



GOVERNMENT COLLEGE OF ENGINEERING
SALEM-636 011



(An Autonomous Institution Affiliated to Anna University, Chennai* NAAC Accredited)*



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The Institution of Engineers (India)

Students' Chapter

in association with

IPCS GLOBAL - SALEM

HANDS ON TRAINING ON PLC PROGRAMMING

08-10 APRIL, 2024

GALLERY HALL / EEE

Patron: **Dr.R.Vijayan, Principal, Government College of Engineering, Salem**

Convener: **Dr. V. Geetha, Professor & Head / EEE, GCE, Salem**

Co-ordinator: **Dr.S.Ganesan, Associate Professor / EEE & Adviser IEI - SC**

Expert: **Er. S. Aravinth, Team Lead, IPCS Global - Salem**

28-3-2024
P
28/3/24

Submitted to The Principal, GCE Salem

Sub: Workshop on "PLC Programming" - reg

It is proposed to organise a workshop on "PLC Programming" from 08-4-2024 to 10-4-2024 for the benefit of third year B.E (EEE) [FT] students. In this connection, your permission is requested kindly to conduct this workshop. In addition, the estimated expenditure to conduct this academic event is around Rs.20000/- and your approval is also requested kindly for the same.


28/3/24
HoD/EEE



**GOVERNMENT COLLEGE OF ENGINEERING
SALEM - 636 011**

(NAAC Accredited * Affiliated to Anna University)

and

The Institution of Engineers (India)



**IPCS
GLOBAL**

Students' Chapter

In association with

IPCS Global, Salem

Cordially invite you for Inaugural function of

HANDS ON TRAINING ON PLC PROGRAMMING

On 08-4-2024 Monday, at 09:30 am, Gallery Hall,

Department of Electrical and Electronics Engineering

Dr.R.VIJAYAN

Principal,

Gove. College of Engineering, Salem

Will preside over the function and deliver the presidential address.

Er.S.ARAVINTH,

Team Lead

IPCS Global, Salem

Will deliver inaugural address

Dr.V.GEETHA, FIE.,

Professor and HoD, Electrical and Electronics Engineering

Government College of Engineering, Salem

will welcome the gathering.

Dr.S.GANESAN, FIE.,

Associate Professor and Adviser, IEI - SC

Government College of Engineering, Salem

will deliver vote of thanks.

All are invited.

Government College of Engineering, Salem
Department of Electrical and Electronics Engineering
The Institution of Engineers (India) – Students' Chapter
In association with
IPCS Global – Salem

HANDS ON TRAINING ON PLC PROGRAMMING

Date	Session	Topic
08-4-2024	Forenoon	Introduction to Automation and PLC Programming Mr. S. Aravinth
	Afternoon	WPL Soft Simulations Mr. S. Aravinth
09-4-2024	Forenoon	Advanced PLC Programming Techniques Mr.S.Aravinth
	Afternoon	Illustrations of Real-World problems and Interactive Exercises Mr.S.Aravinth
10-4-2024	Forenoon	Case Studies and Practical Demonstrations Mr.S.Aravinth
	Afternoon	Case Studies and Practical Demonstrations Mr.S.Aravinth

GOVERNMENT COLLEGE OF ENGINEERING, SALEM
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
THE INSTITUTION OF ENGINEERS (INDIA) - STUDENT CHAPTER & IPSCS GLOBAL - SALEM
HANDS ON TRAINING ON "PLC PROGRAMMING"

PROGRAMME: B.E (EEE) III YEAR
ACADEMIC YEAR: 2023-2024

BATCH: 2021-2025
DURATION: 08-10 APRIL, 2024

PARTICIPANT'S ATTENDANCE (SESSION WISE)

