



PRESIDENCY UNIVERSITY

(Private University Estd. in Karnataka State by Act No.41 of 2013)

29/04/2021

To,
Mr. Suraj JR
Hardware Design Engineer
Simpleenergy Pvt Ltd

Dear Sir,

Greetings of the day from Presidency University, Bengaluru!!!


We are very honoured to introduce ourselves to you as Department of Electrical and Electronics Engineering, School of Engineering, Presidency University, Bengaluru. We are one of the most renowned Institutes for higher Education in India. Presidency University is a constituent of the Presidency Group of Institutions [PGI], which has and continues to be active for more than a decade and half in higher education.

We are grateful to you for accepting our invitation as a guest speaker for a session on -“**Designing of automotive grade electronic circuits**” on 4th May 2022 (Wednesday) at 03:00 pm. This event is organized to encourage and enlighten students about the AEQ Standards for automotive electronics, filter design, various DC-DC Converters and PCB Design. This programme has been planned to conduct offline and the coordinators will guide you in advance. As you are one amongst the well-known in the area of your specialization and expertise, we are very sure your deliberation and participation will surely benefit the participants. The target audience will be research scholars and students. We believe this interaction will continue for long fruitful educational and professional exchanges.

We believe this date will suit you and your acceptance at the earliest is highly appreciated.

We look forward to the limitless possibilities of this relationship. With great happiness we are looking forward for your session.

Sincerely


Dr V Joshi Manohar
Head of the Department
Electrical and Electronics Engineering
School of Engineering
HOD EEE
PRESIDENCY UNIVERSITY
Rajankunte, Yelahanka, Bengaluru -64

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PU-SOE-EEE 2021-22

REF.NO.PU/ SOE/ EEE /2021-22/CIR/FORUM/04

02-05-2022

CIRCULAR

Industrial Expert Interactive Session

on

“Designing of Automotive Grade Electronic Circuits”

All the students of 4EEE-1 and 6EEE-1 are informed that an interactive session on “**Designing of Automotive Grade Electronic Circuits**” has been scheduled on **4th May 2022 at 03:05 pm** by Department of EEE, Presidency University, Bengaluru. In this connection, all are instructed to attend the same and interact with the expert without fail.

“Attendance is compulsory and will be recorded and marked in ERP”.

Resource person: **Mr. Suraj JR**
Hardware Design Engineer
Simple Energy Pvt Ltd, Bengaluru
<https://www.simpleenergy.in/>

Date: 4th May 2022
Day: Wednesday
Time: 3:05 pm
Venue: F Block Seminar Hall

Co-ordinators
Mr Bishakh Paul
Ms Jisha LK

Dr V Joshi Manohar
Head of the Department
Electrical and Electronics Engineering
School of Engineering
HOD-EEE
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Rajanukunte, Yeshwantha, Bengaluru -64

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Industrial Expert Interactive Session on “Designing of automotive grade Electronic circuits” under Forum Activity Even / Winter Semester 2021-22

04-May-2022

The session is being organised by the course in charges of Mr. Bishakh Paul and Mr. Sreekanth Reddy for the **courses of EEE 319 Electric Vehicles, EEE1005 Electric vehicles and Battery Technology and EEE3036 Battery management systems**, to create awareness on industrial operations, challenges and opportunities in EV sector.

The faculty coordinator **Ms. Ragasudha C P** addressed the importance of session to students and student coordinator **Ms. Babitha** introduced the speaker. **Mr. Suraj JR**, Hardware design engineer in Simple energy Pvt.ltd. started his presentation on “Designing of automotive grade electronic circuits” for EEE students under the department forum activities on 4th May 2022 at Presidency University in Room No. UF-01 between 3:05-4:40 PM.

