



BVVS
BAGALKOTE

InPro Efficiency



I&PE, BEC, Bagalkote

Shaping Excellence in Industrial & Production Engineering Since 1984

Newsletter March 2026



Retirement function of Dr. V. G. Akkimardi

The retirement function of Dr. V. G. Akkimardi, Head of the Department of Automobile Engineering and a respected former faculty member of the Industrial and Production Engineering (IPE) department, was held on 29th March 2026 with great warmth and reverence. The event was jointly organized by the Departments of Automobile Engineering and Industrial and Production Engineering to honor his decades of dedicated service, exemplary leadership, and unwavering commitment to academic excellence. Dr. V. G. Akkimardi has been widely admired for his deep subject knowledge, disciplined approach, and student-centric teaching methodology, which has inspired generations of engineers.

During his tenure, he played a significant role in strengthening the Department of Automobile Engineering and Industrial and Production Engineering, by introducing innovative teaching practices, promoting industry-institute interaction, and encouraging students to participate in technical competitions and projects. His contributions to curriculum development, departmental administration, and mentoring of young faculty have been highly impactful. As a faculty member associated with IPE, he also fostered interdisciplinary collaboration and contributed to the overall academic growth of the institution.

The function witnessed the presence of faculty members, staff, students, and well-wishers who gathered to express their gratitude and share their fond memories. Many speakers highlighted his humility, approachability, and strong ethical values, which made him not only a respected teacher but also a beloved mentor and guide. The event included felicitation, presentation of mementos, and heartfelt speeches that reflected the deep respect he has earned over the years.

As Dr. V. G. Akkimardi prepares to retire on 31st March 2026, the occasion was both a celebration of his remarkable journey and an emotional farewell. His legacy of dedication, discipline, and excellence will continue to inspire the institution and its students for years to come.





Mr. Gitan Ginde visited the department on 27th March 2026 and discussed changes that are taking place in Industrial and other sectors and conducted SDP for students of Mechanical Engineering Sciences.

Mr. Gitan Ginde is Industrial and Production Engineering Graduate from Karnataka University & Certified Six Sigma Black Belt Champion from Mahindra Institute of Quality.

He is a technocrat with 27 years of experience in Mechanical Product Design & Development, Validation, Quality Planning and Vehicle Launch. He has worked with leading automotive OEM's, Tire-1 suppliers and Leading Engineering Consulting groups across multiple geographies like USA, South Korea and India.

He successfully delivered seven completely new Vehicle Programs from concept design to production (Mahindra Thar, KUV-700 , Scorpio-N, XUV-3X0, BEV-6E BEV-9E, ME-TREO) and Lead the Engineering Release activity for 20+ completely new Vehicle and Major Refresh Programs.

He has trained around 2000+ working professionals across Indian industry on topics like, GD&T, Tolerance Stack, 3D-Variatioal Analysis, FMEA, DFM/DFA, Six Sigma, Etc,

Mr. Gitan Ginde had been Member of BOS for Basaveshwar Engineering College Bagalkot (IP Dept) and MIT- Manipal (Automotive and Aerospace Engineering) for the period of two years.

At Present he is working as Founder Director of Ganitharth Technologies (IT Company) and G-VACS India Private Ltd (Electronic and Mechatronics parts Design/Manufacturing startup) He has been associated with Mahindra & Mahindra at Research Valley Chennai as Head of Design Quality & Dimensional Engineering Function. In past he has worked with companies like Satyam Venture Engg Services (Now Tech Mahindra), Lear Corporation, Tata- Johnson Controls. He also has worked with Whirlpool India, Snider Electricals, ABB-India, DRDO Labs as Engineering Consultant

Introduction

Geometrical Dimensioning and Tolerancing (GD&T) is a standardized system used to define and communicate engineering tolerances. Unlike traditional dimensioning, which focuses only on size, GD&T specifies the allowable variation in the geometry of a part, including its form, orientation, location, and profile. It uses a symbolic language governed by standards such as ASME Y14.5 to ensure that designers, manufacturers, and inspectors interpret drawings consistently. GD&T helps in clearly conveying design intent, reducing ambiguity, and improving the functionality and interchangeability of parts.

Applications of GD&T

GD&T is widely applied in industries such as automotive, aerospace, manufacturing, and precision engineering. It is used during product design to ensure that parts fit and function properly when assembled. In manufacturing, GD&T guides machinists and quality engineers in maintaining the required tolerances. It also plays a crucial role in inspection and quality control, where coordinate measuring machines (CMMs) and other tools verify whether parts meet specified tolerances.

For example, in CNC machining, GD&T ensures that holes, shafts, and surfaces are produced within acceptable limits so that components can be assembled without additional adjustments. In mass production, it helps maintain consistency across thousands of units, thereby reducing rejection rates and production costs.