S. No	Registration Number	Student Name	08-4-2024		09-4-2024		10-4-2024	
			FN	AN	FN	AN	FN	AN
1.	61772141001	ASWINRAM K	Aswinram.K	Aswinram.K	Aswinram.K	Aswinram.K	Aswinram.K	Aswinram.K
2.	61772141002	DEEPAK RAJ K	Deepak Raj.K	Deepak Raj.K	Deepak Raj.K	Deepak Raj.K	Deepak Raj.K	Deepak Raj.K
3.	61772141003	DHARMARAJ K	K. D. Raj	K. D. Raj	K. D. Raj	K. D. Raj	K. D. Raj	K. D. Raj
4.	61772141004	DHAYALAN R	—	PROTOSEM	—	—	—	—
5.	61772141005	DHINESHVARAN S	S. Shreshvaran	S. Shreshvaran	S. Shreshvaran	S. Shreshvaran	S. Shreshvaran	S. Shreshvaran
6.	61772141006	DIVYADHARSHINI N R	—	PROTOSEM	—	—	—	—
7.	61772141007	DOMINIC SANJU JAMES R	—	PROTOSEM	—	—	—	—
8.	61772141008	ELAMATHI A	A. Elamathi	A. Elamathi	A. Elamathi	A. Elamathi	A. Elamathi	A. Elamathi
9.	61772141009	GEETHASRI T	Geetha.T	Geetha.T	Geetha.T	Geetha.T	Geetha.T	Geetha.T
10.	61772141010	GOKUL ASHWANTH C	Gokul Ashwanth C	Gokul Ashwanth C	Gokul Ashwanth C	Gokul Ashwanth C	Gokul Ashwanth C	Gokul Ashwanth C
11.	61772141011	GOKUL P	P. Gokul	P. Gokul	P. Gokul	P. Gokul	P. Gokul	P. Gokul
12.	61772141012	GOKULA KRISHNAN R	R. Gokula Krishnan	R. Gokula Krishnan	R. Gokula Krishnan	R. Gokula Krishnan	R. Gokula Krishnan	R. Gokula Krishnan
13.	61772141014	KALYANARAMAN M	M. Kalyanaraman	M. Kalyanaraman	M. Kalyanaraman	M. Kalyanaraman	M. Kalyanaraman	M. Kalyanaraman
14.	61772141015	KAVIYASRI K	Kaviyasri.K	Kaviyasri.K	Kaviyasri.K	Kaviyasri.K	Kaviyasri.K	Kaviyasri.K
15.	61772141018	KIRAN U	—	Dyari.2	—	Dyari.2	—	Dyari.2
16.	61772141019	KIRUTHIGA M	M. Kiruthiga	M. Kiruthiga	M. Kiruthiga	M. Kiruthiga	M. Kiruthiga	M. Kiruthiga

PROGRAMME: B.E (EEE) III YEAR
ACADEMIC YEAR: 2023-2024

BATCH: 2021-2025
DURATION: 08-10 APRIL, 2024

S. No	Registration Number	Student Name	08-4-2024		09-4-2024		10-4-2024	
			FN	AN	FN	AN	FN	AN
17.	61772141020	KIRUTHIKA T N	←	PROTOSEM	←	←	←	
18.	61772141021	KISHORE S	←	PROTOSEM	←	←	←	
19.	61772141022	MALAVIKA R	Malavika R.	malavika R.	R. malavika	malavika R	malavika R	
20.	61772141023	MEENACHI SUNDARAN S	S. meenachisundaran	S. meenachisundaran	S. meenachisundaran	S. meenachisundaran	S. meenachisundaran	
21.	61772141025	MUGESH S	G. Mugesh	G. Mugesh	G. Mugesh	G. Mugesh	G. Mugesh	
22.	61772141026	NARESH P	P. Nish	P. Nish	P. Nish	P. Nish	P. Nish	
23.	61772141027	NARMATHA V	Narmatha. V	Narmatha. V	Narmatha. V	Narmatha. V	Narmatha. V	
24.	61772141028	PADMAPRIYA M	M. Padmapriya	M. Padmapriya	M. Padmapriya	M. Padmapriya	M. Padmapriya	
25.	61772141030	POOJA G	G. Pooja	G. Pooja	G. Pooja	G. Pooja	G. Pooja	
26.	61772141031	PRANITHA A	A. Pranitha	A. Pranitha	A. Pranitha	A. Pranitha	A. Pranitha	
27.	61772141032	PREETHI S	S. Preethi	S. Preethi	S. Preethi	S. Preethi	S. Preethi	
28.	61772141033	RAJESHKANNA A V	A. V. Rajeshkanna	A. V. Rajeshkanna	A. V. Rajeshkanna	A. V. Rajeshkanna	A. V. Rajeshkanna	
29.	61772141034	RAMYA R	R. Ramya	R. Ramya	R. Ramya	R. Ramya	R. Ramya	
30.	61772141035	REKHA K	←	PROTOSEM	←	←	←	
31.	61772141036	RIHANA BEGUM M	Rihana Begum. M	Rihana Begum. M	Rihana Begum. M	Rihana Begum. M	Rihana Begum. M	
32.	61772141037	RITHIGA SHREE M	M. Rithiga shree	M. Rithiga shree	M. Rithiga shree	M. Rithiga shree	M. Rithiga shree	

