



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

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■ Visit of Mr. Umesh Rathod



Mr. Umesh Rathod with Students at AICTE Idea Lab

Mr. Umesh Rathod, the Innovation Manager, Western Region AICTE visited our AICTE IDEA Lab on 8th July 2024. During his visit, Mr Rathod interacted with our talented students, providing them invaluable insights into innovation and industry trends. His words of wisdom and encouragement have truly inspired our budding engineers and innovators to push the boundaries of what's possible. We look forward to seeing the amazing projects and ideas that will emerge from this enriching experience.

A panel discussion was held in Seminar Hall, MCA Department which was moderated by Mr. Umesh Rathod. The panelist included Mr. Ajay Bohora (Credila), Mr. Shinde (TCS-DISQ), Mr. Harsh Deodhar (Entrepreneur), Dr. K. N. Nandurkar (Principal) and Mr. Anand Gharpure (Alumnus of K. K. Wagh Institute of Engineering Education & Research, Nashik). Various funding opportunities were discussed by panelists for new startups.

■ Anniversary of Late Philanthropist Ratansi Haridas Udeshi

Death Anniversary of Late Ratansi Haridas Udeshi (Kakuseth) was celebrated on 9th July 2024 in presence of Principal, Deans and Heads of Department by offering the garland to his photo and paying the homage to him. His contribution for development of educational complex was acknowledged by the members present.



Homage to Kakuseth Udeshi

■ Governing Body Meeting

Governing Body meeting of affiliated system was held on 13th July 2024 in hybrid mode. Shri. Ashokbhai Merchant joined online where as Mr. Ravi Mahadeokar, Shri. Shrikant Karode, Prof. Dr. G. V. Garje and Shri. Ajinkya Wagh attended the meeting in IQAC hall. Dr. K. N. Nandurkar presented the recent developments and achievements of staff and students. Dr. G. V. Garje appreciated the progress done on various fronts and appealed to increase the patent and IPR contribution.

■ Inauguration of Kaprekar Corner and MoU signing ceremony



Signing MoU with South Korea University

The Department of Applied Science and Mathematics inaugurated Kaprekar Corner and MoU has also been signed between K. K. Wagh Institute of Engineering Education and Research, Nashik and Sungkyunkwan University, South Korea on 4th July, 2024. This will help students to get better opportunities

for studies and internship options at abroad. Mr. Raghuvver Adhikari was the chief guest and Dr. R. N. Bulakhe was the Guest of Honor for the occasion. Dr. R. N. Bulakhe in presence of Dr. R. K. Munje visited the AICTE Idea Lab, and guided the students about the energy storage. This activity was coordinated by Dr. A.W.M.H. Ansari and Prof. Ms. A.L. Maurya under the Guidance of Dr. Sunil Kute, Dean Academics and Dr. Mrs. Anuradha Pawar, Head of Department of Applied Science & Mathematics, K. K. Wagh Institute of Engineering Education & Research, Nashik.

■ **Joint Anniversary Program**



Felicitation during Joint Anniversary programme



Joint Anniversary Program

Joint Anniversary Program was celebrated in the memory of Padmashri Late Karmaveer Kakasaheb Wagh, Late Kakusheth Udeshi and Late TatyasahcbBoraste on 22nd July 2024. Program was presided by Hon. Shri. Prakash Mate, Ex-Mayor of Nashik and Industrialist. Hon. Dr. Sudhir Tambe, Ex- MLA, Adv. Dilip Vanarase, Smt. Nilima Pawar and Hon. Shri. Rahul Dhikale, MLA Nashik were invited as a Guest of Honour for the program. All the guests were felicitated at the hands of Shri.

Sameer Wagh, Chairman, K. K. Wagh Education Society. All members recalled the contribution of three prominent leaders Padmashri Kakasaheb Wagh, Shri. Madhavrao Boraste and philanthropist Shri. Kakuseth Udeshi. They also appreciated the progress done so far and starting new courses in various fields for the benefit of the rural students.

■ **Interaction with Dr. Shiv Ganesh and Mr. Paul from USA**



Expert talk by Dr. Shiv Ganesh

Prof. Shiv Ganesh, Professor in Communication from UT Austin and Mr. Paul from USA visited the Institute on 23rd July and interacted with the faculty. Prof. Shiv Ganesh and Mr. Paul discussed strategies for improving student engagement and active participation in large classroom settings. Prof. Shiv Ganesh guided the faculty for publishing research papers in high-impact and competitive journals. Prof. K. S. Band, Secretary, K. K. Wagh Education Society, Nashik felicitated the guests.