The speaker presented the prospects for electrical engineering students in the era of electrified cars in an extremely interactive manner. The hardware and software tools were explained and enlightened the students with possible opportunities in electric vehicle modelling, design of power electronic converter circuits and the role of battery management system in EVs. This hasSome of the tools like Webench power designer online circuit designing tool was demonstrated along with the communication tools i.e., CAN, J1939 Stack and UDS used in EV’s. Research topics under this field have been explained. He also went through the many types of hardware design (such as motor control, ADAS, and BMS) and software design (such as ADC's, CAN, and Motor Control Algorithms). He also discussed GaN MOSFETs (Galium nitrate MOSFETs), which are currently being researched. He also addressed the importance of power electronic converters (such as the

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BUCK Converter) that are utilized in electric vehicles. Along with them BMS (Battery Management System) is explained which is a crucial part in electrical vehicles with examples (eg:-recent ola incident was discussed). Also R&D (Research and development) sector opportunities have been enlightened (FAST CHARGING, WIRING HARNESS, DRIVER ASSIST SYSTEM etc..., have pointed out. He had shown some of the circuit boards which were done by him to the students. He also suggested some of the reference books for the field requirement and study purpose.

The session was highly interactive and useful for the student community, and all the student queries were well addressed by the speaker.

Here are a few instances of the geo tag images captured during the session:



Fig. 1. Speaker introduction to the topic.

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Fig. 2. Describing the tools and tips regarding hardware and software design of vehicles by the speaker



Fig. 3. Deliberating the design parameters of automotive vehicles

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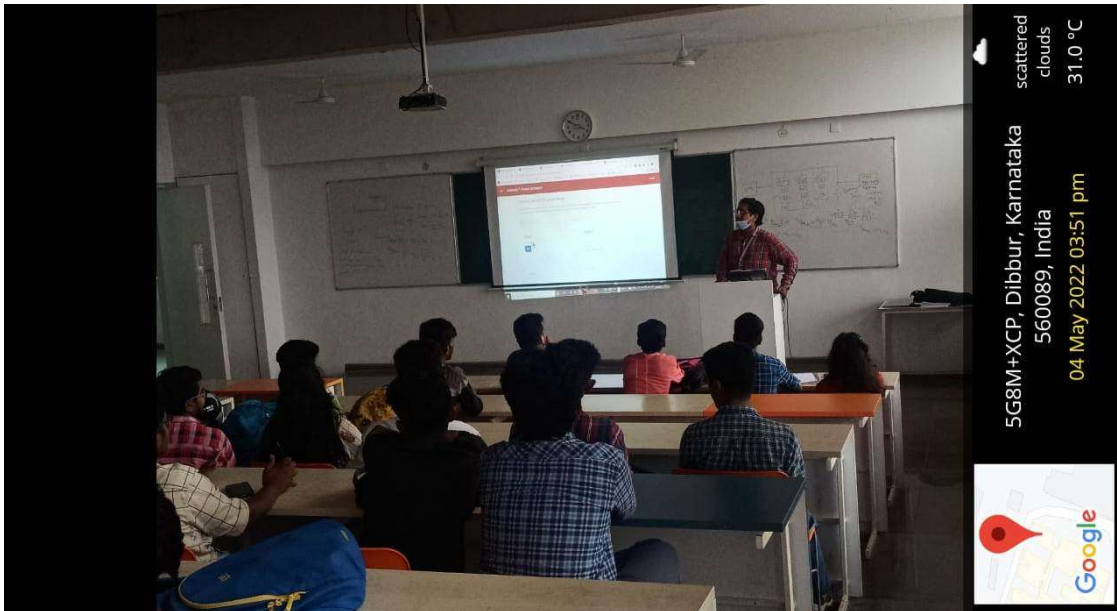
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scattered clouds 31.0 °C

5G8M+XCP, Dibbur, Karnataka 560089, India
04 May 2022 03:51 pm

Fig. 4. Presenting Webench Power Designer features and importance

The session ended at 4:40 PM with vote of thanks by **Mr. Abhishek T T**, student coordinator of the event.

Signature of student coordinators	Signature of Faculty coordinators
Mr. KARTHIKEYAN REDDY <i>[Signature]</i>	<i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i>
Ms. ASFIYA AAZIM <i>[Signature]</i>	
Ms. BABITHA GAIKWAD G <i>[Signature]</i>	
Mr. ABHISHEK T T <i>[Signature]</i>	

<i>[Signature]</i> HoD, EEE Head of the Department Electrical and Electronics Engineering School of Engineering Presidency University	<i>[Signature]</i> Associate Dean Associate Dean (Core Branches) School of Engineering, Presidency University	<i>[Signature]</i> Dean - SoE Dean, SoE Presidency University
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ATTENDANCE SHEET

Name of the Event: "Designing of Automotive Grade Electronic Circuits"