GOVERNMENT COLLEGE OF ENGINEERING, SALEM
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
THE INSTITUTION OF ENGINEERS (INDIA) - STUDENT CHAPTER & IPCS GLOBAL - SALEM
HANDS ON TRAINING ON "PLC PROGRAMMING"

PROGRAMME: B.E (EEE) III YEAR
ACADEMIC YEAR: 2023-2024

BATCH: 2021-2025
DURATION: 08-10 APRIL, 2024

S. No	Registration Number	Student Name	08-4-2024		09-4-2024		10-4-2024	
			FN	AN	FN	AN	FN	AN
33.	61772141039	SANTHOSH L		Proposer				
34.	61772141042	SIVA A	A.Siva	A.Siva	A.Siva	A.Siva	A.Siva	A.Siva
35.	61772141044	SRIKANTH S V	Srikant	Srikant	Srikant	Srikant	Srikant	Srikant
36.	61772141045	SUBHIKSHA R	R. Subhiksha	R. Subhiksha	R. Subhiksha	R. Subhiksha	R. Subhiksha	R. Subhiksha
37.	61772141047	SUJIM	M. Sujit	M. Sujit	M. Sujit	M. Sujit	M. Sujit	M. Sujit
38.	61772141048	SWETHA J		Proposer				
39.	61772141049	THRISHA M	Thirisha	Thirisha	Thirisha	Thirisha	Thirisha	Thirisha
40.	61772141050	UDHAYASRIM	M. Udhayini	M. Udhayini	M. Udhayini	M. Udhayini	M. Udhayini	M. Udhayini
41.	61772141051	VIGNESH S	Shrith	Shrith	Shrith	Shrith	Shrith	Shrith
42.	61772141052	VISHNUVARTHAN J		Proposer				
43.	61772141053	LIJANTHUNG M JAMI	R.	R	AB	R	R	R
44.	61772141054	METEZEVOL KERA	Mesera	Mesera	Mesera	Mesera	Mesera	Mesera
45.	61772141055	YANGLIKHUM ANAR	Yang Likhum	Yang Likhum	Yang Likhum	Yang Likhum	Yang Likhum	Yang Likhum
46.	61772141056	YESANBENI MURRY	Shant	Shant	Shant	Shant	Shant	Shant
47.	61772241101	NANDHINI E	E. Nandhini	E. Nandhini	E. Nandhini	E. Nandhini	E. Nandhini	E. Nandhini
48.	61772241102	NAVEENKUMAR S	S. Naveen	S. Naveen	S. Naveen	S. Naveen	S. Naveen	S. Naveen

GOVERNMENT COLLEGE OF ENGINEERING, SALEM
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
THE INSTITUTION OF ENGINEERS (INDIA) - STUDENT CHAPTER & IPCS GLOBAL - SALEM
HANDS ON TRAINING ON "PLC PROGRAMMING"

