



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

June 2024

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TECHNICAL NEWS LETTER

■ **Congratulations!!!**



The annual college magazine HORIZON secured third position under Professional category at the university level for the academic year 2022-23. On behalf of the institute the award was received by Prof. Ms. Priti Vaidya (Coordinator), Prof. Ms. Sunila Gadi (Co-coordinator), Ms. Shivani Jadhav (Chief Editor), and Mr. Suraj Yeola (Editorial board member).

■ **Education Fair**



Visit by dignitaries at K. K. Wagh Stall

The K.K. Wagh Education Society participated at the Sakal Vidya Expo from June 14<sup>th</sup> to 16<sup>th</sup> June 2024. The event was inaugurated by Mr. Bhushan Pathak, Assistant General Manager and Head of Domestic Marketing at Graphite India Ltd., and attracted a large number of parents and aspiring students interested in engineering, diploma, agricultural, and pharmaceutical programs. The stall was also visited by notable personalities such as Mr. Sandip Karnik, Commissioner of Police at Nashik, and MLA Mrs. Seema Hire. Dr. Gaurav Daware, Chemical faculty worked as coordinator for the event

■ **Visit by Shri. Anil Bagane**



Felicitation of Shri Anil Bagane

On 14th June 2024, Hon. Shri. Anil Bagane, Executive Director of Sharad Institute of Technology College of Engineering Yadrav Ichalkaranji visited the AICTE IDEA Lab of K. K. Wagh Institute of Engineering Education and Research, Nashik. He was felicitated by Prof. K. S. Bandi Secretary KKWES. He appreciated all the facilities of the AICTE IDEALab and gave several suggestions on industry academia collaboration for the AICTE IDEA Lab.

■ **Skilling program for PREC Loni students**

KKWIEER-IDEA lab has completed a six days Skilling program from 24<sup>th</sup> to 29<sup>th</sup> June 2024. Total 12 students from PREC Loni actively participated in the program. Program was

intended to provide participants with knowledge about new technologies such as robot technology, 3D Printing, 3D Scanner, Laser Cutting, PCB designing, PCB milling and Arduino. Also, it provides opportunity to participants to work in team, build integrity and work in multi-disciplinary fields. Students are trained on various tools, machines and equipment in the AICTE IDEA lab by our AICTE IDEA lab gurus and student ambassadors. All participants prepared projects using advanced machines. The awareness program was coordinated by Dr. R. K. Munje and Ms. Pushpa R. Mogal.



Inauguration of skilling program

### International Yoga Day



International Yoga Day

As per the guidelines given by AICTE, International Yoga Day was celebrated in K.K.Wagh Institute of Engineering Education and Research, Nashik. On 21<sup>st</sup> June 2024 Principal Dr. K.N.Nandurkar along with Teaching and Non-Teaching staff of various departments participated in the session. Yog Prashikshak Mrs. Smita Jadhav from Yog Vidyadham Nashik demonstrated and explained the Yoga protocol. Under the guidance of Dr. K.N.Nandurkar, arrangements at Gymkhana were made by Shri. Sarang Naik, Shri. K.T.Shinde, and Shri. Satish Jadhav. Staff from other institutes in the campus also participated in the program.

### Visit by Leadership Team of IET



Felicitation of IET Leaders

Dr. Keshav Nandurkar, Dr. Ravindra Munje, Prof. Sudhir Shinde, Dr Prashant Kushare, Prof. Nayana Jangle and other members from K.K. Wagh Institute of Engineering Education and Research attended the Networking Dinner organized by the IET CCSA Meeting on 14th June 2024 at Courtyard by Marriott. Interacting with the IET Volunteers from other Local Networks was a great opportunity. During this interaction, Dr. Keshav Nandurkar felicitated Mr. Shekhar Sanyal, Head of IET India, Dr. Ravindra Munje felicitated Mr. R N Rajpoot, Past Chairman of IET CCSA and Dr Prashant Kushare felicitated Mr. Ajay Kulshreshth, BE CEng, Chairman of IET CCSA and Prof. Nayana Jangle felicitated Ms. Varsha Kothari, IET Bangalore office staff. The leadership team of IET also visited the institute on 15<sup>th</sup> June and appreciated the progress made by staff and students.

### Visit of ISRO Scientists



Visit of ISRO Scientists to KKWIEER Nashik

Team Matrix has recently excelled in the Rover Challenge, a prestigious competition organized by ISRO. The team has successfully passed the Quals-2 round and secured a place in the finals,  
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ranking among the top 10 colleges across India. On 7<sup>th</sup> June 2024 we were honoured to host esteemed ISRO scientists Dr. L. Ravi Kumar and Mr. N. S. Murali from Bangalore. They visited our institution for the evaluation of Team Matrix's rover. Director, Prof. Dr. K. N. Nandurkar, Head, Prof. Dr. P. J. Pawar and Prof. S.V. Panchawatkar were present during the interaction

**Faculty Development Program on International Business Simulation Using iBizSim**



FDP on International Business Simulation Using iBizSim

The Department of Robotics and Automation at KKWIEER recently organized a Faculty Development Program on International Business Simulation using iBizSim. The program was held on 14<sup>th</sup> June, and from 18<sup>th</sup> to 20<sup>th</sup> June, 2024, and featured Prof. Dr. Ashok N. Ullal as the resource person. Prof. Dr. Ashok N. Ullal, a distinguished academic with over four decades of experience, is renowned for his expertise in designing and developing the business simulation tool iBizSim. He is Professor Emeritus and former Dean of the School of International Business at Reutlingen University, Germany.

