL
Funding/ grant from (University/ Industry/ UGC/ AICTE/ DST/ TEQIP/ Outside Society/ agency/others (mention)	NIL
Target audience:	Undergraduate Students
No. of beneficiaries	67
Details of Experts	Mr. Nitin Goel and Dr. Shakuntla Assistant Professor, Department of Electrical Engg. JCBUST, YMCA, Faridabad
Brief Description of the event	This course offered comprehensive hands-on training in simulating a wide range of power electronics devices using MATLAB/Simulink and LT Spice. Participants modeled and analyzed devices, including rectifiers, DC-DC converters, and inverters, with these industry-standard tools. The curriculum emphasized detailed circuit design and practical analysis techniques. Upon successful completion, students developed the capability to design and assess professional electrical power converter circuits, particularly tailored for electric vehicle applications. These skills are highly valuable for meeting current industry requirements and advancing expertise in power electronics simulation.

Attach a Brochure of the event

**J. C. Bose University of Science and Technology, YMCA, Faridabad**

**Value Added Course**  
2024-25

**Power Electronics Circuits Simulation using LTSpice and MATLAB Simulink**

**Offered by**  
**Department of Electrical Engineering**



**Coordinators & Resource Persons**  
Nitin Goel, Dr. Shakuntla & Atma Ram  
Assistant Professor, Electrical Engg.

**Chairperson**  
**Dr. Anju Gupta**

The certificate will be provided on successful completion of the course

Attach certificate of the event

**J. C. Bose University of Science & Technology, YMCA, Faridabad (HR)**  
(Accredited A+ Grade by NAAC)



**CERTIFICATE OF COMPLETION**  
**Value Added Course in**  
**Power Electronics Circuits Simulation using LTSpice and MATLAB Simulink**

This is to certify that Mr./Ms. \_\_\_\_\_ Roll No. \_\_\_\_\_ of  
B.Tech 4<sup>th</sup> Semester Electrical Engineering has successfully completed the Value-Added  
Course in "Power Electronics Circuits Simulation using LTSpice and MATLAB Simulink"  
conducted by the Department of Electrical Engineering, J. C. Bose University of Science  
and Technology, YMCA, Faridabad during Feb-May 2024.

**NITIN GOEL**  
COORDINATOR

**DR. SHAKUNTLA**  
COORDINATOR

**CHAIRPERSON**  
ELECTRICAL ENGG.

Any other information

NA

# **J C Bose University of Science and Technology, YMCA Faridabad**

## **Department of Electrical Engineering**

**Value Added Course in “Power Electronics Circuits Simulation using LTSpice and MATLAB Simulink”**

### **List of Students**

Sr. No.	Roll Number	Student Name	Branch	Semester
1	22001007001	Aaditya Kumar	EL	4 <sup>th</sup>
2	22001007003	Aditya	EL	4 <sup>th</sup>
3	22001007005	Aman	EL	4 <sup>th</sup>
4	22001007006	Aman Keshri	EL	4 <sup>th</sup>
5	22001007008	Anirudh Sharma	EL	4 <sup>th</sup>
6	22001007009	Anjali Kumari	EL	4 <sup>th</sup>
7	22001007011	Ansh Kumar	EL	4 <sup>th</sup>
8	22001007012	Anusha Chauhan	EL	4 <sup>th</sup>
9	22001007013	Anushka	EL	4 <sup>th</sup>
10	22001007014	Anushka Sharma	EL	4 <sup>th</sup>
11	22001007016	Aryan Chauhan	EL	4 <sup>th</sup>
12	22001007017	Ashish	EL	4 <sup>th</sup>
13	22001007018	Ayush Ranjan	EL	4 <sup>th</sup>
14	22001007019	Ayush Singh	EL	4 <sup>th</sup>
15	22001007020	Chirag	EL	4 <sup>th</sup>
16	22001007021	Devanshi Verma	EL	4 <sup>th</sup>
17	22001007022	Disha Kaushik	EL	4 <sup>th</sup>
18	22001007023	Dushyant Sharma	EL	4 <sup>th</sup>
19	22001007024	Eeva Jayant	EL	4 <sup>th</sup>
20	22001007025	Gaurav	EL	4 <sup>th</sup>
21	22001007027	Gunjan Vashist	EL	4 <sup>th</sup>
22	22001007028	Harsh	EL	4 <sup>th</sup>
23	22001007029	Harshit Patel	EL	4 <sup>th</sup>
24	22001007030	Harshit Tewatia	EL	4 <sup>th</sup>
25	22001007031	Ishika Bhardwaj	EL	4 <sup>th</sup>
26	22001007032	Kashika	EL	4 <sup>th</sup>
27	22001007033	Khushhal	EL	4 <sup>th</sup>
28	22001007035	Krishan	EL	4 <sup>th</sup>
29	22001007036	Kuldeep	EL	4 <sup>th</sup>
30	22001007037	Lakshita Vatsa	EL	4 <sup>th</sup>
31	22001007038	Lucky	EL	4 <sup>th</sup>
32	22001007039	Mandeep Mormal	EL	4 <sup>th</sup>
33	22001007040	Mohan	EL	4 <sup>th</sup>
34	22001007041	Mohit Saini	EL	4 <sup>th</sup>

35	22001007042	Naveen	EL	4 <sup>th</sup>
36	22001007043	Naveen Kumar	EL	4 <sup>th</sup>
37	22001007044	Pallavi Mishra	EL	4 <sup>th</sup>
38	22001007045	Pawan Kumar	EL	4 <sup>th</sup>
39	22001007046	Phool Vishakha	EL	4 <sup>th</sup>
40	22001007047	Piyush Kumar Singh	EL	4 <sup>th</sup>
41	22001007048	Priyanka Mishra	EL	4 <sup>th</sup>
42	22001007049	Rahul	EL	4 <sup>th</sup>
43	22001007050	Rajat	EL	4 <sup>th</sup>
44	22001007051	Raman	EL	4 <sup>th</sup>
45	22001007052	Ravi	EL	4 <sup>th</sup>
46	22001007053	Reena	EL	4 <sup>th</sup>
47	22001007054	Sagar	EL	4 <sup>th</sup>
48	22001007055	Sahil	EL	4 <sup>th</sup>
49	22001007056	Saloni	EL	4 <sup>th</sup>
50	22001007057	Siddharth	EL	4 <sup>th</sup>
51	22001007058	Sonu Kumar	EL	4 <sup>th</sup>
52	22001007059	Sumant Kumar	EL	4 <sup>th</sup>
53	22001007060	Tanmay Dubey	EL	4 <sup>th</sup>
54	22001007061	Tanu Dixit	EL	4 <sup>th</sup>
55	22001007062	Tanvi Gandhi	EL	4 <sup>th</sup>
56	22001007063	Vevak Kumar	EL	4 <sup>th</sup>
57	22001007064	Vinayak Soman	EL	4 <sup>th</sup>
58	22001007065	Yash Soni	EL	4 <sup>th</sup>
59	23001007501	Ankur	EL	4 <sup>th</sup>
60	23001007502	Aryan Singh	EL	4 <sup>th</sup>
61	23001007504	Haider Ali	EL	4 <sup>th</sup>
62	23001007505	Ishika	EL	4 <sup>th</sup>
63	23001007506	Piyush	EL	4 <sup>th</sup>
64	23001007507	Ravinder	EL	4 <sup>th</sup>
65	23001007508	Sahil Baisla	EL	4 <sup>th</sup>
66	23001007509	Shreya Mishra	EL	4 <sup>th</sup>
67	23001007510	Shubham Saurav	EL	4 <sup>th</sup>