PROGRAMME: B.E (EEE) III YEAR
 ACADEMIC YEAR: 2023-2024

BATCH: 2021-2025
 DURATION: 08-10 APRIL, 2024

S. No	Registration Number	Student Name	08-4-2024		09-4-2024		10-4-2024	
			FN	AN	FN	AN	FN	AN
49.	61772241I04	SUREKSHA J	AB	AB	S. Gopal	S. Gopal	S. Gopal	S. Gopal
50.	61772241T301	DHANUSH SELVAM S	←	←	PROTD SEM	←	←	←
51.	61772241T302	MALINI S	←	←	PROTD SEM	←	←	←
52.	61772241T303	MYTHILY T	Mythily T	Mythily T	AB	AB	Mythily T	Mythily T
53.	61772241T304	NAVEENA M	M. Naveena	M. Naveena	M. Naveena	M. Naveena	M. Naveena	M. Naveena
54.	61772241T305	PRAISALRAJ M	←	←	PROTD SEM	←	←	←
55.	61772241T306	SOWMIYA G	←	←	LONG	←	←	←
56.	61772241T307	SRI JAYAPRAKASH M	←	←	PROTD SEM	←	←	←
57.	61772241T308	SWATHI S	S. Swathi	S. Swathi	S. Swathi	S. Swathi	S. Swathi	S. Swathi
58.	61772341T501	DHARSHINI A	Chandray A	Chandray A	Chandray A	Chandray A	Chandray A	Chandray A
59.	61772341T502	DIVYARAGHAVIR	P. Divyarth	P. Divyarth	P. Divyarth	P. Divyarth	P. Divyarth	P. Divyarth
60.	61772341T503	HEMAVARSHINI P G	P.G. Hembar	P.G. Hembar	P.G. Hembar	P.G. Hembar	P.G. Hembar	P.G. Hembar
61.	61772341T504	KARTHICK P	←	←	PROTD SEM	←	←	←
62.	61772341T505	LAKSHMI BAIR	P. Lakshmi	P. Lakshmi	P. Lakshmi	P. Lakshmi	P. Lakshmi	P. Lakshmi
63.	61772341T506	MOUNITHA M	M. Mounitha	M. Mounitha	M. Mounitha	M. Mounitha	M. Mounitha	M. Mounitha
64.	61772341T507	VINOTH KUMAR K	←	←	PROTD SEM	←	←	←

A REPORT ON HANDS ON TRAINING ON PLC PROGRAMMING

Three days Hands on Training on "Programmable Logic Controller (PLC) Programming" was organised by The Institution of Engineers (India) Student Chapter in association with IPCS Global – Salem during 08-10 April, 2024. The workshop aimed to provide the participants with practical knowledge and skills in PLC programming, a crucial aspect of industrial automation. The students of third year B.E (EEE) attended this workshop and explored the real-world applications of PLCs in Industrial Automation.

DAY – 1 (08-4-2024) - SESSION – I (FORENOON)

The first session started with introduction to IPCS Global by the Team Lead and the Assistant Manager/IPCS Global, Salem. The workshop commenced with an overview of PLCs, their architecture, and their role in industrial automation. Experienced instructor from IPCS Global delivered lectures on various topics, including PLC hardware components, programming languages (such as ladder logic), input/output modules, and communication protocols.

DAY – 1 (08-4-2024) - SESSION – II (AFTERNOON)

In the afternoon session, participants had the opportunity to work with industry-standard PLCs and software platforms (WPLsoft 2.5). Under the guidance of expert trainer, participants learned to create and troubleshoot PLC programs for different applications, such as motor control, conveyor systems, and sequential processes.

DAY – 2 (09-4-2024)- SESSION – I (FORENOON)

In this session, participants got deeper into advanced PLC programming techniques. The sessions covered topics such as timers, counters, arithmetic instructions, and data manipulation. Participants learned to use these advanced features to create more complex PLC programs for tasks such as process control, motion control, and data logging.

