

**INDUSTRY APPLICATIONS CHAPTER  
THE INSTITUTE OF ELECTRICAL AND  
ELECTRONICS ENGINEERS INC  
KOLKATA SECTION**



**IEEE Lecture**

(with the Department of Electrical Engineering, IEST Shibpur)

<b>Topic</b>	<b>Small Electric Drives in Diesel Electric Locomotives</b>
<b>Speaker</b>	<b>Dr. Suvarun Dalapati, Assistant Professor, Electrical Engineering Department, IEST Shibpur</b>
<b>Date &amp; Time</b>	<b>23<sup>rd</sup> October, 2019 (Wednesday), 4:00 PM - 5:00 PM</b>
<b>Venue</b>	<b>Seminar Room, Department of Electrical Engineering, Indian Institute of Engineering Science and Technology Shibpur, Howrah – 711103</b>
<b>Contact</b>	<b>Debjani Ganguly (ganguly.debjani@gmail.com &amp; Phone (Office): 26684561/62, ext. 620)</b>

**About the speaker:**

Suvarun Dalapati received the B.E. degree (Electrical Engineering) from Bengal Engineering College (D.U.), Shibpur (presently Indian Institute of Engineering Science and Technology, Shibpur) in 2002, and the M. Tech. and Ph.D. degrees (specializing in Power Electronics and Machine Drives) from Indian Institute of Technology, Kharagpur, in 2004 and 2008 respectively.

In 2007, he joined M/s Stesalit Limited, where he served for nearly six years, initially as Sr. Project Engineer (R & D) and then as Assistant General Manager (R & D) – developing embedded-controller based Power Electronic Converters / Chargers etc. for Indian Railways and the Department of Atomic Energy, Govt. of India. In June-2013, he joined the Department of Electrical Engineering, Bengal Engineering and Science University, Shibpur (presently, IEST Shibpur), as Assistant Professor.

His research interest includes the fields of Power Electronics, Machine Drives, applications of embedded electronics to various electrical engineering problems etc. Dr. Dalapati is a Life Member of the Institution of Engineers (India) and the Institution of Electronics and Telecommunication Engineers (India). He is a Life Associate of the Indian Society of Lighting Engineers. He is also a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE-USA) and is an active worker for the Industry Applications Chapter of the IEEE Kolkata Section.

**Abstract of the talk:**

Small electric motors with built-in inverters are used in diesel-electric locomotives for various applications. This talk describes such applications and then proceeds to discuss the specifications for one such application. This is followed by a discussion on the design of a motor-inverter-system for the above application.

Duration: 1 hour (approx.)