Importance for Mechanical Engineering Students

For mechanical engineering students, understanding GD&T is vital because it bridges the gap between design and manufacturing. It enhances their ability to read and create engineering drawings accurately. Knowledge of GD&T improves problem-solving skills by enabling students to analyze how variations in geometry affect product performance. It also increases employability, as industries highly value engineers who can apply GD&T principles effectively in design and quality assurance.

Moreover, GD&T promotes a deeper understanding of concepts such as fits, tolerances, and assembly relationships. It helps students think beyond ideal dimensions and consider real-world manufacturing limitations.

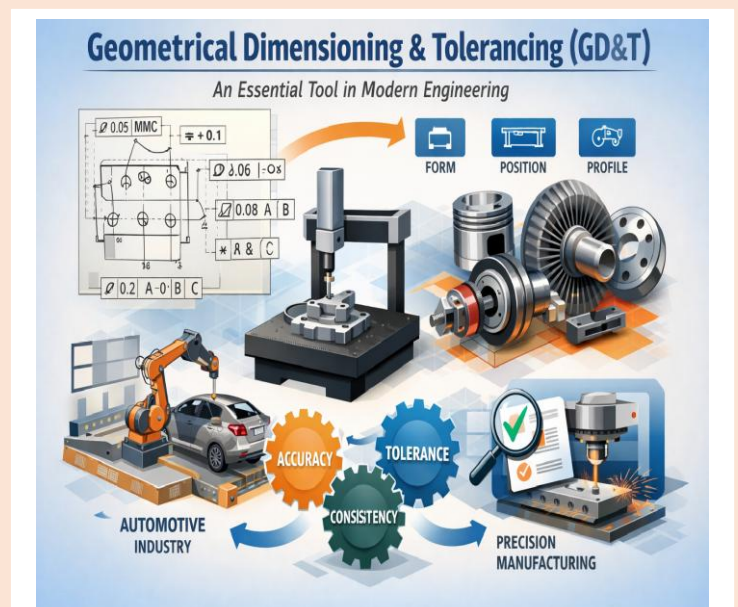
Real-Life Applications

One common real-life application of GD&T is in automobile engines. Components like pistons, cylinders, and crankshafts must be manufactured with precise tolerances to ensure smooth operation and efficiency. GD&T ensures that these parts align correctly and function reliably under high temperatures and pressures.

Another example is in aerospace engineering, where aircraft components require extremely tight tolerances for safety and performance. For instance, the alignment of turbine blades in jet engines is controlled using GD&T to prevent vibration and ensure optimal airflow.

Conclusion:

In conclusion, GD&T is a powerful tool that enhances clarity, precision, and efficiency in engineering design and manufacturing. For mechanical engineering students, mastering GD&T is essential to succeed in modern industry, as it ensures that products are functional, reliable, and cost-effective.



The one-day Student Development Programme (SDP) on “**Geometrical Dimensioning and Tolerancing (GD&T)**” was successfully conducted on 27th March 2026 in the seminar hall of the Department of Mechanical Engineering. The programme was jointly organized by the Departments of Mechanical Engineering Sciences, including the Department of Mechanical Engineering, Industrial and Production Engineering, and Automobile Engineering, with the objective of enhancing students’ understanding of modern engineering design practices. The resource person for the session was Mr. Gitan Ginde, an esteemed alumnus of the IPE Department and Founder Director of Ganitharth Technologies, who brought valuable industry insights to the programme. He delivered an in-depth and practical-oriented session on GD&T, covering fundamental concepts such as symbols, datums, tolerance zones, and their real-time applications in design, manufacturing, and quality control. He emphasized the importance of GD&T in ensuring product functionality, interchangeability, and cost efficiency in industries such as automotive and aerospace. The session also included illustrative examples, case studies, and interactive discussions that enabled students to connect theoretical concepts with real-world engineering problems. Participants gained clarity on interpreting engineering drawings and the role of GD&T in minimizing production errors and improving product quality. The programme witnessed active participation from students across departments, making it highly engaging and informative. Overall, the SDP proved to be a valuable learning experience, equipping students with essential industry-relevant skills and reinforcing the importance of precision engineering in modern manufacturing practices.



COLLEGE

Vision

To be an institution of excellence in education, research and innovation for sustainable future

Mission

- Develop globally competent professionals for future talent requirements
- Nurture a culture of research, Innovation and entrepreneurship
- Promote collaborations, extension and outreach programs for addressing industrial and societal needs

DEPARTMENT

Vision

To achieve excellence in education and research in Industrial and Production Engineering for a sustainable future

Mission

- Develop globally competent professionals in Industrial and Production Engineering by imparting quality education
- Nurture a culture of research, innovation, and entrepreneurship through collaboration with institutes and industries

Editorial Board

Dr. C. M. Javalagi

Dr. S. M. Pharsiyawar

Shri. P. S. Bhavimath &

Shri. S. B. Hirekumbi