



# **SOCIETY OF DEFENCE TECHNOLOGISTS**

## **1-Day Workshop (Non-residential)**

**ON**

**“INDUSTRY 4.0”**

**Date:- 08<sup>th</sup> November 2019**

**Venue:- Hotel Royal Orchid Central, (Orange County Hall)  
#47/1 Dickenson Road, Manipal Centre  
Bengaluru – 560 042  
Phone:- 080-41935533 / 4193 5544**

### **Registration:-**

Registration fee will be Rs.4,500/-(Rupees Four Thousand and Five Hundred Only) per delegate plus 18% GST. Payment shall be made through Net Banking in favour of Society of Defence Technologists. For further details please contact:- Secretary General, Society of Defence Technologists, C/o Bharat Electronics Limited, Bangalore – 560 013. **Telefax:-080-28382612, E-mail:- [sodet@bel.co.in](mailto:sodet@bel.co.in) and Mobile No.9449821481.**

### **SODET Bank Details for sending the amount through fund transfer**

Name of the Bank	: -	State Bank of India
Name of the Branch	: -	BEL Factory Campus
Account No	: -	10838595127
A/c Holder	: -	Society of Defence Technologists
MICR Code	: -	560002115
IFSC Code of the Bank	: -	SBIN0010369
Account Type	: -	Current Account
GST Number	: -	29AADTS1687A1ZF
PAN No.	: -	AADTS1687A
SODET Website	: -	<a href="http://www.sodet.in">www.sodet.in</a>

## Brief About Industry 4.0

Industry 4.0 is a part of the fourth industrial revolution that concerns industry. The terms industry 4.0 and "fourth industrial revolution" are often used interchangeably. Industry 4.0 refers to the concept of factories in which machines are augmented with wireless connectivity and sensors, connected to a system that can visualise the entire production line and make decisions on its own.

In essence, industry 4.0 describes the trend towards automation and data exchange in manufacturing technologies and processes which include cyber-physical systems (CPS), the internet of things (IoT), industrial internet of things (IIOT), cloud computing, cognitive computing and artificial intelligence.

The concept includes:

- Smart manufacturing
- Smart factory
- Lights out (Manufacturing) also known as dark factories
- Industrial internet of things also called internet of things for manufacturing

There are four design principles in Industry 4.0. These principles support companies in identifying and implementing Industry 4.0 scenarios.

- **Interconnection:** The ability of machines, devices, sensors, and people to connect and communicate with each other via the Internet of Things (IoT) or the Internet of People (IoP)
- **Information transparency:** The transparency afforded by Industry 4.0 technology provides operators with vast amounts of useful information needed to make appropriate decisions. Inter-connectivity allows operators to collect immense amounts of data and information from all points in the manufacturing process, thus aiding functionality and identifying key areas that can benefit from innovation and improvement.
- **Technical assistance:** First, the ability of assistance systems to support humans by aggregating and visualizing information comprehensively for making informed decisions and solving urgent problems on short notice. Second, the ability of cyber physical systems to physically support humans by conducting a range of tasks that are unpleasant, too exhausting, or unsafe for their human co-workers.
- **Decentralized decisions:** The ability of cyber physical systems to make decisions on their own and to perform their tasks as autonomously as possible. Only in the case of exceptions, interferences, or conflicting goals, are tasks delegated to a higher level.

Reaching customer satisfaction is a multi-stage, never-ending process that needs to be modified currently as customers' needs change all the time. Therefore, companies expand their offerings by establishing disruptive digital business models to provide their customers digital solutions that meet their needs best.



## **PROGRAMME DETAILS**

**08<sup>th</sup> November 2019**

<b>Time</b>	<b>Event and Topics</b>
<b>09.15AM – 09.30AM</b>	<b>Welcome Address by Secretary General, SODET</b>
<b>09.30AM – 09.45AM</b>	<b>Inauguration</b>
<b>09.45AM – 10.00AM</b>	<b>Keynote Address</b>
<b>10.00AM - 10.15AM</b>	<b>Tea Break</b>
<b>10.15AM – 11:30AM</b>	<b>Session – I – Dimensions of Industry 4.0</b>
<b>11.30AM –12.30PM</b>	<b>Session – II – Organizational and Department Priorities</b>
<b>12.30PM – 01.15PM</b>	<b>Session – III – Strategic Priorities</b>
<b>01.15PM – 02.00PM</b>	<b>Lunch Break</b>
<b>02.00PM – 03.00PM</b>	<b>Session – III – Area of Concern</b>
<b>03.00PM – 03.15PM</b>	<b>Tea Break</b>
<b>03.15PM – 04.00PM</b>	<b>Session – IV – Case Studies</b>
<b>04.00PM – 04.30PM</b>	<b>Session – V – Interaction &amp; Clarification</b>
<b>04.30PM – 05.00PM</b>	<b>Concluding Session</b>