K K Wagh Education Society's
K K Wagh Institute of Engineering Education and Research, Nashik.

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TECHNICAL NEWS LETTER

Women's Day Celebration

A session on 'Work-Life Balance for Working Women' by Dr. Saroj Upasani

K.K. Wagh Institute of Engineering Education & Research organized a special event on 8th March 2025 to celebrate women's day. The event aimed to inspire and empower women by addressing crucial aspects of work-life balance for working women.The highlight of the celebration was an insightful session on 'Work-Life Balance for Working Women', which provided valuable guidance and strategies for managing professional and personal responsibilities effectively. The session was designed to address the challenges faced by women in balancing career aspirations and personal commitments while maintaining overall well-being.The session was conducted by Dr. Saroj Upasani, a distinguished expert with 55 years of experience in nursing education, healthcare, and academic leadership. Her vast knowledge and practical insights enriched the discussion, offering attendees meaningful takeaways for achieving a balanced life.The event witnessed active participation from girl students and faculty members, with a total of 119 attendees who engaged enthusiastically in discussions and interactive activities. The session facilitated a meaningful exchange of ideas, allowing attendees to gain practical insights into time management, stress management, and self-care techniques essential for maintaining a healthy work-life balance.

Visit of Hon. Prof. Dr. Prem Vrat

Hon. Prof. Dr. Prem Vrat (Chairman, Governing Board, I.I.T. (ISM) Dhanbad and I.I.T. Mandi, Pro-Chancellor, Professor Eminence and Principal Mentor, North Cape University, Gurugram, Haryana) visited K. K. Wagh Institute of Engineering Education and Research, Nashik on 10th March 2025 under the AICTE Distinguished Professor Scheme. During visit, Dr. Prem Vrat gave an excellent lecture to the college faculty on "Strategies for Enhancing Productivity and Measurement of Doctoral - Multidisciplinary Research". Explaining the potential of multidisciplinary research to college teachers and those who want to do research, he said that multi-disciplinary research has immense potential for innovation, solving complex problems, and scientific and technological advancement.

Felicitation of Dr. Prem Vrat

Visit of Hon. Prof. Dr. Prem Vrat: Interaction with Faculty and Students

Prof. Prem Vrat Leads Interactive Industry Session

Prof. Vrat emphasized the crucial role of industry support in developing a skilled workforce tailored to industrial needs. Participants engaged in discussions on academic collaboration and innovation-driven growth in Nashik's evolving industrial landscape. Prominent attendees included representatives from BOSCH Ltd., Shree Durga Industries, Sarthak Engineering, The

Purchase House, Konark Engineering, Positive Metering Pumps, Meghpushpa Energy Technologies, AAA Engineering Services, Eluminous Technologies, SMP Engineers, Deeds Oil Pvt. Ltd., and Mosdorfer India Pvt. Ltd. The event highlighted the importance of mutual growth through academia-industry synergy and experiential learning.

Industry Representatives with Dr Prem Vrat

INNOV-ERA 2025: Pioneering the future of Technology

The National-level Hackathon hosted by K.K. Wagh Institute of Engineering Education & Research, proved to be a melting pot of innovation, creativity, and problem-solving. With participation from across India, the event provided a dynamic platform for young minds to develop cutting-edge solutions to real-world challenges. The competition was structured into three rigorous rounds, testing participants' technical skills and problem-solving capabilities. In the first round, Sankalp, 180 teams submitted their project proposals, presenting innovative solutions, out of which 125 teams advanced to the next stage. In Prakalp, the second round, teams developed working prototypes to demonstrate feasibility and real-world impact, and 25 teams moved forward. The final round, Utkarsh, saw the top 25 teams competing in an intense 12-hour live Hackathon, refining and presenting their projects before an esteemed jury. Mr. Atul Kahate, renowned scientist and author inaugurated the competition on 2nd March 2025. The Prize Distribution was done at the hands of Dr. Pravin Gedam (IAS) Divisional Commissioner Nashik. Shri Sameer Wagh Chairman KKWES, Prof. K S. Bandi Secretary and Dr K. N. Nandurkar Principal were present on this occasion.