DAY – 2 (09-4-2024)- SESSION – II (AFTERNOON)

Practical examples and case studies were presented to illustrate the application of these techniques in real-world scenarios. Participants engaged in interactive exercises for their understanding and enhance their programming skills.

Few of the participants visited the IPCS Global, Salem where they had got guidance with the PLC controller training kit and get information about internship and opportunities about these PLC programming in the industries and they were shared the information about the course and internship were shared with their classmates.

DAY – 3 (10-4-2024)- SESSION – I (FORENOON)

The final day of the workshop focused on exploring industrial applications of PLC programming through case studies and practical demonstrations. Participants had the opportunity to analyse real-world PLC programs and discuss best practices for designing, implementing, and maintaining PLC-based automation solutions.

DAY – 3 (10-4-2024)- SESSION – II (AFTERNOON)

The feedback session was conducted for the participants about the workshop and the Expert clarified the queries and shared their experiences and insights into implementing PLC systems in different industrial settings.

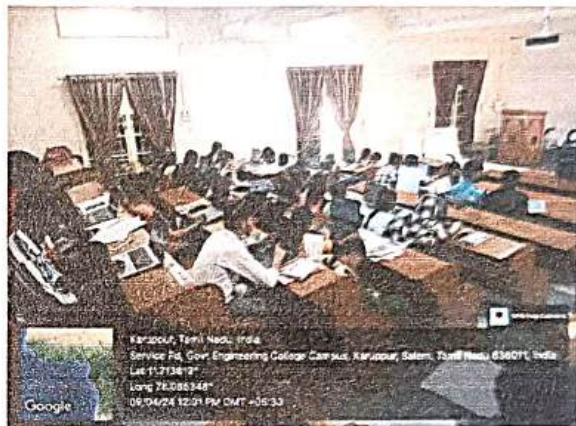
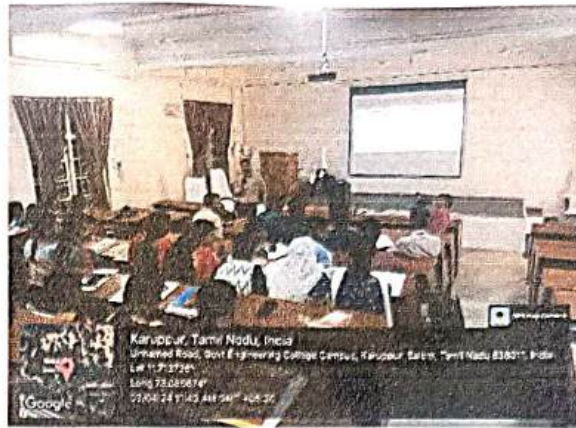
OUTCOMES

The Three-day Hands on Training on PLC programming provided participants with a comprehensive understanding of PLC systems and equipped them with practical skills to design, program, and troubleshoot PLC-based automation systems. Through a combination of theoretical lectures, hands-on exercises, and real-world case studies, participants gained valuable insights into the role of PLCs in industrial automation and emerged as competent PLC programmers.

ACKNOWLEDGEMENTS

The students are highly thankful to

1. Dr.R.Vijayan, Principal, GCE - Salem, for granting permission to conduct this event.
2. Dr.V.Geetha, Professor & HoD / EEE and Convener of this academic event.
3. Dr.S.Ganesan, Associate Professor/EEE and Co-ordinator of this event.
4. Er.S.Aravinth, Team Lead/ IPCS Global, Salem and Expert to trained the participants in PLC programming.