Resource Person: Mr. Suraj JR,
Hardware Design Engineer
Simple Energy Pvt Ltd, Bangaluru

Date & Time 04-05-2022, 3.00PM to 4.30PM

Venue F-Block Seminar Hall

S.No.	Student ID No	Name	Signature
1.	20211LEE0002	T.perumal.	T.perumal.
2.	20201EEE0015	Abhishek.T.T	Abhishek.T.T
3.	20211LEE0030	Babitha.G	Babitha.G.
4.	20211LEE0017	Narayan R.N	Narayan R.N
5.	20211LEE0019	G. Tarun	G. Tarun
6.	20191EEE0035	Sagar.B	Sagar.B
7.	20191EEE0049	Varsha B. N	Varsha B. N
8.	20191EEE0050	Naveen.Y	Naveen.Y
9.	20191EEE0038	Sanjay.P	Sanjay.P
10.	20191EEE0022	Nanda Kishore.	Nanda Kishore.
11.	20191EEE0013	K. Jayam	K. Jayam
12.	20191EEE0058	TouFeeq	TouFeeq
13.	20201EEE0012	YOGESHWARAN.G	YOGESHWARAN.G
14.	20211LEE0001	Deep Chatterjee	Deep Chatterjee
15.	20211LEE0015	Nagendra.B	Nagendra.B
16.	20211LEE0029	Abhi.T.T	Abhi.T.T
17.	20211LEE0023	Ritesh Chikhalinge Gowda	Ritesh Chikhalinge Gowda
18.	20201EEE0011	Sai Nayana.	Sai Nayana.



GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

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19.	Rakshita B.	20201EEF0005	Do AB AB
20	Hanisa Sheri R	20211LEF0012	Do
21	Nisad J.P.	20211LEF0016	Do
22	Musuli A.V	20211LEF0018	Musuli A.V
23	Charan Reddy S.V	20211LEF0013	Charan Reddy S.V
24.	Yashaswini B.G	20201EEF0022	Y.B.G
25	Kushal R	20211LEF0027	Do
26	Charan P	20211LEF0021	Do
27	Rohit E. Mathapati	20211LEF0010	Ruathapati
28	Kishore Teja S.N.	20211LEF0011	Do
29	Ambika M.B	20211LEF0014	Do
30	Sanjay B	20191EEF0037	Sanjay
31	Shabbirahmad	20191EEF0059	Do
32	M. Kaethi Kojan Reddy	20191EEF0015	Do
33	R.S. Shaikh	20191EEF0032	R.S. Shaikh
34	Md Zaid Forooq	20191EEF0017	Amir (Md) Shams
35	Sharanya P.C	20191EEF0042	Shams
36	Girish Reddy M	20201LEF0011	Girish Reddy
37	Sambhram	20191EEF0036	Sams
38	Ason S	20191EEF0004	Shetty
39	Asfiya	20191EEF0005	Asf..
40			

04/5/22
Coordinator
04/5/22
04/05/2022

04/5/2022
Head of the Department

Head of the Department
Electrical and Electronics Engineering
School of Engineering
PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru -54

Feedback of Industrial Expert Interactive Session on "Designing of Automotive Grade Electronic Circuits" Organized by department of EEE, Presidency University, Bangalore