GENESIS 2025: The event of Computer Science & Design

The Computer Science & Design Department at K.K. Wagh Institute of Engineering Education & Research launched GENESIS 2025, a landmark event that set new standards in competition, innovation, and intellectual engagement. As the department's first flagship event, GENESIS was designed to foster creativity, strategic thinking, and technical excellence, bringing together participants from across Nashik. The event

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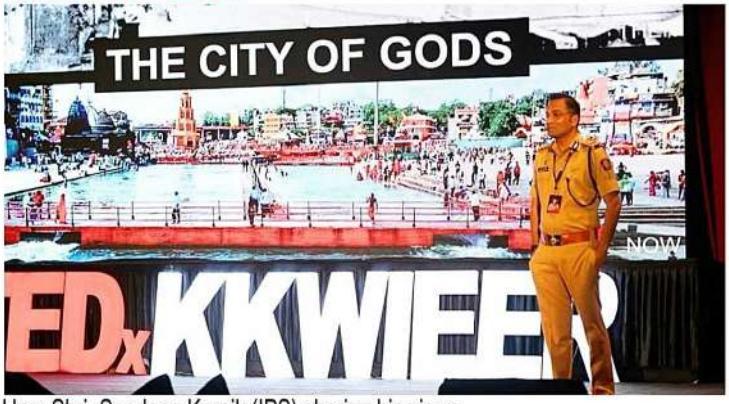
featured two premier competitions—AURA E-Sports and SharkVerse KKWIEER—each tailored to challenge and inspire. AURA E-Sports provided a competitive gaming arena where teams demonstrated precision, adaptability, and teamwork in high-stakes digital battles. Meanwhile, SharkVerse KKWIEER offered aspiring entrepreneurs a platform to present innovative business ideas, engage in strategic negotiations, and defend their valuations in a simulated investment environment.

IET India Officer Visit

Shri. Amitabh Sinha, Head of Growth, IET India, and Ms. Saudamini Dutta, Assistant Manager, Business Development, IET India, visited the K K Wagh Institute of Engineering Education and Research, Nashik on 12th March 2025 and discussed the IET activity plan with Director, Dr. Keshav Nandurkar, IET Nashik Local Network Chairman Dr Prashant Kushare and Dr. Ravindra Munje. The insightful discussion revolved around the IET Academic Affiliate plan, focusing on how this collaboration can foster institutional development, enhance academic excellence, and provide global exposure for students and faculty.

TEDxKKWIEER



Hon. Shri. Sandeep Karnik (IPS) sharing his views

On the special occasion of 40 years of the institute, K K Wagh Institute of Engineering Education and Research has organized TEDxKKWIEER, on 5th March 2025. This event brought together a stellar line-up of speakers Hon. Shri. Sandeep Karnik (IPS), Shri. Shivendra Pratap, Singh Kanwar, Mr. Zeeshan Ali, Ms. Isha Chande, Shri. Ranjit Bajaj and Shri. Iqlipse Nova. Their thought-provoking talks, combined with amazing student performances, created an unforgettable experience! This event reaffirms the power of teamwork—when leaders, mentors, and students come together with a shared vision, great things happen! This full day event was held in Gurudakshina Hall, College Road, Nashik. Hon. Sameer Wagh, Chairman KKWES, Shri. Ajinkya Wagh, Public Relation Director, Smt. Shakuntalatai Wagh, Trustee, Dr. K. N. Nandurkar, Dr. V. M. Sewalikar, all Deans, HODs, staff and Students attended the event in large numbers.