Feedback for PLC Workshop

48 responses

Publish analytics



kalyanaraman129@gmail.com


murryyesanbeni@gmail.com

kerametezevol@gmail.com

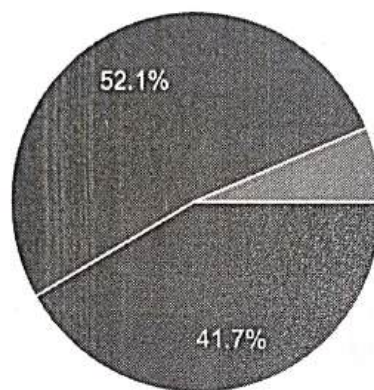
yanglianar0324@gmail.com

Untitled section

1. How would you rate the overall organization and structure of the PLC workshop?


 Copy

48 responses

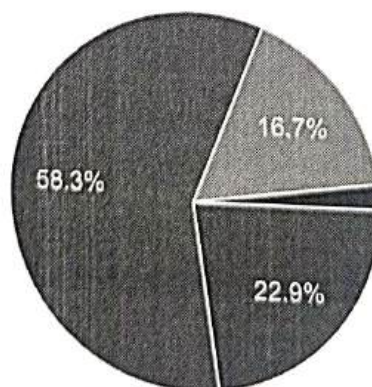


● 5
● 4
● 3
● 2
● 1

2. Did the workshop effectively cover the intended learning objectives and goals?

 Copy

48 responses

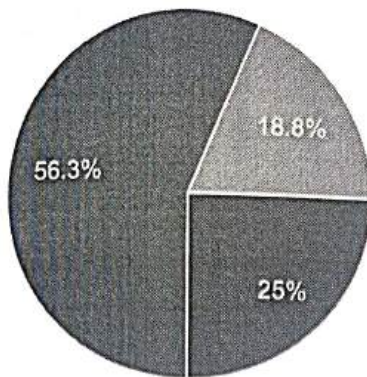


● Strongly Agree
● Agree
● Neutral
● Disagree
● Strongly Disagree

3. Were the materials provided during the workshop helpful in facilitating your learning?

48 responses

☐ Copy

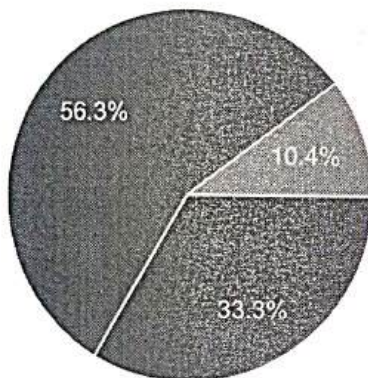


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

4. Did the facilitators effectively engage participants and encourage collaboration and discussion?

48 responses

☐ Copy

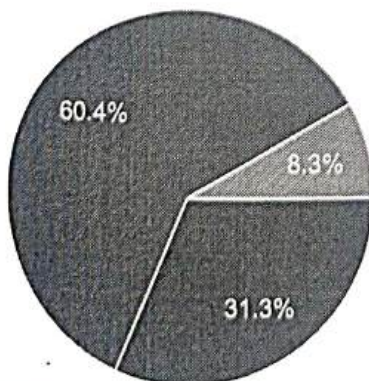


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

5. How would you rate the overall effectiveness of the workshop in enhancing your understanding of PLC concepts and strategies?

