

**PSG Institute of Technology and Applied Research**

**Department of Mechanical Engineering**

Event title	2 Days Training Program On “ <b>Geometric Dimensioning and Tolerancing in Design through Manufacturing</b> ” for Bull Machines
Event Category	Workshop
Date and Duration	13.7.24 & 20.7.24 – Two days
Department	Mechanical
Co-ordinator	Dr S Nanthakumar, Associate Professor Mechanical Department
Resource Person	Dr R Ramesh, Professor & Head Mechanical Department
No. of Participants Registered	43
No. of participants Attended	43

1. The two days course on GD&T begun with the welcome address by Dr S Nanthakumar, ASP, Department of Mechanical Engineering. He welcomed the gatherings and introduced the resource person to the participants.
2. Dr N Saravanakumar, Principal, PSG ITech welcomed the participants from Bull Machines and outlined the importance of the such workshop for current industries.
3. Dr R Ramesh, Professor and Head, Department of Mechanical Engineering started the session (Day 1- 13.7.24) with a basic introduction to GD&T.
4. He mentioned that GD&T is a crucial factor for modern industrial manufacturing, serving as a universal language for engineers and designers to communicate design intent with clarity and precision.
5. This approach ensures parts are manufactured to function as intended while optimizing production processes and reducing costs. Participants were asked to take 10 hours online course on GD&T through IMTMA portal.
6. Day 2 (20.7.24) started with a recap of previous session. Unlike traditional dimensioning, which specifies exact measurements, GD&T allows for more detailed control over part tolerances and relationships between features.
7. GD&T allows for more detailed control over part tolerances and relationships between features. This approach ensures parts are manufactured to function as intended while optimizing production processes and reducing costs.
8. Participants were given case studies and real-world examples illustrating how GD&T improves product quality, enhances interchangeability of parts, and facilitates assembly processes.
9. By employing GD&T principles, companies achieve tighter control over manufacturing processes, reduce scrap and rework, and enhance overall product reliability and performance..

10. Finally, the two day course ended with a vote of thanks from Mr Sampath, Head R&D division, Bull machines, Coimbatore. Certificates were given to the participants who has successfully completed the online course from IMTMA.



**Event Photo**



**Group photo**