

# Report on five days Short Term Course (STC) On Quality Management- New Trends and Applications (QMNTA-2022)

**Sant Longowal Institute of Engineering & Technology**  
(Deemed to be University, Estd. By MoE, Govt. of India)  
Longowal, Sangrur, Punjab

**Short Term Course (STC)**  
On  
**Quality Management — New Trends and Applications (QMNTA-2022)**  
(March 21<sup>st</sup> - 25<sup>th</sup>, 2022)

Organized by  
**Department of Mechanical Engineering**

**Organizing Committee**

Chief Patron: Dr. Shailendra Jain (Director)  
Patron: Dr. J.S. Dhillon (Dean Academics)  
Chairman: Prof. A.S. Shahi, HOD (ME)  
Convener: Dr. Pardeep Gupta, Professor (ME)  
Coordinator: Er. Sumit Kumar, AP (ME)

**Experts**

Dr. Pardeep Kumar, Professor, Department of Mechanical Engineering, IIT, Roorkee  
Dr. R. R. K. Sharma, Professor, Department of Industrial & Management Engineering, IIT Kanpur  
Dr. Om Parkash Yadav, Professor, Industrial and System Engineering Department, North Carolina A&T State University, Greensboro, USA  
Dr. Vimal Kumar, Assistant Professor, Department of Information Management, Chaoyang University of Technology, Taiwan

Dr. Pratima Verma, Assistant Professor, Strategic Management, IIM, Kozhikode  
Dr. IPS Ahuja, Professor, Department of ME, Punjabi University  
Mr. S. Sridhar, Factory Head, Hindustan Coca-Cola Beverages, Chennai  
Mr. J.C. Jha, Plant Head, National Engineering Industries, Jaipur  
Dr. Pardeep Gupta, Professor, Department of ME, SLIET Longowal  
Er. Sumit Kumar, Assistant Professor, Department of ME, SLIET, Longowal

**Registration**

Scan QR code

Or click on link [shomal@pslxc](mailto:shomal@pslxc)

Last date for application - March 11<sup>th</sup>, 2022  
Free registration for academia

Department of Mechanical Engineering, SLIET has organized 5 days short-term course on Quality Management- New Trends and Applications (QMNTA-2022) from 21<sup>st</sup> march to 25<sup>th</sup> March 2022. The STC was focused on the role of quality management in achieving Manufacturing and Business Excellence. The STC was sponsored by SLIET under a grant in aid fund. A total of 59 participants have registered in this STC from different institutes and universities in India. A total of 10 sessions of expert lectures were planned where 9 distinguished speakers from reputed Institutes and MNCs from India, the USA, and Taiwan shared their domain expertise and knowledge.

The course inauguration began with the address by the chief guest cum chief patron of the course Dr. Shailendra Jain Director SLIET, and Dr. J.S Dhillon (Dean Academics) cum Patron of the course. Chairman of the course Dr. A.S Shahi (Professor and Hod (ME), and convener of the course Dr. Pardeep Gupta professor (ME) introduced the audience to the various planned lectures in the course. The coordinator of the course Er. Sumit Kumar AP (ME) presented a vote to thank all the contributors who made this event possible.

The first day of the STC was dedicated to the basic tools needed for the establishment of a quality management system in an organization by Dr. Pardeep Kumar (Professor, IIT Roorkee). With great explanations, he demonstrated the implementation of these tools along with the inferences that can be drawn.

The second day of the course started with an informative talk on the evaluation of quality management system by Prof OP Yadav from North Carolina A & T state university USA, where he discussed the origin of TQM philosophy, In the evening session of the day in which our expert Shri S. Shridhar Plant head coca cola beverages, Chennai delivered a lecture on TPM and Self-managed teams. In this, the expert shared his industrial experience in the form of stories

The third day of the course started with a very detailed presentation on strategic quality management perspective giving great insight on the implementation of TQM in an organization by Dr. Pardeep Gupta,

professor in the department of Mechanical Engineering, SLIET Longowal. The evening session of the third day was devoted to the achievement of manufacturing Excellence through TPM in the Indian Manufacturing Industry and this concept of OEE and 16 major losses was beautifully presented by Dr. IPS Ahuja (Professor in the department of Mechanical engineering at Punjabi university Patiala).

The fourth day of the course started with an expert lecture on the role of quality 4.0 in digital manufacturing where the glimpses of Industry 5.0 was shared with the participants by Dr. Vimal Kumar (Assistant Professor in the Department of Information Management, Chaoyang University of Technology, Taiwan. In The evening session of the fourth day Dr. RRK Sharma, professor in the Department of Industrial & Management Engineering, IIT Kanpur portrayed the critical success factors for the implementation of TQM with emphasis on future research direction.