Prize Distribution IET KK WAGH EXPO 2025

The IET KK WAGH EXPO 2025, orchestrated by the Electrical Department of K.K. Wagh Institute of Engineering Education and Research, Nashik, emerged as a resounding testament to the power of innovation and the boundless potential of young engineers. Over two exhilarating days, February 28th and March 1st, 2025, the expo transformed the campus into a dynamic hub of creativity, collaboration, and technical prowess, drawing participants and spectators nationwide. The expo reached its culmination with a valedictory function on March 1st at 4:00 PM. Shri. Ramesh Saligrama, Vice President at Robert Bosch India Nashik, graced the occasion as the Chief Guest, delivering an inspiring address that resonated with the audience. The prize distribution ceremony celebrated the achievements of the participants, recognizing their hard work and dedication. The success of the IET KK WAGH EXPO 2025 was made possible by the generous support of sponsors, including CG Power and Industrial Solutions Limited, Lauritz Knudsen, Legrand, MSS India, KOSO, Accusonic Controls, ICAD, and Garwa Water Companion.

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Board of Examinations (BoE) Meeting

The Board of Examinations (BoE) meeting was held on 28th March 2025 at 2:30 PM in the IQAC Hall, Ground Floor, KKWIEER, Nashik. The meeting began with a warm welcome extended to all the esteemed members of the BoE. The agenda included confirmation of the minutes from the previous meeting, followed by the presentation of the Action Taken Report by the Examination Cell. The members deliberated and approved the Internal Semester Examination (ISE) and End Semester Examination (ESE) results for Semester I of the academic year 2024-25.Further discussions led to the approval of recommendations made by the UMIC. The meeting also provided a platform for valuable guidance and insights from BoE members.

TELEKINESIS 2K25

Inauguration of TELEKINESIS 2K25

On 1st March 2025, the Department of Electronics and Telecommunication Engineering at K. K. Wagh Institute of Engineering & Research, Nashik, hosted its annual tech fest, TELEKINESIS 2025, in collaboration with IETE. The event featured diverse competitions like Debate, Coding, Circuit Design, AI Challenge, Poster Design, Presentation Skills, and Reels Making, coordinated by enthusiastic student leaders under faculty guidance. With active participation from students and a focus on innovation, problem-solving, and communication skills, the fest fostered teamwork and creativity. The event also marked the inauguration of 'Pinnacle', the department's non-technical magazine showcasing students' literary and artistic talents. TELEKINESIS 2025 was a resounding success, creating a vibrant platform for both technical excellence and creative expression

ANSYS Fluent Course organised by Chemical Engineering Department

The Chemical Engineering Department organized a Certificate Course titled "Computational Fluid Dynamics (CFD) for Chemical Engineers using ANSYS Fluent" from 16th to 20th March 2025. A total of 40 Third Year B. Tech students participated in the course. The course was conducted under the guidance of Prof. S. N. Derle and Prof. P. P. Joshi. Mr. Rohit Sangwan from ARK Solutions Delhi was invited as the resource person. The course enabled students to understand the fundamentals of CFD and perform fluid flow simulations using ANSYS Fluent.

Mecheaven 2025

Inauguration of Mecheaven2K25

Mecheaven, the esteemed annual technical fest of the Mechanical Engineering Department at was organized on 3rd and 4th March 2025. At its core, Mecheaven embodies a commitment to innovation and excellence, reflecting the institute's ethos. Participants engage in a range of competitions, from design challenges to Robotics Challenges, highlighting their skills and creativity. The fest also features an exhibition area where students present projects and research, connecting with industry professionals and bridging academia with the industry. This Year around 439 participants from KK Wagh Society and other colleges participated in various events such as चक्रव्यूह –The Files, Cad Master, Laser Maz, Business Plan, Product Design Quest, Quiz Master, Muscle Mania, Poster Presentation and Tug of War.

The ChemFest-2K25

Chemfest2K25, the esteemed annual technical fest of the Chemical Engineering Department at K. K. Wagh Institute of Engineering Education and Research, Nashik was organized on 3rd and 4th March 2025. The ChemFest-2K25 kicked off with an inspiring Inaugural Ceremony featuring Mr.

