

Metrology Laboratory – Siemens Centre of Excellence (SCoE)

About the Laboratory

The Metrology Lab of the Siemens Centre of Excellence is established to provide students and researchers with practical knowledge and hands-on experience in precision measurement, dimensional inspection, and advanced metrology techniques. The laboratory supports teaching, research, and industrially oriented activities in the area of metrology and measurements. The laboratory is equipped with advanced facilities including Coordinate Measuring Machine (CMM), ZEISS COMET Blue Light 3D Scanner, Dexcel Imaging software, and MSU3D-PRO software. These facilities enable accurate dimensional measurement, 3D scanning, inspection, measurement analysis, and digital evaluation of engineering components. The major activities of the laboratory include conducting practical sessions for the Metrology & Measurements (MEIC-426) course, hands-on training in conventional and advanced measurement techniques, dimensional inspection of engineering components, 3D scanning and measurement, data analysis, and supporting B.Tech., M.Tech., and Ph.D. teaching and research activities.

Faculty In-Charge

Dr. Manoj Kumar Sinha

Technical Staff

Sh. Deepak, Sr. Technician

Laboratory Courses Conducted

S. No.	Course Code	Course Name	Programme
1	MEIC-426	Metrology & Measurements	B.Tech

Major Equipment/Software

S. No.	Name of Major Equipment/Software	Quantity	Utilization (B.Tech./M.Tech.)
1	Dexel Imaging (Software)	1	B.Tech./M.Tech./Ph.D.
2	MSU3D-PRO (Software)	1	B.Tech./M.Tech./Ph.D.
3	CMM (Coordinate Measuring Machine)	1	B.Tech./M.Tech./Ph.D.
4	ZEISS COMET Blue Light 3D Scanner	1	B.Tech./M.Tech./Ph.D.

Laboratory Photographs



Coordinate Measuring Machine (CMM)



ZEISS COMET Blue Light 3D Scanner