

# POWER LABS ECOSYSTEM



## Happy Customer

**Region:** Karachi, Pakistan

**University:** Ziauddin University



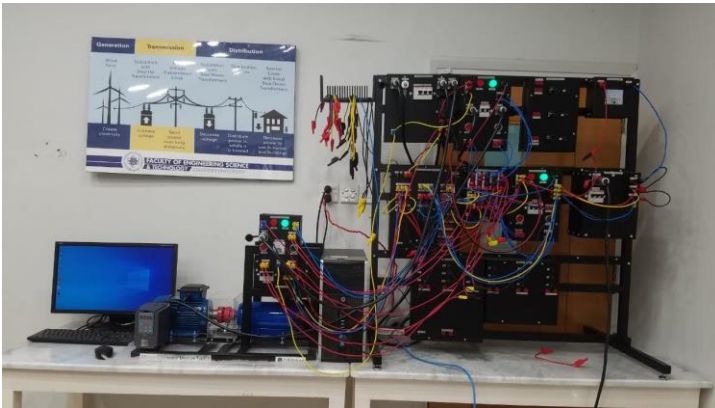
**ZIAUDDIN  
UNIVERSITY**

**Department:** Faculty of Engineering Science and Technology

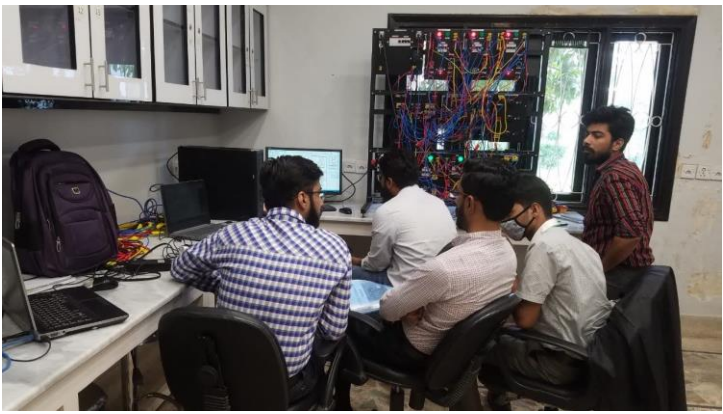
**Date:** Jul 2020

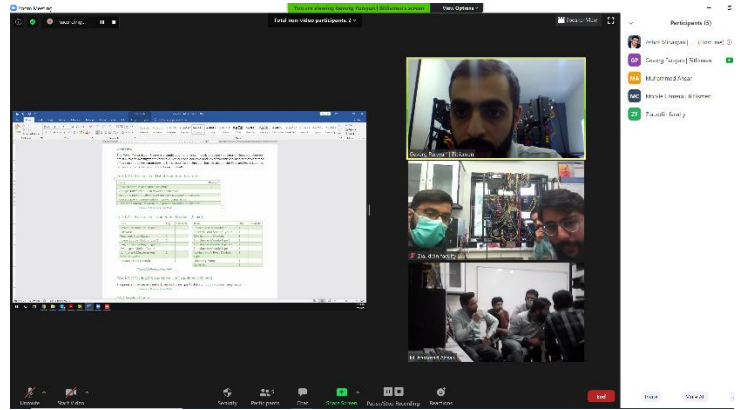
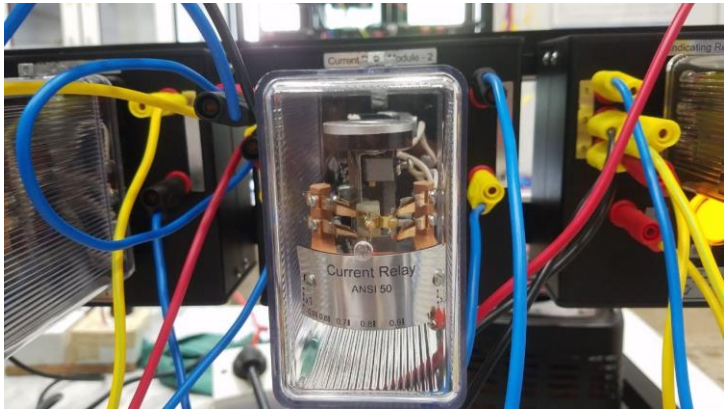
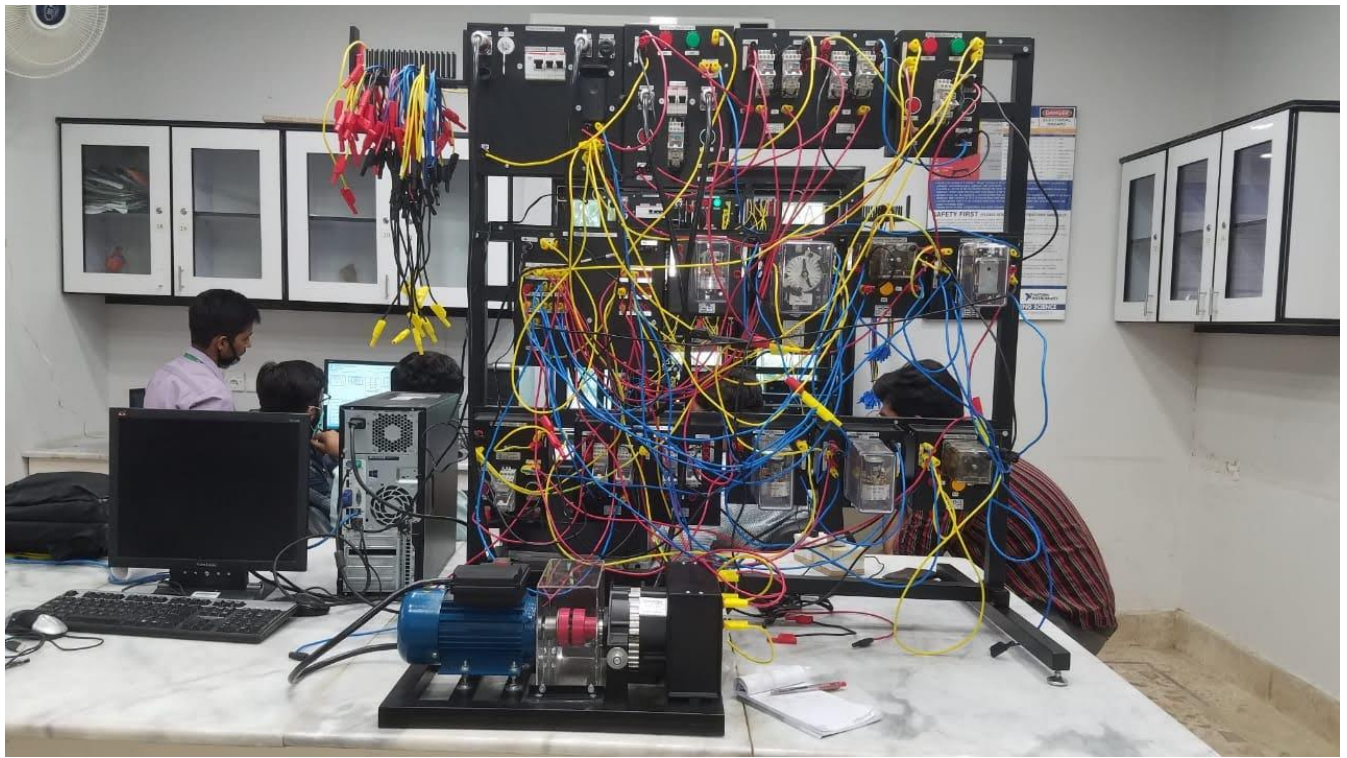
**Product:** Traditional Power Generation, Power Transmission, Power Distribution, Relay Protection trainers of Power Labs Ecosystem.











Total non-video participants: 1

The Trainer is a combination of different types of electromechanical protection relay. This trainer allows to concentrate on different protection circuits that are used in different parts of real power network. It allows to investigate the relays as separate equipments, as well as their use in advanced protection circuits.