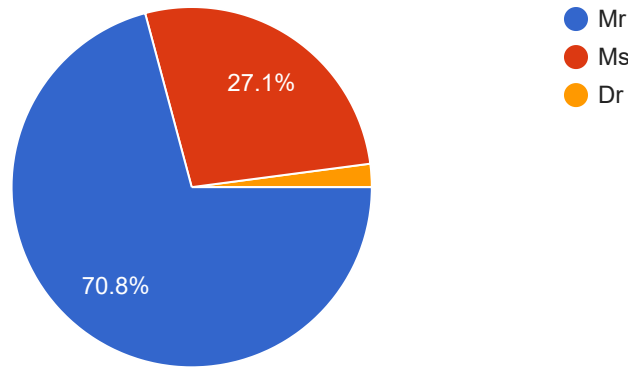
48 responses

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Salutation

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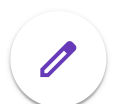
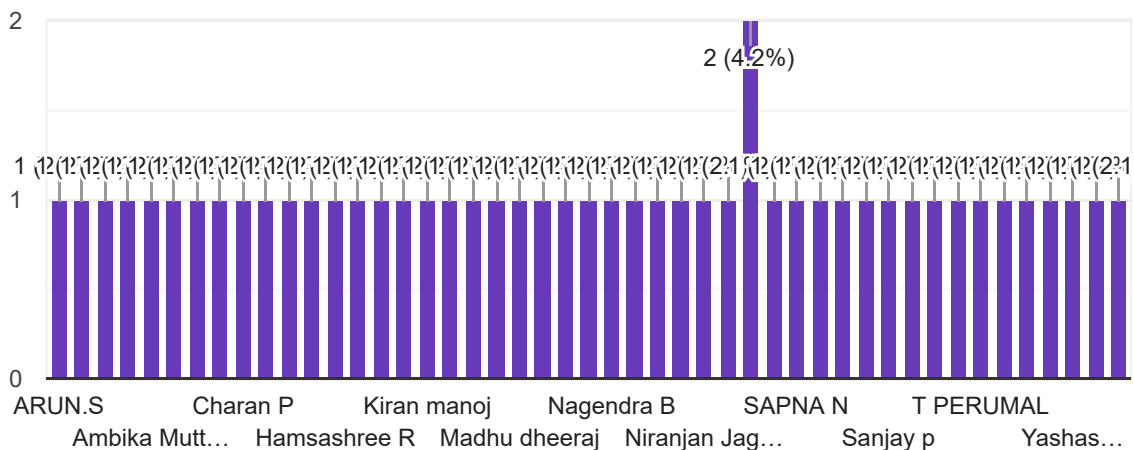
48 responses



Name

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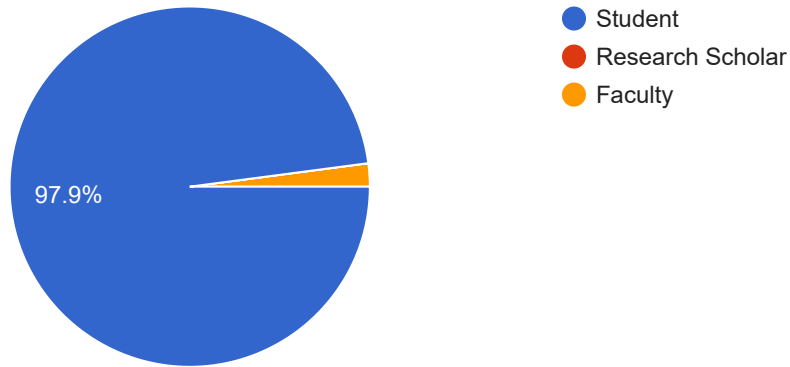
48 responses



Designation

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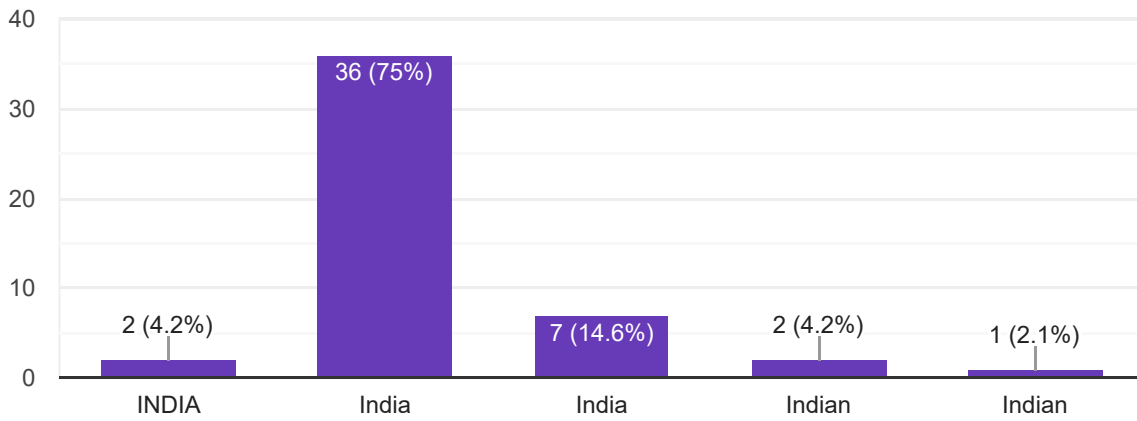
48 responses