■ **BoE Meeting**



BoE Meeting

On 31st July 2024, a meeting (Hybrid Mode) with the Board of Examinations (BoE) of distinguished external BoE members: Dr. Mahesh Kakade, Director of the Board of Examinations and Evaluation at SPPU, Mr. Hrushikesh Wakadkar, Director and Co-founder of eLuminous Technologies Pvt Ltd Nashik and Dr. Prakash Atkare, Senior Academician and former Registrar of Yashwantrao Chavan Maharashtra Open University (YCMOU).

The Board of Examinations meeting was highly productive, which provided essential directives and approvals crucial for the academic and administrative operations of our institute. The valuable insights and recommendations from the

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esteemed BoE members will undoubtedly contribute to enhance the quality of our examination processes and overall academic standards.

■ Congratulation



Felicitation of Dr. S. V. Kadbhane

Prof. Dr. Ms. Snehal V. Kadbhane, a faculty member of the Mechanical Engineering Department, was felicitated by Dr. Prakash Atkare, an senior academician and former Registrar of YCMOU, for being awarded a Ph.D. in Mechanical Engineering by Savitribai Phule Pune University. She has completed Ph.D. on the topic of "Analyzing the Performance of Twisted Tape Inserts for Enhancement in Heat Transfer Applications" under the guidance of Prof. Dr. D. R. Pangavhane.

■ Reliance Foundation Undergraduate Scholarship



Students who got Reliance Foundation Scholarship

Six students of first-year of K. K. Wagh Institute of Engineering Education and Research, Nashik have been selected for Reliance Foundation undergraduate scholarship. Pooja Deore of the Civil Department, Gaurav Mahajan and Akshada Vyavhare of the I. T. Department, Snehal Sanap

and Deepak Warude of the Computer Department, Shweta Yeola of the AIDS department will get financial assistance of Rs 2 lakh each during the engineering degree period through Reliance Foundation.

■ Farewell Program of Prof. Dr. Sharad S. Dhamal



Retirement of Dr. S. S. Dhamal

The farewell program of Prof. Dr. Sharad S. Dhamal was held on 31st July 2024 who retired after service of 32 years of exemplary service in the Department of Electrical Engineering. His significant contributions to the department's development and his unwavering dedication to teaching have left an indelible mark. The farewell was attended by esteemed guests including Hon. Principal Dr. Keshav Nandurkar, Dr. Sunil Kute, Dr. Bansidhar Kushare (joining online), Prof. Ashok Jain, and heads of various departments of the institute. Prof. Dr. K. N. Nandurkar appreciated the contributions of Prof. Dr. Sharad S. Dhamal during their service over three decades and extended best wishes to him for his retired life.

■ Empowering the Girl Students through Soft Skills Trainings



With the objective of empowering girl students, 36 hours of soft skills training for 6 days exclusively for girl students was organized from 2nd July to 9th July 2024 in K K Wagh in Association with Mahindra Pride. Through this, students were trained for Goal setting & Time Management, Critical Thinking, Professional Communication, Problem solving, Body Language & Professional Grooming, Digital Identity, Interview Preparation etc. Around 350

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girl students who will be appearing for their campus interview in this academic year 2024-25 are trained in this program in 5 Batches and are ready to face campus interviews. Students appreciated the program and expressed the satisfaction that they are now confident to participate in the campus recruitment process.

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

- Computer Engineering department organized Expert talk on “Linux Operating System” by Mr. Hemant Sonawane, ESDS Nashik on 15th July 2024.
- Mechanical Engineering Department organized Expert Lecture on Corporate social Responsibility and NGOs by Mahesh Rasal on 25th July 2024
- Electrical Engineering Department organized Expert Lecture on “Real World Applications of Coding” by Mr. Vikas Ranjit Singh, Founder, CoDing SeeKho for BE (A and B students) and staff of the department on 22/7/2024. Expert Lecture on “Electric Vehicles and Automation” by Mr. Shekhar Borse, CEO of the Borse Automotive pvt Ltd for TE Electrical Division: A and B students and staff of the department on 12/7/2024. Expert Lecture on “Control Panel Design” by Mr. Shrikant Jadhav, Senior Design Engineer. for TE (A and B students) and staff of the department on 19/7/2024. Department of Electrical Engineering has organized a “three-day technical training program, (3rd July to 5th July 2024) aimed at sharpening the skills and knowledge of our final-year students. The subject experts were Dr. Ravindra Munje, Prof. Nayana Jangle, Prof. Ganesh N. Jadhav, Prof. Sudhir Shinde, Prof. Atul Shewale, and Dr. Saravanan.S. Department of Electrical Engineering has organized a two-day Faculty Development Program (FDP) aimed at enhancing the teaching methodologies and curriculum delivery for our esteemed faculty members from 5th July to 6th July 2024. Department of Electrical Engineering has organized a “Transformative Employability Skill Training Program” Supported by Mahindra Rise and Implemented by Naandi Foundation, held from July 2nd to July 7th, 2024.
- Department of Electrical Engineering has