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Sonu Zunj, Director, SVAAR Process Industries, Nashik who brought a wealth of expertise from both academia and industry. He shared valuable insights into emerging trends in chemical engineering, highlighting the significance of interdisciplinary collaboration. Various technical events such as paper presentations, project expo, technical quizzes, cadmania and non-technical events such as treasure hunt, free fire, neon cricket, etc were held. The event was graced by esteemed judges: Dr. Sharda K. Patil, Professor, KK Wagh Sr. College, Saraswati Nagar and Dr. Dipak K. Chandre, HOD Chemical Engineering, SVIT Chincholi.

Organizing Team of Chemfest2K25

FORCE 2025

The Department of Civil Engineering organized a two-day National Level Technical Symposium, FORCE 2025, on the 3rd and 4th of March 2025. The symposium featured four technical events and seven non-technical events, including Cad-A-Thon, Survey Sprint, Bridge-O-Mania, Equilibrium, Quiz, Snap Hunt, Roadies, Whistle Squid, E-Sports, Rapid Chess, and Tug of War. These events were designed exclusively around civil engineering knowledge and activities. Each year, FORCE aims to create awareness about social issues. The theme of the event, *"Inspired by Nature, Engineered for the Future,"* focused on promoting sustainable and innovative engineering practices in building and infrastructure construction. The event provided participants with insights into various techniques and approaches used in green construction. These technologies and methods help minimize the environmental impact of buildings and infrastructure, ensuring they are both functional and eco-friendly. The technical event began with an inauguration ceremony, where the Chief Guest, Er. Manoj Kumar Dhokchaule, Executive Engineer, Water Resource Department, Nashik, and the Guest of Honour, Er. Ketan Pawar, Deputy Engineer, Water Resource Department, Nashik, graced the occasion. They were accompanied by the Principal, Prof. (Dr.) K. N. Nandurkar, Head of the Department, Dr. Pradip D. Jadhao, and all the staff members of the department. The technical event was a resounding success, with participants gaining valuable knowledge and experience and organizers receiving positive feedback. It provided a great platform for students to interact with industry professionals, learn new skills, and showcase their talents.


Inauguration of FORCE 2025

Achievements of students in project competitions

- Om Patil, from BE Computer Engineering selected in CodeVita Season 12 (2025), organized by TCS. Out of 537,000 registrations from 96 countries, he battled through two intense elimination rounds, securing a spot among the top 6,000 for Round 2. His exceptional skills and determination then moved him into the prestigious final round as one of the top 25 coders worldwide! Competing in the grand finale at the largest TCS campus in Chennai was a remarkable achievement.
- Aditya Nimase, Priyanka Patil, Tanisha Patole, Jayesh Patil from BE Computer received 1st prize in Poster Competition for BE Project held at Sandip Foundation guided by Mrs. S. K. Gondhalekar.
- Desai Pruthvij, Patil Om, Kapse Chaitali, Charak Mehul Singh from BE Computer received first prize for BE Project in Project Competition organized by JIT, Nashik guided by Ms. S. R. Badgujar.

