



## Department of Mechanical Engineering

Date: 15-05-2025

### Report on One-Day Workshop on “Introduction to Limits, Fits & Tolerances and Geometrical Dimensioning & Tolerancing (GD&T)”

A One-day workshop on " Introduction to Limits, Fits & Tolerances and G D & T” was organized by Department of Mechanical Engineering, ATMECE in association with ISTE-Student Chapter, on 15<sup>th</sup> May 2025. The participants were the students of IV and VI semester Mechanical Engineering Department. Workshop had two sessions-Theory Sessions in the morning by experts at the college and Hands-on session in the afternoon at GTTC, Mysuru.

The resource persons were **Prof. C M Aswathappa**, presently working as Professor of Practice and Head- Industry-Institute Interaction, Vemana Institute of Technology, Bangalore. Before being joined to the educational institution, he served at Bosch company for a longer period at different levels and discharged his duties at various capacities. Later he retired from Bosch company as Deputy General Manager- (Training & Development).

Prof. C M Aswathappa has expertise in the field of Limits, Fits & Tolerances and worked in advanced metrology Laboratory at Bosch company Ltd. Mr Aswathappa served Bosch company Ltd for more than 38 years in various capacities. Another resource person Mr. V Anantha Padmanabha Sarma, Centre Head and Scientist-F (Retd.), Academy of Excellence for Advanced Manufacturing Technology, CMTI, Bangalore has expertise in the field of Geometrical Dimensioning & Tolerancing (GD & T). Mr. V A P Sarma was giving training on GD & T to the many employees from different industries like L&T, BEML, HAL etc., Mr. Sarma served CMTI for more than 30 years in various capacities.

The workshop was inaugurated by C M Aswathappa at 10:00am at Seminar Hall E106. Mr. V A P Sarma, Dr. Srinivasa K, Prof. and Dean-Student Affairs, and Dr. Chethan S, HOD of ME Dept. were present during the occasion. Dr. Chethan S welcomed the speakers and all other dignitaries, to the inaugural program. Dr. Chethan S, HOD, highlighted the importance of learning and gaining knowledge on the above-mentioned topic which is required in the field of Design and Manufacture.

Prof. C M Aswathappa gave a talk and enlightened the students' participants on Limits, Fits and Tolerances for industrial applications and ISO standards. Also expressed the benefits of

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“adoption of Interchangeability” at various production industries viz., batch and mass production industries. Also, the resource person highlighted on “concept of selective assembly approach”. Another resource person, Mr. V A P Sarma educated our students on Geometrical Dimensioning and Tolerancing in his speech in the morning session-2.

After lunch the participants were taken to GTTC, Mysuru by the college bus for a Hands-on session to familiarize the students with how the advanced measuring instruments to be handled and used to check the dimensional features of various precision components. This hands-on session for the participants was conducted under the guidance of Mr. Srinivas Bhat, COE, GTTC, Mysuru.



Welcoming Resource Persons



Introducing the Resource Persons to the participants

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Speaker Mr. C M Aswathappa delivering the lecture on Limits, Fits and Tolerances



Speaker Mr. VAP Sarma delivering a lecture on GD & T



Mr. VAP Sarma was explaining while delivering a lecture



Mr. VAP Sarma had Interactions with the students and staff during his session



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Participants assembled to visit GTTC, Mysore by college bus



Students at the Advanced Metrology lab and Instructor explaining about the features of the machine and its accuracy.



Students Infront of the precision components at the display table along with the instructor.



Students assembled in front of the training Centre along with COE Head and Trainers