Test NA.1: Existence of List of Experiments (2 min)

Item	Passed?	Item	Passed?
Indicating Relay		Overcurrent and Current Cutoff Protection	
Auxiliary Relay		Overcurrent and Current Cutoff Protection (with Generator)	
Time Relay		Protection (with Generator)	
Under-voltage Relay		Thermal Relay Protection	
Over-voltage Relay			
Current Relay			
Reverse Power Protection (simulated)			
Under-voltage Protection			
Under-voltage Protection (with Generator)			
Over-voltage Protection			
Over-voltage Protection (with Generator)			
Under and Over-voltage Protection			
Under and Over-voltage Protection (with Generator)			
Overcurrent Protection			
Overcurrent Protection (with Generator)			
Current Cutoff Protection			
Current Cutoff Protection (with Generator)			

Test NA.1 Passed (Yes/No):

Test NA.2: Existence of Trainer and Modules (5 min)

Item	City	Passed?	Item	City	Passed?
Electromechanical Relay			Ziauddin Relay Module		



Zoom Meeting

Recording...

Total non-video participants: 1

**ELECTROMECHANICAL RELAY PROTECTION TRAINER**  
LAB 13 - Overcurrent and Current Cutoff Protection

DC Power Supply | Generator

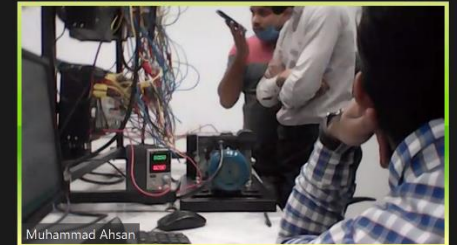
Switchgear Module Type 1 | Switchgear Module Type 2 | Current Relay Module - 1 | Time Relay Module | Indicating Relay Module - 1 | Auxiliary Relay Module

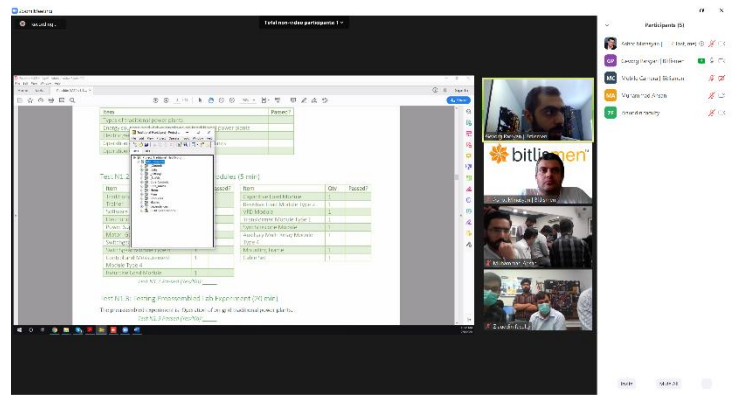
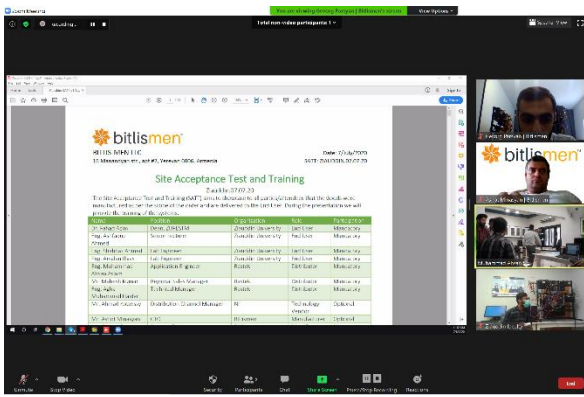
Voltage (V), Current (A)

Generator Voltage: 0.053  
Generator Excitation Voltage: 0.053  
Generator Current: 0.004  
Generator Excitation Current: 0.004

Current Relay Module - 2 | Indicating Relay Module - 2 | Resistive Load Module Type 1

bitlismen





## Customer Feedback

*It was a well-defined and informative session for all of the trainers the way Gevorg Parsyan presented and defined the things were clear and overall follow-up and consecutive support from Mr. Ashot Minasyan made much confusion clear on the spot.*

*Ashfaqe Ahmed Baloch, Senior Lecturer*

*PLE trainers were one of its kind which will help students to learn a lot as well as they can relate the theoretical knowledge with practical sessions. Thank you very much for your effort to organize the training and assistance provided during the session.*

*Engr. Shahbaz Ahmed, Lab Engineer*

*I found this training workshop to be a very enlightening experience in many ways. The PLE trainers were very well-paced and the attitude of the instructors was very positive and enabling. It was very nice that they accommodate us during the workshop and solved the queries related to it.*

*Engr. Arsalan Ilyas, Lab Engineer*