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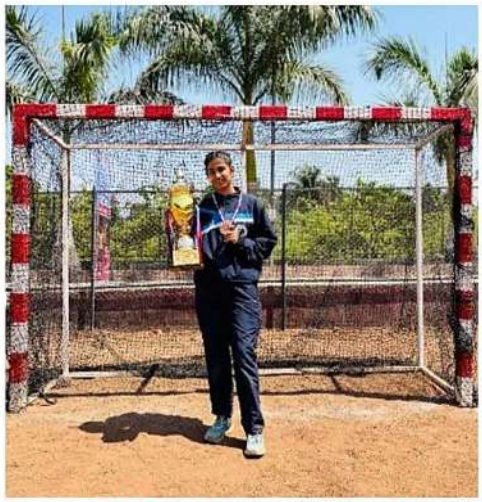
- Desai Pruthvij, Patil Om, Kapse Chaitali, Charak Mehul Singh received first prize of Rs. 50K for BE Project in Innovera – 2025 National Level Hackathon organized by KKWIEER, Nashik on 2nd March 2025.
- Mrunal Chetan Bagal, Pranav Anil Bijalpure, Rimzim Chark, Ishan Swapnil Dixit received first prize for BE Project at project competition organized by KNV Naik College of Engineering, Nashik guided by Ms. S. R. Badgujar.
- Team AGRO_MINDS, consisting of TY (E&TC) students, secured 1st place in the Embedded and IoT track at the prestigious RIT Hackathon 2K25, a national-level competition. The event was organized by Rajarambapu Institute of Technology, Rajaramnagar, Sangli, featured 160 participating teams, with 40 teams competing in the Embedded and IoT track.The project titled "Ideal Spraying Condition Detection in Farming" showcased innovation and technical excellence. The event was sponsored by BHARAT FORGE and IEEE. The team comprised Sriya Patil, Bhavna Kumavat, Anup Yeole, Aryan Shinde, Siddhesh Zalte, and Utkarsha Patil. The project was guided by Mr. Swanand Dongare.
- Team Medibites achieved an impressive World Rank 2 at the Technitude International Hackathon, organized online by SP Jain School of Management, Sydney, Australia. The team developed a GenAI-powered system featuring a user-friendly interface, adaptable for both restaurant menu-based online ordering and clinic doctor schedule-based appointment booking. Their innovative solution earned them a prize of $598 (₹50,000). The team members were:Ritesh Sakhare – E&TC, KKWIEER, Samyak Raka – CS, KKWIEER, Vedant Deore – AIDS, VIT Pune and Ritesh Borse – CS, KKWIEER.
- Team SPIRIT, comprising students from the Electronics and Telecommunication (E&TC) Department, achieved remarkable success at the Robo Sumo and Robo Soccer competitions held at Sardar Patel Institute of Technology, Mumbai, Maharashtra, on 23rd March 2025. The team members were Atharva Mayekar, Kanad Buwa, Harshvardhan Shah, Sanket Ghadge, Sarvesh Kshirsagar,and Chaitanya Patil.The team secured 2nd place in Robo Sumo, winning a cash prize of ₹5,000, and 3rd place in Robo Soccer, earning a cash prize of ₹3,000.

State Handball Championship

We are thrilled to announce that Miss Sadhana Dhondage, a 3rd-year B.Tech (E&TC) student, has brought laurels to the college by securing 3rd place in the 51st Senior Maharashtra State Women's Handball Championship, held in Nashik from 21st to 25th March 2025.



Expert Lecture/Seminar/Courses/Workshop Organized

- Electronics and Telecommunication Engineering Department organized following expert lectures and career guidance sessions in March 2025:
  - ▸ Department in collaboration with IETE organized a two days Hands on Workshop on "Implementation of Artificial Neural Network, Fuzzy Logic and Automotive Electronics applications using MATLAB " on 5th and 6th March 2025 for TY BTech (E&TC) students.
  - ▸ Department in association with IETE, organized a seminar on Career Opportunities in Industrial Automation by Mr. Santosh Binnor (MD, Visionary Technologies, Nashik) on 7th March 2025.
  - ▸ Department in collaboration with IETE organized an Expert talk on "Applications of Embedded Processors" on 22nd March 2025 for Third year & Second year (E&TC) students.
- The Mechanical Engineering organized following informative events in March 2025:
  - ▸ An expert talk on “Advanced Product Quality Planning” by Mr. Dattatray Patil on 7th March 2025.
  - ▸ An expert talk on “Challenges in Automobile Sector” by Mr. Dattatray Patil on 7th March 2025.
  - ▸ An expert talk on “Gas Turbine power plant” by Er. Mujtaba Umair Syed on 10th March 2025

