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**A Webinar Report**

on

**"Programmable Logic Controller (PLC) for Industrial Automation"**

**Jointly Organised by**

**Department of Electrical & Electronics Engineering**

**and**

**Department of Mechanical Engineering**

**Date: 11.03.2022**

**Organized in association with: ISTE Student Chapter**

**Submitted by:** Dr Pratap Ranjan Mohanty, Associate Professor., Dept. of EEE  
Dr. Subodh Kumar, Assistant Professor, Dept. of ME

**Attendance: 512 participants including students & faculty from MITS Madanapalle**

The programme is started at 1:00 PM with a welcome address to all the audience by the Dr. A V Pavan Kumar, H.O.D, EEE, MITS, Madanapalle. Then after, Dr. M Lakshmana Rao Professor & Head, Department of ME, MITS, Madanapalle addresses the audience by giving the brief introduction about the objective of conducting such an event. Also, he added the importance of the programming logic controller which widely used technologies in EEE as well Mechanical department. The resource person **Er. Rajesh Kumar, Manager in the department of Instrumentation & Automation at Neelachal Ispat Nigam Ltd. Jajpur, Odisha, INDIA** was introduced by Dr. Pratap Ranjan Mohanty, Assoc. Prof., Dept. of EEE.

The resource person started the session by extending his hearty thanks to the participants, organising members, HoDs, Principal and Management of MITS Madanapalle for giving him opportunity to share his knowledge and experience in automation industries specifically about the programmable logic controller (PLC).

The eminent resource person highlighted the significance of PLC with number of examples. Also, he focused on the requirement of PLC in manufacturing and service based industry. Besides, the impact of industrial automation on the performance in terms of development, design, quality, reduction in manual damage, safety level, human error and accuracy are being discussed during the session. Also, the importance of logic and its control during industrial operation are focused. The basic technical requirement for the power and control circuit is also briefed in the presentation. Besides, the automation by using relay and contactor logic system is highlighted. The design simplicity in term of reduction in wiring by PLC is also discussed with example. The PLC programming languages and their implementation is also discussed during the presentation. Moreover, the presentation includes PLC I/O types, field element in an industry and PLC operation.

The session was concluded followed by a vote of thanks, given by Dr. Subodh Kumar, Assistant professor, Department of Mechanical Engineering, MITS, Madanapalle

**Feedback:** The participants were moreover passionate to know the opportunities and scopes ahead in application, research and internship aspects of Programming logic controller.



# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (UGC-AUTONOMOUS)

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## Photos:

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
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**Webinar on**  
"Programmable Logic Controller (PLC)  
for Industrial Automation"  
Date: 11.03.2022  
Time: 1 PM

Organizer: Department of Electrical & Electronics Engineering and  
Department of Mechanical Engineering in  
Association with ISTE Student Chapter

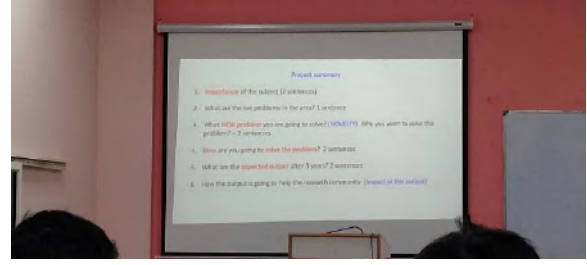
**Resource Person**  
**E. Rajesh Kumar,**  
(18 years of experience in Automation)  
Manager in the department of  
Instrumentation & Automation at  
Neelachal Ispat Nigam Ltd, Jajpur,  
Odisha, INDIA

**Coordinators**  
**Dr. Pratap Ranjan Mohanty,**  
Associate Professor,  
Dept. of EEE, MITS, Madanapalle  
**Dr. Subodh Kumar,**  
Assistant Professor,  
Dept. of ME, MITS, Madanapalle

**Conveners**  
**Dr. A.V Pavan Kumar,**  
Associate Professor & Head,  
EEE, MITS, Madanapalle  
**Dr. M. Lakshmana Rao,**  
Professor & Head,  
ME, MITS, Madanapalle

**Dr. N. Vijayabhaskar Chowdary**  
Secretary & Correspondent  
**Mrs. N. Keerthi**  
Executive Director  
**Dr. C Yuvaraj**  
Principal, MITS, Madanapalle