organized a “Training on Software Programming” conducted by professionals from CoDing Seekho Institute from 11th July to 16th July 2024.

- Electronics and Telecommunication Engineering Department organized Expert talk on "Micro python Basics" by Dr. Pravin Wankhede (Associate Professor, CSMSSChh. Shahu College of Engineering, Chhatrapati Sambhajnagar) on 20th July 2024. Expert talk on "Project Selection Guidelines" by Er. Jagdish Ugale (Deputy Manager R&D, Thermo Fisher Scientific) was conducted on 27th July 2024. Expert talk on "Current trends in Industrial Management" by Mr. Shekhar Paranjpe, Freelancing consultant and Industrial Expert, Nashik was conducted on 27th July 2024.
- Civil Engineering department has organized expert lecture on “Stress management by YOGA” by Abhishek Kale on 20th July 2024. Expert lecture on Highway Engineering was delivered by Er. Vijay H Kotecha on 23rd July 2024.
- Chemical Engineering Department organized expert lecture “Overview of chemical process industries” by Mr. Girase Tajas, Val organics Pvt. Ltd., Gujarat, India on 15th July 2024. Expert Lecture on “Design of Distillation Column” was delivered by Mr. Ketan More, General Manager - Sales & Marketing, SVI Carbon Pvt Ltd, MIDC Satpur, Nashik on 18th July 2024. Counseling Session for S.Y. B.Tech Students was delivered by Dr. Pratibha Chandak, Counsellor, K. K. Wagh Institute of Engineering Education and Research, Nashik on 20th July 2024. Expert lecture on “IPR: Patent Law and Procedure” was delivered by Mr. Santosh Sangle, Co-Founder and Partner, Legismith Partners LLP, Pune on 20th July 2024. Guidance session on Gate Preparation was conducted on 23rd July 2024 by alumina, Sushant Shelke, who is pursuing his M.Tech at IIT Bombay. Guidance session on various roles of Chemical Engineer in chemical industries was conducted by Mr. Ganesh Sapariya, Emerson Measurements SSP Ltd. Nashik on 29th July 2024.

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- Dept. of Information Technology has organized a session on “Salesforce Overview and Pathways” by Mrs. Gayatri Goda, Solutions Architect, Juniper Networks, California, USA on 19th July 2024. The guidance session on “Full Stack using JAVA” was conducted by Mrs. Manjusha Suryawanshi- Shirsath Software Engineer, Code CADD Tech., Nashik on 24th July 2024. A session on “The Future of CRM: Advanced Salesforce Administration Techniques” was conducted by Mrs. Ashwini Jadhav, Associate Consultant, Infosys Ltd., Pune on 26th July 2024.
- Department of Applied Science arranged Expert lecture on “Sub-Digital Transformation” by Mr. Anil Pagar Director Invensys CAD solution, Nashik on 29th July 2024.
- Artificial Intelligence and Data Science department has organized expert lecture on “Cyber security in IIOT thorough cyber-Ambassador” by Hritik Mishra on 23rd July 2024.