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- Workshop on Creo Parametric by Mr. Mahesh Bankar, Design Engineer, Invensys CAD Solutions, Nashik was organized by the Mechanical Engineering Department on 11th and 12th March 2025.
- The Chemical Engineering Department organized following expert lectures and career guidance sessions in March 2025:
- Sharmishtha Joshi (Production Engineer, VIP Industries Nashik) has conducted an interactive session on "Chemical Engineer's Role in Production Industries" on 25thMarch 2025.
- Madhura N. Chincholi (Assistant Manager, Deepak R&D Centre Vadodara, Gujarat) has conducted an interactive session on "Pressure Swing Adsorption Applications inChemical Engineering" on 29thMarch 2025.
- The Information Technology Department organized following expert lectures and career guidance sessions in March 2025:
- An expert talk on "Understanding of Software Testing" on 20thMarch 2025. Expert talk was delivered by Mr. Dhanait Mahendra Madhavrao,ISTQB Certified Tester (Foundation Level), Winjit Technologies.
- An expert talk on "Entrepreneurship: Market Trends and Experience" on 6th March 2025. Expert talk was delivered by Mr. Sandeep Khode, CTO at Merren.
- An expert talk on "Startup Opportunity: Problem Identification, Market Size & Existing Customer Pains" on 4th March 2025. Expert talk was delivered by Mr. Purushottam Dike, with the expertise of a Site Reliability Engineer (SRE).
- The Department of Science organized an online expert talk on "The PageRank algorithm: How search engines find the best results" by Dr. Jatin Majithia (Head, Department of Applied Science and Humanities, Indian Institute of Information Technology, Pune) on 21st March 2025.

Expert Lecture/Seminar/Courses/Workshop Attended: -

- Computer Engineering staff Ms. M. P. Mahajan and Ms. A. R. Jadhav attended 5 days National Level FDP on Revolutionizing Engineering Education with AI: ML, DL, Generative AI organized by IT department of PCCOE, Pune from 24th March 2025 to 29th March 2025.
- Mechanical Engineering Staff Mr. Pawan Rahane attended a one-month Faculty Development Program (FDP) on 'Effective Engineering Teaching in Practice' in March 2025.
- Information Technology department head Dr. Mrs. Preeti Bhamre has been awarded a certificate of appreciation by MKCL for her dedicated efforts in the effective implementation of NEP 2020 through MKCL's Incredible Learning Innovations for Knowledge Empowerment (iLike) Courses.
- Ms. Nagma Kazzi has participated in the Short-Term Training Program (STTP) on "Ethical AI/ML for Innovation: Exploring Technologies and Applications", organized by the Department of Artificial Intelligence, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, India, held from 24th February to 7th March 2025.
- Ms. Ashwini A. Suryawanshi, Ms. Poonam L. Patil and Ms. Smita Chaudhari completed One Week Online Faculty Development Program on "Next Gen AI Skills : A Practical Approach for Educators" organised by Vishwakarma Institute of Technology from 24th March 2025 to 28th March 2025.
- Ms. Reena Johnson has participated in and successfully completed One-Week Online Faculty Development Program organized by Suman Ramesh Tulsiani Technical Campus, Faculty of Engineering, Kamshet, Department of Artificial Intelligence and Data Science, on the topic: "Harnessing Intelligence: Deep Dive into Machine Learning" from 10th to 14th March 2025.

Industrial Visits

SNo.	Company Name	Department	Class	Date
1	Radio Vishwas, Nashik	Electronics & Telecommunication Engineering	S.Y	06/03/2025
2	Centre of Excellence on Digital Technologies for Smart and Precision Agriculture at Mahatma Phule Agriculture University, Rahuri	Electronics & Telecommunication Engineering	TY	27/03/2025
3	VIP Industry Satpur, Nashik	Mechanical Engineering	SY A	17/03/2025
4	VIP Industry Satpur, Nashik	Mechanical Engineering	SY B	18/03/2025
5	Techeco, Waste Management LLP, Nashik	Information Technology	SY	04/03/2025
6	Abelin Polymers, Nashik	Chemical Engineering	SY	28/03/2025
7	Agri-search India Pvt Ltd. Dindori		TY	10/03/2025