Country

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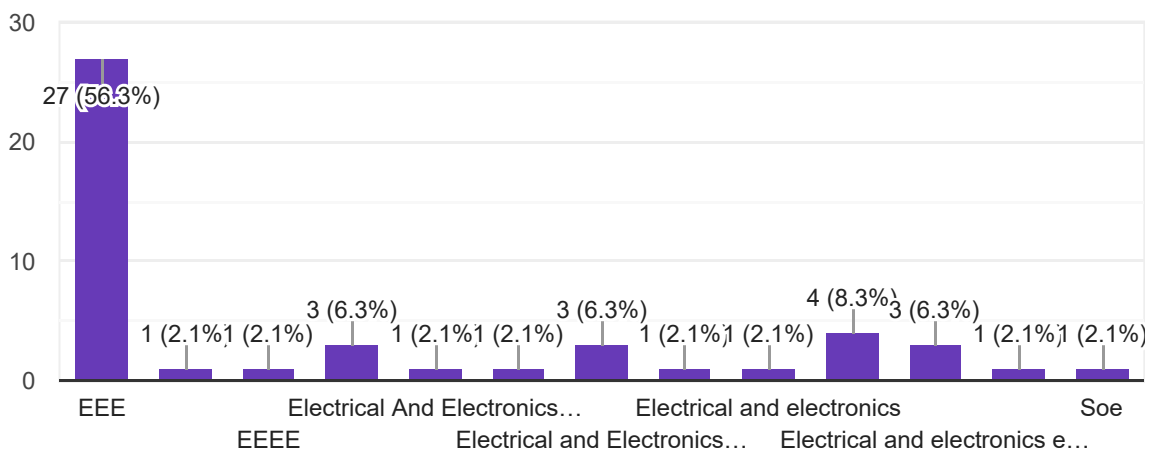
48 responses



Department

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48 responses



Mobile Number

48 responses

9912370009

9880309397

08116875172

+917996389535

7760641308

8088137617

07981248808

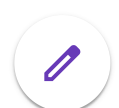
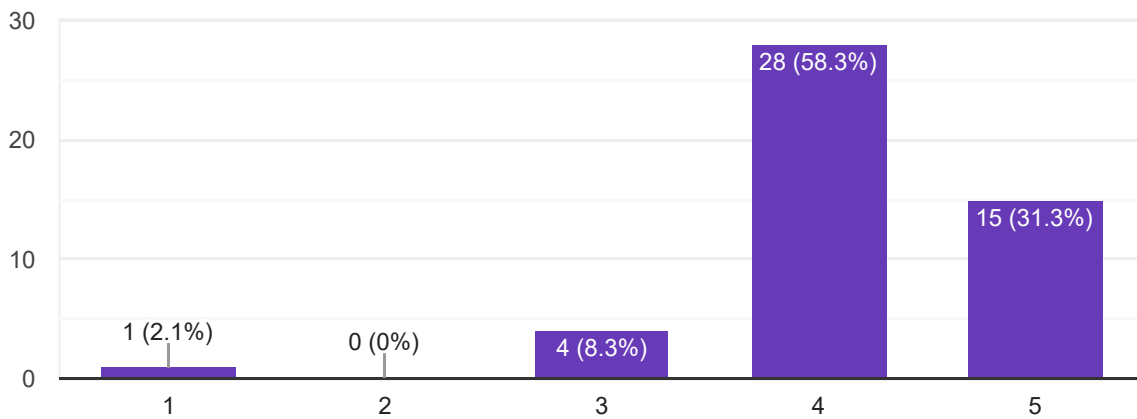
6380633183

+919964218680

Overall how satisfied were you with the session?

