



BVVS
BAGALKOTE

InPro Efficiency



I&PE, BEC,
Bagalkote

Shaping Excellence in Industrial & Production Engineering Since 1984

Newsletter February 2026



Human-Centered Industrial Engineering: Ergonomics as the Engine of Smart, Sustainable Productivity

Ergonomics is a fundamental pillar of Industrial Engineering because it integrates human capability with system design to achieve optimum productivity, safety, and quality. Industrial Engineering primarily focuses on designing efficient work systems, improving processes, reducing waste, and enhancing overall performance. However, no production system can be truly efficient unless it considers the physical, cognitive, and organizational limitations of the human worker. Ergonomics ensures that machines, tools, tasks, and environments are designed to fit human abilities, thereby creating a balanced and sustainable production system.

From a **physical ergonomics** perspective, Industrial Engineers apply ergonomic principles in workstation design, plant layout, material handling systems, and tool development. Proper work height, optimal reach zones, correct seating posture, and mechanical lifting aids reduce musculoskeletal disorders (MSDs), fatigue, and repetitive strain injuries. When unnecessary bending, stretching, and awkward postures are eliminated, motion economy improves and cycle times reduce. This directly supports method study and work measurement by minimizing non-value-added activities and improving productivity.

Ergonomics: Fitting the Workplace to the Worker



Strategic Impact & ROI



In terms of **cognitive ergonomics**, modern industries increasingly rely on automation, digital dashboards, and human-machine interfaces. Poorly designed control panels or confusing information displays can lead to operator errors, accidents, and quality defects. Ergonomic design of control systems enhances decision-making, reduces mental workload, and improves process reliability. In Industry 4.0 environments, where humans interact with robots and AI-driven systems, cognitive ergonomics ensures safe and effective collaboration.

Organizational ergonomics further strengthens industrial performance by addressing work scheduling, job rotation, teamwork, and communication systems. Well-planned work-rest cycles, balanced workloads, and participative management reduce stress and burnout. This leads to higher employee morale, lower absenteeism, and better retention rates. An ergonomically structured organization fosters a culture of safety and continuous improvement, aligning with Total Quality Management (TQM) principles.

For industries, the usefulness of ergonomics extends beyond worker comfort. It delivers measurable economic benefits. Reduced injury rates decrease medical expenses, compensation claims, and downtime. Improved worker efficiency enhances throughput and reduces rework. Quality improves because less fatigued workers make fewer errors. Moreover, compliance with occupational safety regulations protects organizations from legal liabilities and strengthens corporate reputation.

Ergonomics also plays a crucial role in sustainability. By promoting safer workplaces and healthier employees, industries move toward long-term operational stability. Sustainable productivity is achieved not by overburdening workers but by designing intelligent systems that support human performance.

In conclusion, ergonomics is not merely a safety requirement but a strategic tool in Industrial Engineering. It harmonizes human well-being with operational efficiency, leading to higher productivity, better quality, cost reduction, and enhanced employee satisfaction. For industries aiming at competitiveness and excellence, ergonomics is an indispensable component of system design and continuous improvement.

Anti-Ragging Awareness Programme on 26-02-2026

Anti-Ragging Awareness Programme

The Department of Industrial and Production Engineering (IPE) conducted an Anti-Ragging Awareness Meeting to reinforce its unwavering commitment to providing a safe, respectful, and inclusive academic environment. The session was organized to sensitize students—both seniors and juniors—about the legal, social, and psychological consequences of ragging and to promote a culture of mutual respect and professional conduct within the department.

The meeting began with an address highlighting that ragging, in any form—verbal, physical, psychological, or online—is strictly prohibited and punishable under law. Students were informed about the regulations of the University Grants Commission (UGC) and the guidelines issued by the All India Council for Technical Education (AICTE), which mandate zero tolerance toward ragging in higher educational institutions. The provisions of the Supreme Court directives and institutional disciplinary procedures were clearly explained, emphasizing that strict action, including suspension or expulsion, may be taken against offenders.