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Training and Placements

SNo.	Company Name	Department Name	Placed Students
1	Stelmec Limited		08
2	Sunstream Green Energy Pvt. Ltd.	Electronics &	08
3.	Hyosung T&D India	Telecommuication	08
4.	Tube Investments of India	Engineering	01
5.	IReliance Industry Limited		01
6.	NxtCube	Computer Engineering	01
7.	Burns & McDonnell, Mumbai	Chemical Engineering	01
8.	Pristine IT Code Pvt Ltd	Information Technology	01
9.	NCR Atleos IT	Information Technology	01

Paper Publications/Presentations:

"Automatic Toe Angle Adjustment of Vehicles: A Comprehensive Review"

Mr. Pawan Rahane

(Published in an International Conference on Recent Trends in Engineering Science, Technology and Management (IC -RTETM – 2K25) on 06/03/2025)

Abstract: The toe angle automatic adjustment system has shown up as a ground-breaking technology in automotive engineering to improve the performance, stability, and tire life of vehicles. This review integrates the advancements in dynamic toe mechanis1ms within modern suspension systems, autonomous vehicles, and electric platforms. Technologies that allow for real- time modification for optimal vehicle handling and fuel efficiency include sensor-based control, electromechanical actuators, and artificial intelligence. Applications include of road systems, racing automobiles, and passenger cars. The advantages of these systems include improved cornering stability, reduced tire wear, and energy savings. Despite all these improvements, sensor calibration, cost of thesystem, and environmental durability are some of the persistent challenges. The paper reflects research trends such as the use of Al-driven predictive systems and adaptive controls for different terrains and highlights the gap in the study of long-term performance. Comparative analysis of the existing technologies indicates trade-offs between accuracy, cost, and implementation feasibility. A review of this nature is an insight into how automatic toe angle adjustment could be the answer to meeting the demands of modern automobiles.

Investigations into effect of waiting time in integrated machine scheduling and automated guided vehicles scheduling

K. C. Bhosale and P. J. Pawar

(Published in an International Journal on Interactive Design and Manufacturing (Springer), ISSN Number:DOI: 10.1007/s12008-025-02248-z)

Abstract: The Machine scheduling problems are solved to optimize the objectives of material flow time which depends upon processing time, setup time and material handling time. In a flexible manufacturing system, automated guided vehicles (AGV) are used for material handling from one machine to another machine. However, in most of the cases, machine scheduling problems and AGV scheduling problems are solved separately. Some authors have solved machine scheduling and AGV scheduling problems simultaneously, but they have considered a fixed number of AGVs. However, as the number of AGV increases, it will minimize the material flow time, but this will increase the idle time and cost of the AGVs. This material flow time will be stabilized after reaching a certain number of AGVs. Hence, this problem leads to identifying the optimum number of AGV required for the material handling system. In this paper, an attempt is made to identify the best sequence of operations of the products on different machines. From this sequence of operations of all the products, the processing time, sequence-dependent setup time, material handling time and waiting time will be calculated. Hence, in this paper, the objective function is set to minimize the material flow time which depends upon processing time, setup time, material handling time and waiting time. The Artificial Intelligence (AI) techniques used in this paper are (i) Metaheuristics and their applications in intelligent automation: discrete artificial bee colony algorithm (DABC) and (ii) Industrial experiences in the application of the above techniques, e.g. case studies of a flexible manufacturing system with AGVs for material handling. The discrete artificial bee colony (DABC) algorithm is applied on the case studies. There is around 10% improvement in the results obtained by DABC. The proposed approach thus can be effectively implemented to reduce the material flow time in industries such as automotive industries, electronics industries, and consumer goods manufacturing industries especially while operating in a flexible environment.

Prof. Dr. K. N. Nandurkar
PRINCIPAL