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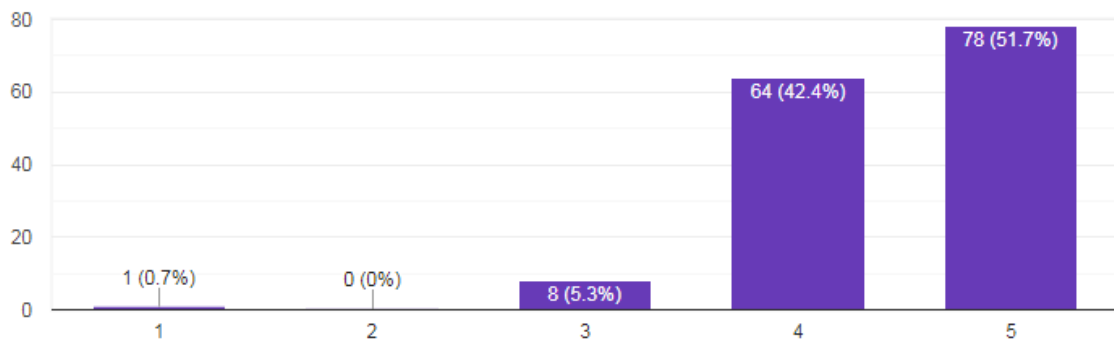




**Feedback Analysis**

1. The interactive session was scheduled at a suitable time

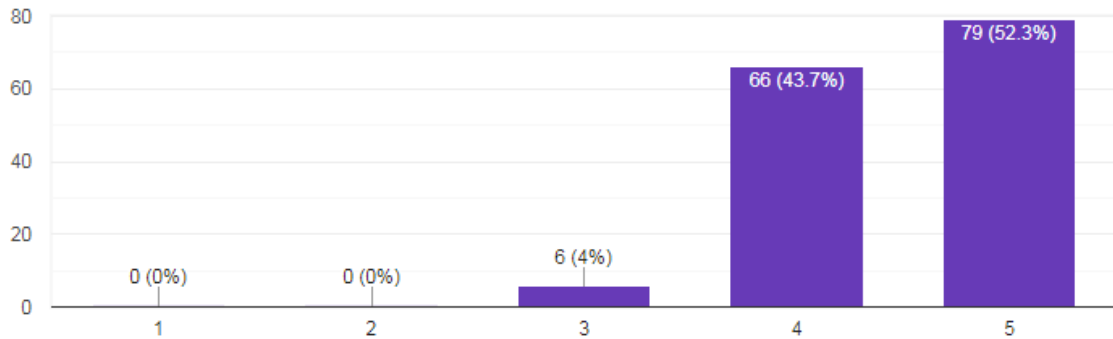
151 responses





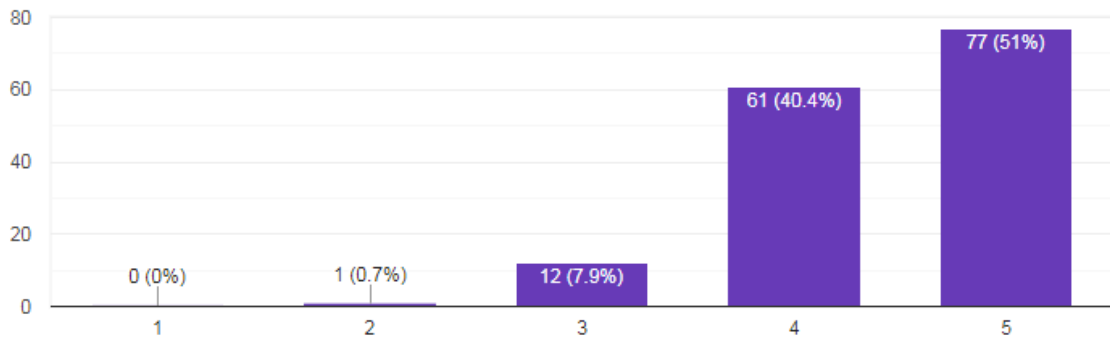
2. The interaction was useful and resource person explanation.