The importance of anti-ragging was discussed not merely from a legal standpoint but also from an ethical and professional perspective. As future engineers and managers, students were reminded that professionalism begins with respect for human dignity. Ragging undermines confidence, affects mental health, and creates fear among newcomers, thereby disturbing the academic climate and affecting overall institutional performance. A healthy educational environment, on the other hand, fosters collaboration, innovation, and leadership—qualities essential for Industrial and Production Engineers.

The meeting also highlighted the availability of institutional support mechanisms, including the Anti-Ragging Committee, Anti-Ragging Squad, grievance redressal systems, and confidential reporting channels. Students were encouraged to report any incidents without hesitation and were assured complete confidentiality and protection. Contact details of nodal officers and helpline numbers were shared for immediate assistance.

An Anti-Ragging Pledge was administered at the end of the session, wherein students collectively affirmed their commitment to uphold discipline, dignity, and mutual respect. The gathering concluded with an interactive discussion, allowing students to clarify doubts and express their views on building a positive departmental culture.

The Anti-Ragging Awareness Meeting reaffirmed the department's dedication to nurturing not only competent engineers but also responsible citizens. By promoting awareness, accountability, and empathy, the Department of Industrial and Production Engineering continues to ensure that its academic environment remains safe, inclusive, and conducive to holistic growth.



ANTI-RAGGING AWARENESS PROGRAMME 2025-26

Venue: Department Computer Centre
DEPARTMENT OF INDUSTRIAL AND PRODUCTION ENGINEERING

Date: 26th February 2026



Programmes attended

FDP's attended

Dr. C.M. Javalagi attended five days Faculty Development Program on **"Smart Irrigation Systems"** conducted by Department of Mechanical Engineering, Basaveshwar Engineering College, Bagalkote from 09-02-2026 to 13-02-2026. The Five Days Faculty Development Programme (FDP) on Smart Irrigation Systems: Design, Automation, Integration and Sustainable Practices in Agriculture, organized by the Basaveshwar Engineering College, Bagalkote through its Department of Electrical and Electronics Engineering from 9th to 13th February 2026, aims to equip faculty members, researchers, industry professionals, and agri-technology practitioners with advanced knowledge of smart irrigation technologies. The FDP focuses on integrating automation, IoT, sensors, control systems, power electronics, renewable energy solutions, and data analytics to enhance irrigation efficiency, water resource management, and sustainable agricultural practices. Covering topics such as soil-plant-water interaction, irrigation water quality assessment, image processing applications, solar and hybrid energy systems, and case studies in precision agriculture, the programme emphasizes interdisciplinary research and real-world implementation. With expert resource persons from reputed institutions, research organizations, and industry, the FDP is designed to foster innovation, research collaboration, and technology-driven solutions to address contemporary challenges in agriculture, particularly in the context of water scarcity, energy efficiency, and climate resilience.



- Dr. S. M. Pharsiyawar attended Five Days Faculty Development Program on “**Industrial Automation**” conducted by Department of Mechanical Engineering , Basaveshwar Engineering College, Bagalkote from 09-02-2026 to 12-02-2026



- Dr. S. M. Pharsiyawar attended Six Days Online Faculty Development Program on “**Generative & Agentic AI – Tools & Demo’s**” Organized by Department of Computer Science & Engineering , Sardar Vallabhbhai National Institute of Technology(SVNIT) from 16th – 21st February 2026

Programmes to be Conducted

SDPs to be conducted

1. Title of the Programme: *Pathways to Serve the Nation: Engineering Careers in the Indian Army*

This seminar aims to inform engineering graduates about the diverse career opportunities in the Indian Army, focusing on the importance of engineering skills in military operations, the various entry schemes, roles, career growth prospects, and the preparation process, with the goal of motivating students to consider serving the nation.

2. Title of the Program: *Business Plan Presentation Contest (BPPC)*

The Business Plan Presentation Contest (BPPC) seeks to inspire students to develop innovative business ideas and refine their skills in creating and presenting business plans, while providing networking opportunities with industry experts and potential investors to foster entrepreneurial spirit and innovation.

COLLEGE VISION AND MISSION

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 AND MISSION

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

IPE

**ENGINEERS MAKE THINGS
INDUSTRIAL ENGINEERS MAKE THINGS BETTER**