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

- Computer Engineering Faculty S. R. Badgujar, C. R. Patil, S. K. Gondhalekar have attended Five Days International Virtual FDP on "Exploring New Frontiers in Teaching Tools, AI and Data Analytics" organized by MEASI Institute of Information Technology, Royapettah, Chennai from 29th July to 2nd August 2024. STTP on Blockchain Technology was attended by C. R. Patil, S. K. Gondhalekar from 15th to 20th July 2024.
- Mechanical Engineering Faculty Prof. M. R. Pardeshi has attended AICTE QIP PG Certification Program on Additive Manufacturing and 3D Printing from 10th July to 24th July 2024.
- Electronics & Tele Communication Engineering Department Faculty Dr. D. M. Chandwadkar, Dr. S. P. Ugale, R. V. Chothe and S. V. Shelke have attended NEP 2020 Orientation & Sensitization Programme from 18/06/2024 to 26/06/2024. Prof. S. V. Shelke has attended FDP on Advancement on Deep Learning from 22/07/2024 to 26/07/2024.
- Chemical Engineering Faculty Dr. Yennam Rajesh has attended FDP on Advances in

Material Characterization and Data Processing (AMCDP-2024) at Anurag University, Hyderabad, Telangana from 15-07-2024 to 20-07-2024.

■ **Training & Placement :**

Company Name	Department Name	Placed Students
FinIQ Consulting India Pvt Ltd., Singapur	Information Technology	02
	Computer Engineering	13
Sharda Motors, Nashik	Mechanical Engineering	02
Arees Softwares, Nashik	Computer Engineering	07

■ **Industrial Visit**

Sr. No.	Company Name	Department	Class	Date
1	GMRT, Khodad, Pune	E&TC	Third Year	19/07/2024
2	Armstrong Dematic	Electrical	Final Year	26/07/2024

■ **Other Activities:**

- Dr. K. N. Nandurkar and Mr. Ajinkya Wagh attended the session on “Skill Development with Industries” at Hotel SSKSolitaire Nashik on 26/07/2024. It was organized by MCCIA with Mr. Tiwari Secretary, Ministry of Skill Development Govt. of India as Chief Guest.

■ **Abstracts of papers presented during June 2024**
Title: Chemical Route Synthesis of Nanohybrid Mo-V Oxide and rGO for High-Performance Hybrid Supercapacitors

(Author : Dr. A.C. Pawar

Publication : Energy & Fuels, ACS Publications)

Abstract: High-performance hybrid supercapacitors (HSCs) have been developed by combining two different electrode materials with wide potentials and long cycling stabilities. To develop high-performance HSCs, molybdenum vanadium oxide (MVO) was hybridized with graphene oxide (GO). The system of hydrothermal chemical pathways was used to synthesize the MVO/rGO (MVOG) nanohybrid material. The optimal MVOG achieves the highest specific capacity of 714.85 C/g compared to the bare MVO of 270.73 C/g at a sweep rate of 2 mV/s. The HSC was fabricated with two electrodes, namely, optimal MVOG and rGO as cathode and anode, respectively. The HSCs exhibit a maximum capacity of 185.06 C/g, with an operating potential of 1.5 V in 2 M KOH, with a maximum

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energy and power density of 38.55 Wh/kg and 2434.38 W/kg, respectively. The investigation conducted in this study reveals that the hybridization of MVO with GO enhances the physiochemical and electrochemical properties. The prepared MVOG electrode shows a 3-fold increase in supercapacitive efficiency compared to the MVO electrode. Different nanohybrids using ternary metal oxides with rGO can be developed by the same chemical route and hybridization method.

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

(Author : Dr. G. B. Dabhade

Journal : Journal of Environmental Nanotechnology)

Abstract: 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.

■ **Title: Development of Interactive Framework of Aviation Part Task Trainer (Aptt) for Supersonic Fighter Aircraft**

(Author: Prof. Dr. D.M. Chandwadkar, Prof. Dr. (Mrs.) Sunita P. Ugale

Published in Journal of Aerospace Sciences & Technologies, Vol. 76 No.3)

Abstract: In commercial, military and general aviation, safe and effective training is the important requirement, which is achieved through an Aircraft Part Task Training device (APTT). Compared with the live training, the most significant benefits of ground training is improved safety and the reduced cost of a pilot training process. Flight simulation is a multidisciplinary subject that relies on several research disciplines which have a tendency to be investigated separately and in parallel with each other. This manuscript presents a comprehensive overview of the research work done within the APTT. The development of an interactive framework for Aviation part task trainer is discussed in detail. The interactive graphics display is interfaced with different pilot controls such as throttle, pedal and control stick. The acquired data is processed and displayed on multifunctional display, giving the feel of flying in the aircraft. Thus the pilot can be trained on ground reducing the risk. Graphic symbols are prepared using OpenGL software. LAN connection is established using a socket program in C and MATLAB aerospace toolbox is used for taking the input through a joystick.

Keywords: Flight Simulation, Training Devices, Ground Trainers, Fighter Aircraft

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PRINCIPAL

