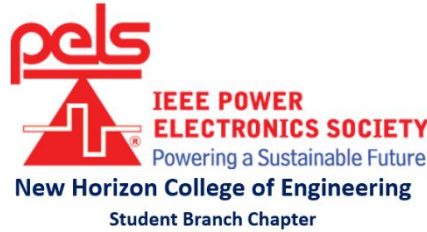




Department of Electrical and Electronics Engineering

IEEE Power Electronics Society Student Branch Chapter

Geo-Code: SBC66131



Name of the Event	Guest lecture on “Phasor estimation algorithms and applications in protective relaying”
Date	11 th April 2023, 10.00 AM- 12.00 PM (IST)
Beneficiary	90 Students and 4 faculty members are benefitted
Write up	<p>The Department of Electrical and Electronics Engineering, New Horizon College of Engineering Organized Online Guest lecture on ‘Phasor estimation algorithms and applications in protective relaying’ in association with IEEE PELS Student Branch chapter. The session was handled by Mr. Mariselvan Arumugam, PMRF, EEE Dept. National Institute of Technology, Tiruchirappalli. The resource person clearly explained about the Faults and maneuvers in the system may trigger undesirable voltage and current waveforms of non-fundamental frequency that may affect the performance of protection and control systems. In this context, the proposed method aims to improve the characteristic of filtering out undesirable frequency components of signals. Comparisons are made in relation to time response and frequency response for the proposed method and four classical phasor estimation methods. A distance relay was implemented by using the MODELS language of the ATP (Alternative Transients Program) in order to evaluate the relay performance. As expected, for the proposed method, the relay exhibited good performance in terms of accuracy. In terms of relay speed, the method showed a performance comparable to that of the other methods. Theoretically, the phasor estimation proposed method here has a better frequency response than those of the four used methods. Besides, it has a response time fully compatible with these methods. Another advantage of the proposed method is that it can be easily programmed, allowing users to change design parameters according to their needs. The eminent expert from the NIT delivered the lecture and his talk has been very well received by the 94 participants. 90 Students and 4 faculty members are benefitted.</p>



Department of Electrical and Electronics Engineering



Presents

GUEST LECTURE

On

**PHASOR ESTIMATION ALGORITHMS AND
APPLICATIONS IN PROTECTIVE RELAYING**



Mariselvan Arumuga

Research scholar (PMRF),

Department of EEE National Institute
of Technology, Tiruchirappali

Photographs



11th April 2023 , Tuesday



IST, 10:30 AM - 12:30 PM



Google Meet Code : awy-xefe-poe



For any queries contact :
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Convenor

Dr. S. Sujitha

Professor & HOD - Dept. of EEE, NHCE

Faculty Coordinator

Ms. Kavitha Chennareddy

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