Under his leadership, the School of International Business, now part of the ESB Business School, consistently ranks among the top five business schools in Germany. Prof. Ullal has extensive experience teaching courses in Information Technology, Business Simulations, and Intercultural Communication and Negotiation. The programme was attended by 24 faculty members from different departments of the institute.

**Admission Awareness Program**



Guidance Session at Aurangabad

An admission counselling session was organized by K. K. Wagh Education society on 28 June 2024 at Ch. Sambajinagar. About 40 students and parents have participated in this session. On this occasion, Dr.P. J. Pawar provided information about K. K. Wagh Education Society and Prof. Suhas Pandit and prof. R. R. Khinde guided the participants about rules and regulations of engineering admissions for A. Y. 2024-25. Two students of K. K. Wagh IEER residing at Ch. Sambajinagar were also felicitated during this event for their campus selection in reputed industries.

A seminar on the admission process for Engineering, Pharmacy, and Agriculture courses was held at IMA Hall, Dhule, on June 29, 2024, from 5:00 PM to 8:45 PM. Led by Prof. (Dr.) P. B. Kushare (Mechanical) and Dr. A. C. Pawar (Applied Science), the seminar aimed to introduce our institutes and inform students about admission procedures and future opportunities. The event included presentations on the institutes, the admission process, and government scholarships, followed by a Q&A session. The seminar concluded with the felicitation of 10 final-year engineering students for securing placements. A total of 100 participants attended, with 55 students registering. Attendees expressed satisfaction and requested the continuation of such initiatives.

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Guidance session at Dhule



Felicitation of Placed students along with parents

A seminar on admission process was organized at Ahmednagar on 29<sup>th</sup> June 2024 for aspiring student for admission in Engineering, Pharmacy and Agriculture. Two alumni of Civil Engineering had also attended the program. Dr. Sunil Kute provided the information about K. K. Wagh Education Society, complete overview of the institute and various courses run by the institute. Dr Suyog Jain addressed the students and parents on Engineering form filling, options selection, categories, rounds of admission, different scholarships available from government, etc. Total students and parents attended the seminar were 40 and aspiring students registered were 26.



Guidance session at Ahmednagar



Guidance session by Dr. Suyog Jain

The First Year Engineering Admission Awareness seminar was conducted on 27<sup>th</sup> June 2024 at Buldhana. Dr. Ravindra Munje provided the complete overview of the institute and various courses run by the institute and Dr Vilas Patil provided information on FY Admissions and addressed all the queries of parents and aspiring students. A total of 60 participants were present for the seminar.



Guidance Session at Buldhana

### ■ Felicitation of Retired Staff



Felicitation of Retired Staff

The felicitation program was held on 29<sup>th</sup> June 2024. Following members who retired from the services were felicitated. Prof. Dr. K. N. Nandurkar appreciated the contributions of each staff member during their service over three decades and extended best wishes for their retired life.

1. Mr. R. Y. Murari (Officer Incharge)
2. Mr. Tanaji Kandekar (Physical Director)
3. Mr. Date V. K. (Electrician)
4. Mr. Baban Jadhav (Head Clerk)
5. Mr. Shivaji Mogal (Driver)

■ **Congratulations!!!**



Our student Riddhi Shinghavi of Second year A.I.D.S. once again bags Gold in Inter-University Roll ball tournament held at Sport University-Chennai. This is a moment of immense pride and Joy for all of us. This year she also participated in 2 open National tournaments and won Broze for her team.

Miss Riddhi Shinghavi - Gold Medal in Roll Ball

■ **Expert Lecture/Seminar/Courses/Workshop Attended:**

- The Department of Applied Science arranged a Grooming session and MS Excel training of students for Stock audit activity by CA Piyush Chandak and Mrs. Sonali Chandak on 29/06/2024 Saturday at 02:00 pm in JVN hall, E-wing 4<sup>th</sup> floor Computer Engineering Department.
- Computer Engineering Faculty Prof. S. K. Gondhalekar has attended One week FDP on Transformative Pathways: AI and Emerging Trends in Teaching and Research, Avantika University from 24<sup>th</sup> to 30<sup>th</sup> June 2024.
- Electrical Engineering staff Prof. N. N. Jangle and Prof. Ganesh Jadhav attended NEP 2020 Orientation & sensitization organized by Malviya Mission Teacher Training Program MMTTP by SPPU.
- Dr. Prashant Kumar has attended Symposium on “First UK-India Online OpenFOAM Symposium” organized by University of Birmingham and IIT Kharagpur from 07 June 2024 to 08 June 2024.
- Information Technology Departmental Faculty Prof. Yogita Algat attended NGP-DST Summer School Program on “Geospatial Technologies (Level-1)” from 27<sup>th</sup> May to 16<sup>th</sup> June 2024

organized by K. J. Somaiya Institute of Technology, Mumbai. The said program was supported by National Geospatial Program (NGP)-Department of Science and Technology, Government of India, New Delhi. Prof. Nagama Kazzi completed online course on “Python Fundamentals for Beginners” and “ChatGPT for Coders” conducted by Great Learning Academy.