48 responses

☐ Copy

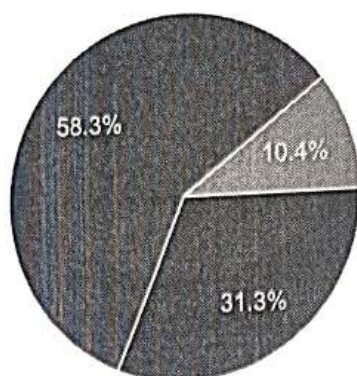


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

6. Did the workshop provide sufficient opportunities for networking and exchanging ideas with fellow participants?

Copy

48 responses

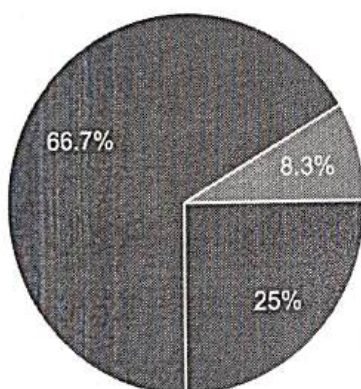


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

7. Were the activities and exercises conducted during the workshop conducive to your learning experience?

Copy

48 responses

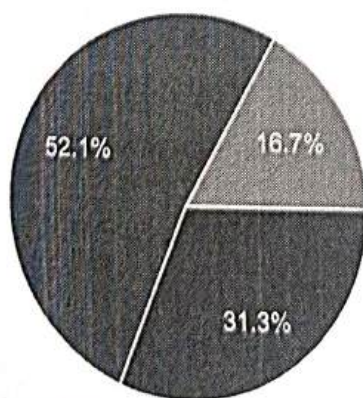


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

8. Was information presented easy to understand?


Copy

48 responses

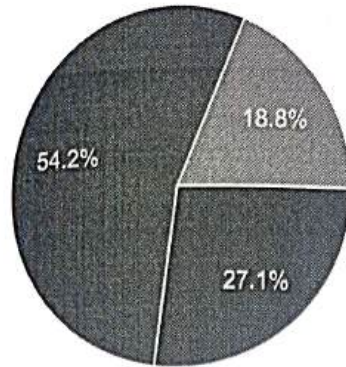


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

9. How was the time management of the workshop?

 Copy

48 responses

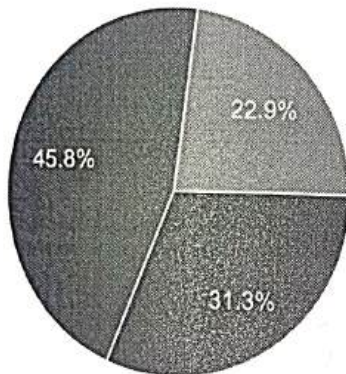


-  Strongly Agree
-  Agree
-  Neutral
-  Disagree
-  Strongly Disagree

10. Were the topics of the workshop clearly defined and planned?


 Copy

48 responses

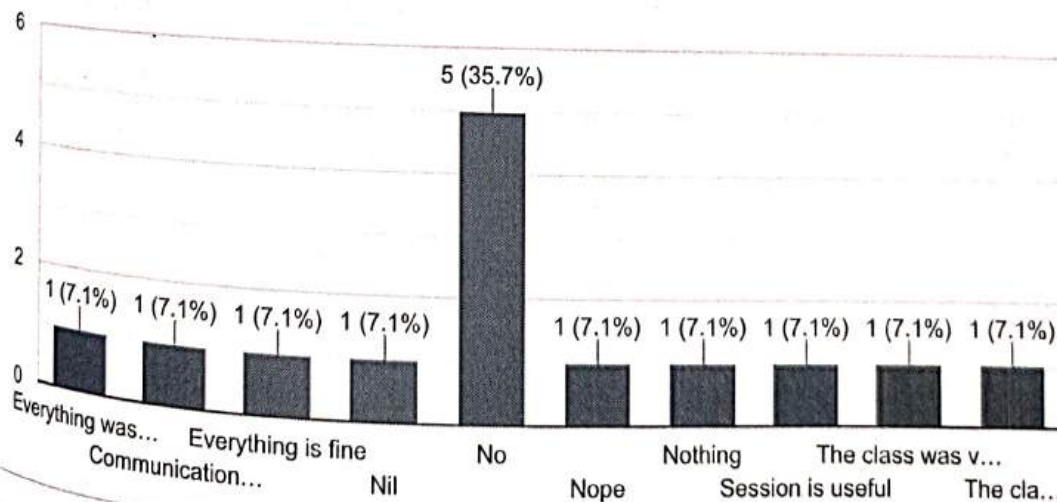


-  Strongly Agree
-  Agree
-  Neutral
-  Disagree
-  Strongly Disagree

Any Suggestion

 Copy

14 responses



This content is neither created nor endorsed by Google. [Report Abuse](#) - [Terms of Service](#) - [Privacy Policy](#)

Google Forms