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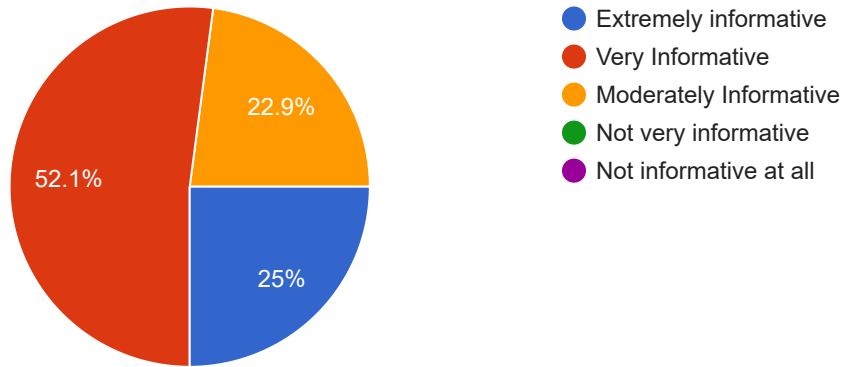
48 responses



How informative did you find the session



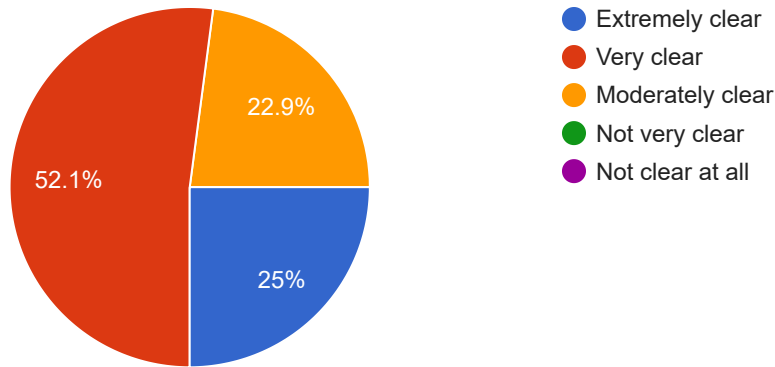
48 responses



How clear were the ideas and concepts presented by the speaker?



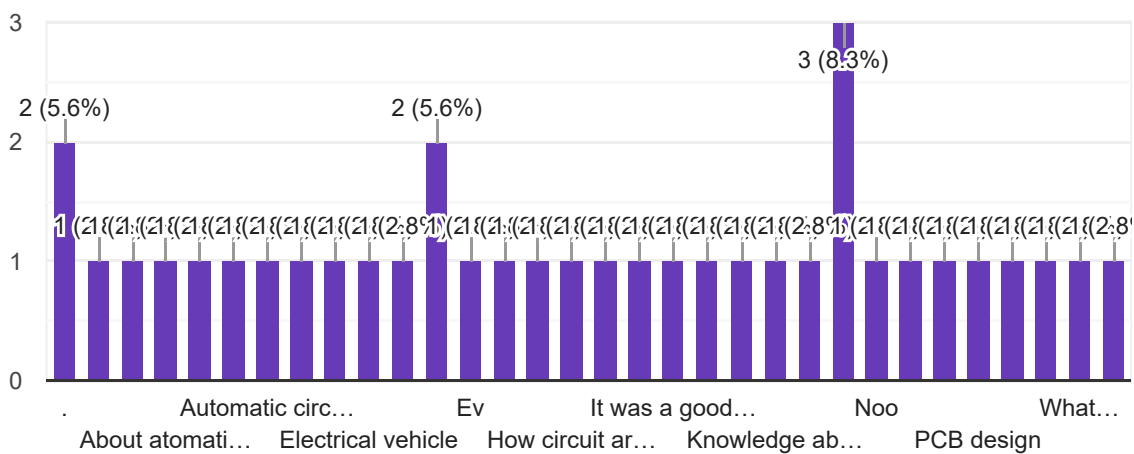
48 responses



What are the takeaway points of the session?



36 responses





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05/05/2022

LETTER OF APPRECIATION

On behalf of Department of Electrical & Electronics Engineering, Presidency University, Bangalore, I would like to express heartfelt appreciation to **Mr. Suraj JR , an alumnus of Presidency University Bangalore, working as Hardware design Engineer in Simple Energy Pvt Ltd, Bengaluru** for acting as a resource person for an Industry Expert Interactive Session on **“Designing of Automotive Grade Electronic Circuits”**, on **04-05-2022 at Presidency University, Bangalore.**

Thank you for volunteering your services, I would like to appreciate you for reaching us, in spite of your busy schedule. Overall, the participants were enriched with your session and gained adequate practical knowledge on the tools required for hardware and software design in the area of Battery technology and Electric Vehicles. Once again, thank you for making the event successful and I expect your continuous support in future too.

Sincerely


Dr V Joshi Manohar
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