- Robotics and Automation Faculty Prof. R. M. Chandramore has attended online course on “Exploring Perspective of AI and ML in Robotics and Automation” from 24<sup>th</sup> June to 28<sup>th</sup> June 2024.

■ **Training & Placement :**

Company Name	Department Name	Placed Students
Mahindra & Mahindra	Mechanical Engineering	18
	E& TC Engineering	12
Cappgemini	E&TC Engineering	07
	Artificial Intelligence and Data Science	06
CIE Automotive India	Mechanical Engineering	02
Tech Mahindra, Pune	Information Technology	03
	Artificial Intelligence and Data Science	07
DMCC Specialty Chemicals Limited, Roha	Chemical Engineering	03
Chemisight Consulting, Thane	Chemical Engineering	02

■ **Other Achievements:**

- Dr. Y.D. Bhise was invited as a Resource person at Rasbihari International School, Nashik on 28/06/2024 to guide students of 9<sup>th</sup> and 10<sup>th</sup> std. on the topic “Career Guidance and Interview Skills”.
- Dr. K. N. Nandurkar attended the one-day workshop on NEP 2020 implementation at MGV Art Science and Commerce College Nashik on 18<sup>th</sup> June 2024.
- Dr. K. N. Nandurkar was invited as panel member during the one-day HR Summit organized by AIMA at Hotel Express Inn Nashik on 14<sup>th</sup> June 2024.
- Dr K. N. Nandurkar was invited as panelist for the CII Vidarbha Industry Academia Conclave 2024 held at RTM university Nagpur on 22<sup>nd</sup> June 2024.



■ **Abstracts of papers presented during June 2024**

**Title: A comparative study on engine vibration reduction in ATV quad bikes through dampers with diverse materials and shapes.**

(Authors : Pankaj Beldar and NivruttiPatil.

Publication : Springer)

**Abstract:** This study addresses the vital role of engine dampers in reducing vibrations and enhancing ride comfort in quad bikes. Utilizing ANSYS modal analysis and CATIA V5 design, the research aims to optimize damper design by assessing natural frequencies and potential resonance in the cage structure and engine. Through extensive analysis, the study evaluates vibrations transmitted from the engine to the chassis, crucial for understanding and improving overall vehicle performance. Neoprene rubber emerges as the optimal material for vibration dampers, offering superior density, elasticity, stiffness, and damping coefficient. Comparative analysis reveals that Design 3 of the dampers significantly outperforms Design 2 and Design 1, showcasing a remarkable 62% reduction in vibration. However, the study underscores the influence of various factors, such as application specificity and vibration characteristics, on damper effectiveness. Thus, while Design 3 may excel under certain conditions, careful consideration of diverse variables is essential for optimal damper selection and performance across different engine types and operational context.

**Keywords :** Damper design, Structural optimization, Modal analysis, NVH, CATIA, Vibration, FFT analyzer

■ **Title : Evaluation of Activated Biochar from Sustainable Sterculia foetida Shells for the Removal of AB 158 Dye.**

(Authors : Yennam Rajesh and Neha Gautam.

Publication : Journal of Environmental Technology Vol. 13(2), 248-255 (2024))

The escalating concern over environmental pollution, particularly stemming from industrial effluents like textile dyes, has necessitated the development of sustainable wastewater treatment methods. This study focuses on utilizing agricultural waste, specifically *sterculia foetida* shells, to synthesize activated carbon for the removal of Acid Blue 158 (AB 158) dye from aqueous solutions. Through a comprehensive investigation, activated carbon samples were produced using various chemical activating agents and characterized using techniques such as BET surface area analysis, Fourier-transform infrared (FT-IR) spectroscopy, and scanning electron microscopy (SEM). Results indicate that the SFS-AC-K-13 adsorbent exhibited superior adsorption performance, with a maximum dye uptake of 388 mg/g and a removal efficiency of 97.89%, respectively. Equilibrium sorption data were analyzed using Langmuir and Freundlich isotherm models, with the Freundlich model demonstrating the best fit ( $R^2=0.9896$ ) to the experimental data. Comparison with literature values confirms the effectiveness of the synthesized adsorbent in AB 158 dye removal. Overall, this research contributes to sustainable wastewater treatment strategies and highlights the potential of agricultural waste-derived activated carbon for textile dye removal applications.

**Keywords :** Water treatment; *Sterculia Foetida* Shells; Acid Blue 158; Isotherms; Adsorption.



Rover Evaluation

Prof. Dr. K. N. Nandurkar  
PRINCIPAL