The final fifth day of the course began with a lecture on Operational Strategic Rules through Flexible Operations by Dr. Pratima Verma, Assistant Professor in the Department of Strategic Management IIM Kozhikode. she presented her great views regarding the various myths that exist in an organization like cost reduction for profitability. She also discussed the strategies for having operational excellence in an organization and in the evening session of the final day Mr. Sumit Kumar (Assistant professor in the department of Mechanical engineering, SLIET) discussed the role of TQM/TPM in the business transformations needed for the manufacturing as well as business excellence.

### List of Participants

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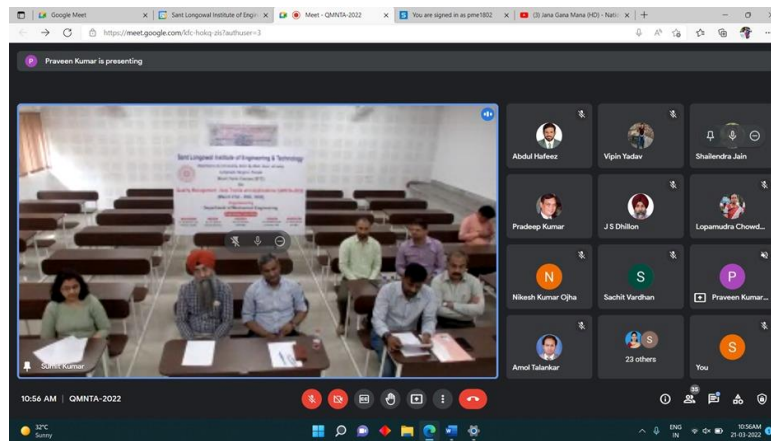


Figure 1: Course Inauguration Day

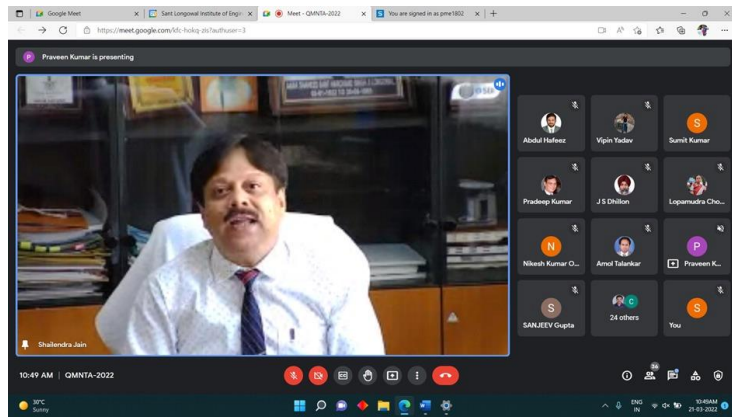


Figure 2: Course Inauguration by Director SLIET



Figure 3: Course Inauguration-day

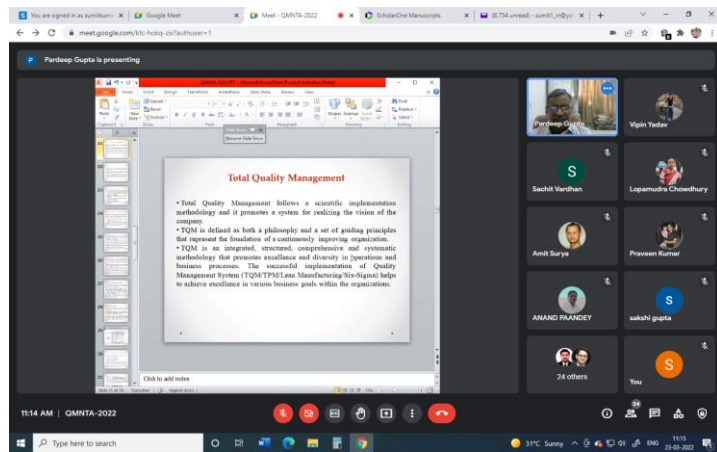


Figure 4: Expert Lecture by Dr. Pardeep Gupta (Prof.)

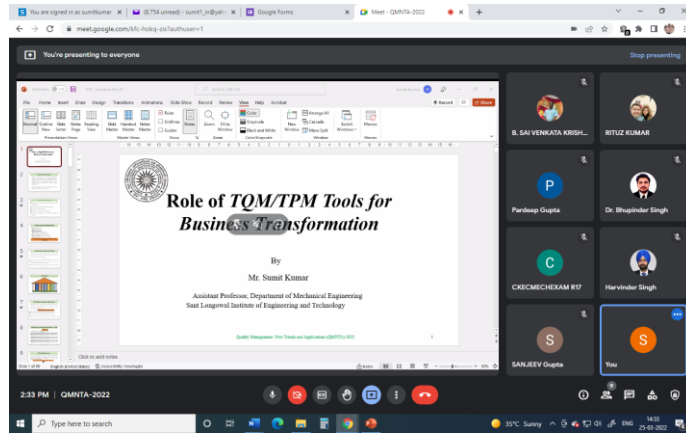


Figure 5: Expert Lecture by Sumit Kumar