151 responses



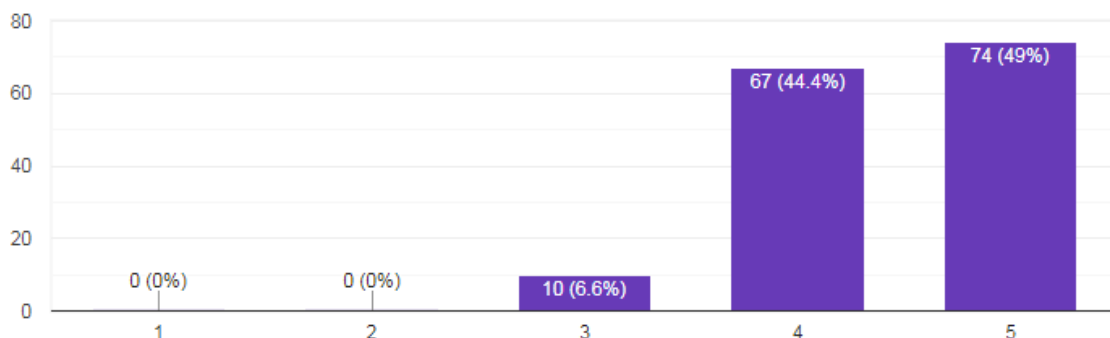
3. The information in the interaction was presented in a clear and organized manner.

151 responses



4. The presenter responded to questions an informative, appropriate and satisfactory manner.

151 responses





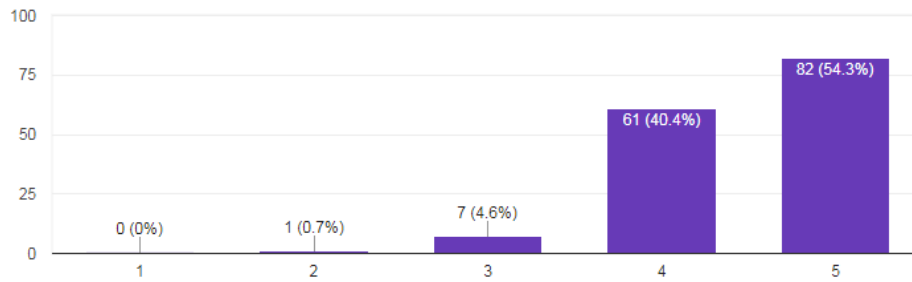
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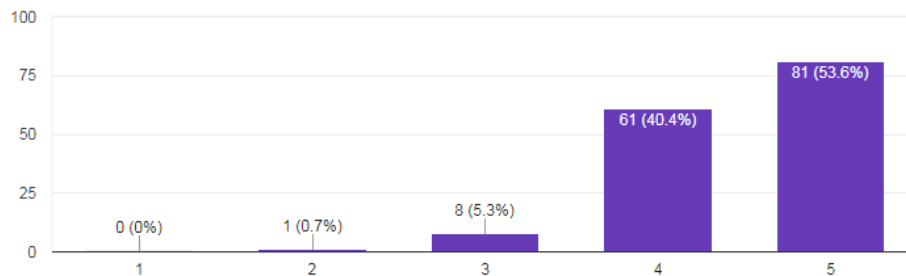
5. your impression of facilities provided by the institute for interaction.

151 responses



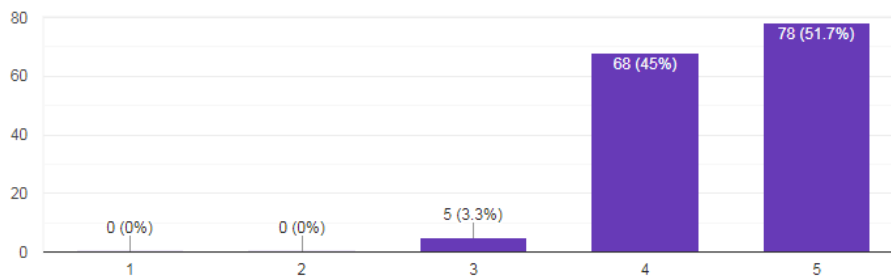
6. Overall, the session was informative and valuable.

151 responses



7. In what ways could this interaction have been improved to better suit your needs?

151 responses



Signature of the Coordinator

Signature of the Coordinator

Signature of HoD, EEE

Signature of HoD, ME