

1. **Name of the Activity:** An Expert Lecture on Role of cable impedance in functioning of controls” on 29/11/2022.

Name of department/ Section/ cell conducting the activity	Department of Electrical Engineering
In coordination with (if any)	----
Date of conduct	29 th November 2022
Activity Coordinator	Dr Shakuntla Assistant Professor, Department of Electrical Engg. JCBUST, YMCA, Faridabad
Amount Spent	10,000/-
Funding/ grant from (University/ Industry/ UGC/ AICTE/ DST/ TEQIP/ Outside Society/ agency/others (mention)	Department fund
Target audience:	UG students and Faculty
No. of beneficiaries	35
Outside guests/ Details of Experts	Dr. (Er. Prof) Raj Kumar Singh, a YMCIAN mobian of 1983 EMPA batch
Brief Description of the event	This expert lecture covered the detailed study of effect of resistance and capacitance when control cables are long. In long run cables, resistance and capacitance of cable plays a vital role in functioning of controls. Cable resistance drops the voltage, resulting in lower voltage across the contactor / drive etc than expected. When voltage goes below threshold level contactor/ drive stops functioning. Contactor will not get ON. Cable capacitance also plays equally important and vital role in long run cables. This also provides solutions for the issues arise. A research paper on the above mentioned topic was published by the expert in Electrical India Since this research paper is very simple, no algorithm, no integration or differentiation, no Laplace transformation, no Fourier

	series etc. It has basics and fundamentals with practical approach. This paper provides a solution of the various issues which arises in the commissioning of controls in field.
Attach Brochure of the event	
attach two/three good quality photographs	 
Attach certificate of the event	
Any other information	