



ONE WEEK  
ONLINE SHORT TERM COURSE (e-STC)  
on

**Smart Manufacturing Technologies  
& Applications (SMTA 2021)**  
(20<sup>th</sup> - 24<sup>th</sup> December 2021)

**Organized by**

Department of Mechanical Engineering  
Sant Longowal Institute of Engineering

& Technology

(Deemed to be University under  
Ministry of Education, Govt. of India)  
Longowal -148106, Sangrur (Punjab)

**For Registration**



Day	Topic	Speaker	Institution	Time
DAY 1	Waste Management through Additive Manufacturing	Dr. Rupinder Singh	NITTT, Chandigarh (Chandigarh)	20 DEC 2021 (10.00 am-11:30 am)
	Micromachining of Miniature Devices	Dr. Manas Das	IIT, Guwahati (Assam)	20 DEC 2021 (11:35 am-1:05 pm)
	Multi-Criteria Decision-Making and Artificial Intelligence in Smart Manufacturing	Dr. Tej Singh	Eotvos Lorand University, Budapest, (Hungary)	20 DEC 2021 (2.00 pm-3:30 pm)
DAY 2	Robotics and Control: Self Driving Car Technologies	Dr. Manukid Parnichkun	AIT, Bangkok (Thailand)	21 DEC 2021 (10.00 am-11:30 am)
	Smart Manufacturing Technologies and Some Case Studies of SMEs Deploying these Technologies	Dr. Sameer Mittal	Tampere University, Tampere, (Finland)	21 DEC 2021 (11:35 am-1:05 pm)
	Role of Industrial Robots in Smart Manufacturing Applications	Dr. Ravi Kumar Mandava	MANIT, Bhopal (MP)	21 DEC 2021 (2.00 pm-3:30 pm)
DAY 3	Surface Metrology for Precision Manufacturing	Dr. Ajay M. Sidpara	IIT, Kharagpur (WB)	22 DEC 2021 (10.00 am-11:30 am)
	Design and Fabrication of Smart Antennas and Sensor for Automobile Application	Dr. Surinder Singh	SLIET, Longowal (Punjab)	22 DEC 2021 (11:35 am-1:05 pm)
	Smart Abrasive Flow for Nano Finishing of Biomedical Implants	Dr. Mamilla Ravi Sankar	IIT, Tirupati (AP)	22 DEC 2021 (2.00 pm-3:30 pm)
DAY 4	Smart Manufacturing Processes for Industry 4.0	Dr. Ravi Pratap Singh	NIT, Jalandhar (Punjab)	23 DEC 2021 (10.00 am-11:30 am)
	Role of Physical Simulation in Smart Manufacturing Industries	Dr. Kuldeep Kr Saxena	GIA University, Mathura, (U.P)	23 DEC 2021 (11:35 am-1:05 pm)
	Advanced Robotics Research and Application Development Platforms	Mr. Aditya Marathe	NUGENIX ROBOTICS, Ichalkaranji, (Maharashtra)	23 DEC 2021 (2.00 pm-3:30 pm)
DAY 5	Smart Manufacturing Techniques for Innovations and Start-ups	Dr. Harshit Dave	SVNIT, Surat (Gujarat)	24 DEC 2021 (10.00 am-11:30 am)
	Industrial Internet of Things (IIoT) and its Applications in Smart Manufacturing	Dr. M. R. Dhanvijay	College of Engineering, Pune (COEP), Pune, (Maharashtra)	24 DEC 2021 (11:35 am-1:05 pm)
	Simulation of Additive Manufacturing Processes	Dr. Sagar Nikam	Ulster University, Northern Ireland, (United Kingdom)	24 DEC 2021 (2.00 pm-3:30 pm)



**Chief Patron**  
Prof. Shaileendra Jain  
Director, SLIET, Longowal



**Patron**  
Prof. J. S. Dhillon  
Dean (Academics)



**Chairman**  
Prof. A. S. Shahi  
HOD (ME)



**Coordinator**  
Prof. Shankar Singh