The Institution of Engineers (India)

“The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform from which to share professional interest. IEI has membership strength of over 0.8 million. Established in 1920, with its headquarters at B Gokhale Road, Kolkata - 700020, IEI has served the engineering fraternity for over nine decades. In this period of time, it has been inextricably linked with the history of modern-day engineering. In 1993, IEI was incorporated by Royal Charter and remains the only professional body in India to be accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. IEI functions among professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating from 124 Centres located across the country. IEI provides grant-in-aid to its members to conduct research and development on engineering subjects. IEI conducts Section A & B Examinations in different Engineering disciplines, the successful completion of which is recognized as equivalent to Degree in appropriate field of Engineering of recognized Universities of India by the Ministry of Human Resources Development, Govt. of India. Every year as many as 80000 candidates appear for these exams.

Objective of the Workshop

The objective of the Workshop is to provide an exposure to Industry 4.0 concepts which revolutionize the modern manufacturing practices. This concept incorporates interdisciplinary knowledge in artificial intelligence, machine learning, sensors and actuators, cloud computing, cognitive computing and Internet of Things. Through the workshop, the participants will get a holistic information on various disciplines and their contributions, in realizing the concept of Industry 4.0. The recent trends in technological developments that form the building blocks of Industry 4.0 will be covered in detail. The design principles, challenge and the future of employment will also be addressed in the workshop.
Theme and sub-themes of the Workshop

Theme: “Opportunities for Industry 4.0 applications in Indian Industries”

The fourth industrial revolution (Industry 4.0) primarily operates on cyber physical systems. The rapid changes in the information and communication technologies (ICT) have broken the boundaries between virtual reality and the real world. Industry 4.0 mainly creates a social network where machines can communicate with each other, called the Internet of Things (IoT) and with people, called the Internet of People (IoP). Machines communicate with each other and with the manufacturers to create a cyber-physical production system (CPPS). This helps industries integrate the real world into a virtual one and enable machines to collect live data, analyze them, and even make decisions based upon them. Advanced digital technology already used in manufacturing, would also transform production with Industry 4.0, which makes it possible to gather and analyze data across machines, increase productivity, shift economics, foster industrial growth, and modify the profile of the workforce, ultimately changing the competitiveness of companies and regions. This workshop would throw light on these issues and a knowhow on the nuances of Industry 4.0 in Indian Industries.

Content

- Introduction to Industry 4.0 technology
- Machine Learning and Artificial Intelligence in Indian Industries
- Cyber Physical Systems – An Insight
- Cognitive Computing and Internet of Things in Industries

Registration Fees (Inclusive of GST as applicable):

All delegates attending the workshop must register by filling the registration form available in the website of IEI-TLC and by paying registration fees as follows.

<table>
<thead>
<tr>
<th>Category</th>
<th>Early bird registration (Rs.)</th>
<th>From 16th Dec. 2019 onwards (Rs.)</th>
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<tr>
<td>IEI Members</td>
<td>1000</td>
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<tr>
<td>Non IEI Members</td>
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<tr>
<td>Research Scholars / Faculty</td>
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<tr>
<td>Students</td>
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</tbody>
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*EB – Early bird registration upto 15th December 2019.

Payment:

The payments can be made by

- A crossed Demand Draft / MICR Cheque, drawn in favour of “The Institution of Engineers (India), Tiruchirappalli Local Centre”, payable at Tiruchirappalli.
- Deposit the amount in our SB A/c No. 10891417887 of The Institution of Engineers (India), Tiruchirappalli. The deposit slip will form the document for payment and will be exchanged with the receipt at the registration counter.

Our BANKS:

State Bank of India, Heavy Electricals, Kalaasapuram, Tiruchirappalli – 620014, IFSC Code: SBIN001363, Branch code: Last six characters of IFSC code represent branch code, MICR code: 620002004

Venue: Siemens Centre of Excellence in Manufacturing National Institute of Technology, Tiruchirappalli

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