TECHNICAL NEWS LETTER

■ Joint Anniversary Program

Joint Death anniversary Program on 22nd July 2023

Joint Death anniversary of Late Padmashree Kakasaheb Wagh, Late Tatyasaheb Boraste and Late Kakusheth Udeshi was organized in the institute on 22nd July 2023. For the program Chief Guest was Hon Satyajeet Tambe (MLC, Graduate Constituency Nashik Region) and Chairperson was Hon. Shekhar Gaikwad (Former Ex Sugar Commissioner, Government of Maharashtra). Hon Chairman of K. K. Wagh Education Society Shri Sameer Wagh felicitated both the guests. They appreciated the development of K. K. Wagh Education Society. For the program Smt. Nilimatai Pawar (Ex. Sarchitnis, MVP Nashik), Shri. Manikrao Boraste (Ex. Chairman, Niphad Sugar Factory), Trustee Shri. Changdevdada Holkar, Trustee Smt. Shakuntalatai Wagh, Mr. Ajinkya Wagh, Secretary Prof. K. S. Bandi, Principal Dr. K. N. Nandurkar, all Principals, Heads of department and staffs of various Colleges of K. K. Wagh Education Society were present.

■ Meeting with Hon. Vivek Sawant on implementation of NEP

Meeting with Hon. Vivek Sawant was held on 15th July 2023. Chairman, Shri. Sameer Wagh felicitated to Hon. Vivek Sawant on this occasion. Hon Vivek Sawant guided all Deans and Heads of departments for preparing F. Y. B. Tech Syllabus structure for implementation of National Education Policy. Principal Dr. K. N. Nandurkar, all Deans and Heads of departments were present for the meeting.

■ Visit of Hon. Shri. Amrut A. Bang

Visit of Hon. Shri. Amrut A. Bang

Hon. Amrut A. Bang (son of Padmashri Dr. Abhay Bang and Mrs. Rani Bang) visited our institue on 12th July 2023. He was felicitated at the hands of Principal Dr. K. N. Nandurkar. Hon Amrut A. Bang interacted with students on topic " Importance of Social service in Life". Dr. Prasad Sonawane, Director, Maratha Vidya Prasarak, Nashik was also present on this occasion. Shri. Amrut Bang appealed all students to check the application form for NIRMAN programme and try to understand their mission for life.

■ Project cum contest for F.Y.B.Tech.students

The Department of Applied Science in association with AICTE-IDEA Lab of K. K. Wagh Institute of Engineering Education and Research organized F.Y. B.Tech. project Exhibition cum contest on 17th July 2023. On the inaugural occasion of the competition, Chairman Hon. Sameer Wagh, Shri. Ajinkya

Wagh, Principal Dr. K. N. Nandurkar and Mr. Shrikant Karode were present. Chairman Hon. Sameer Wagh interacted with the students and appreciated their skills and hoped that with the help of the reasoning and technology of the emerging generation, these students will find effective solutions to many problems in the future. Mr. Shrikant Karode, Prof. N. M. Shahane, Prof. G. B. Katkade, Prof. Vishal Shinde and Dr. Sharda Patil were the judges for the contest. Dr. G. B. Dabhade and Prof. M. J. Kshirsagar coordinated this event under the guidance of Dr. Mrs. A. C. Pawar, HOD., Applied Science.

participants with new technologies such as robot technology, 3DPrinting, 3DScanner, 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. School teachers are trained on various tools, machines and equipment in the AICTE IDEA lab by our AICTE Idea lab gurus and student ambassadors. Using advanced machines participants had prepared project such as cell structure, smart lamp. The awareness program was coordinated by Dr. G. B. Daware and Prof. S. S. Kahandal.

Hon. Chairman Shri. Sameer Wagh and Mr. S. R. Karode (Chief guest)

Group Photo graph of school teachers awareness program

CII CEO Connect Program

CII- CEO Connect program was organized in our institute on 28th July 2023. The Chief guest was Mr. Manish Aggrawal, Joint Managing Director & CEO, Rothe Erde India Pvt Ltd. The topic of the talk was Gap between requirements and Availability for third and fianl year students from Mechanical, Electrical and Robotics & Automation department. Principal Dr. K. N. Nandurkar felicitated to Chief Guest on this occasion.

Homage to Late Shri. Kakusheth Udeshi

Celebration of Death anniversary of Late Kakusheth Udeshi

The death anniversary of Late Kakusheth Udeshi was observed in the institute on 9th July 2023. Principal Dr K. N. Nandurkar and other members paid their tribute to the departed soul on this occasion. Members present remembered the contribution of Late Shri. Kakuseth by giving the land of 22 acres to K. K. Wagh Education Society, Nashik

CII- CEO Connect program

A Six Days school Teachers Awareness Program

KWIEER-IDEA lab organized six days School teachers awareness program from 17th to 22nd July 2023. Total 20 teachers from various schools of Nashik region actively participated in the program. Program was intended to provide

Lecture on NEP Implementation

Talk on "Awareness about NEP 2020" was organized by Prof. Dr. S. S. Sane, Dean (Administration) and Head of (Computer Engg, AI-DS and CSD) to students and staff on July 28, 2023. Also Online Quiz on NEP Awareness through Google form was organized by NEP Cell of our institute for staff and students.

Talk by Prof. Dr. S. S. Sane, Dean (Administration)

■ External Scholarship awarded to around 24 Students of Institute

Sr. No.	Sponsoring organization	Scholarship Amount and number of students
1	Neeraja Foundation	Rs 397584.00 for 10 students
2	Ekam Foundation, Mumbai	Rs 250000.00 for 05 students
3	Reliance Foundation	Rs 1200000.00 for 06 students
4	ABB	Rs 840000.00 for 03 students

■ Expert Lecture/Seminar/Courses/Workshop organized:

- Computer Engineering department organized Panel Discussion on "Carrier Opportunities in Computer Engineering, Artificial Intelligence and Data Science & Computer Science and Design" by Mr. Abhishek Agrawal, Mr. Anand Mahuli, Mr. Swaraj Joshi and Ms. Mahima Gaikwad on 15th July 2023.

- Electronics and telecommunication department organized Workshop on "Simulink, Simscape Stateflow and MBD" by Mr. Kunal Khandelwal on 27/07/2023.

- Mechanical Engineering department organized expert talk on "Industrial Challenges in Product Design & Career opportunities" by Mr. Suyog Vispute on 12/07/2023.

- Electrical Engineering Department organized Expert Lecture on "EV Technology, Policies and Start Ups" by Ms. Priyanka Gadakh, Senior System Engineer, Blue binaries Engineering & Solutions Pvt Ltd., on 22/07/2023, Expert Lecture on "Control Panel Design" by Mr. Shrikant Jadhav, Senior Design Engineer on 28/07/2023 and an Online Panel Discussion on 'Scope and Career Opportunities" by Shri. Sharad Jha, Shri. Prasad Patil, Shri. Pankaj Patil, Shri. Pravin Hunure, Ms. Sukhada Raut and Ms. Surabhi Sabale on 01/07/2023. Same department also completed 30 hrs Certificate Course on "C and C++ Programming" in association with Coding Seekho Institute, conducted from 12th to 17th July 2023.

- Chemical Engineering department organized expert talk on "Guidance on Future Career Paths in Chemical Engineering" by Mr.

Mahesh Naik, Sr. Manager- Production, Lupin Ltd., Tarapur, Boisar on 25/07/2023 and an Expert Talk on occasion of World Population Day on 11th July 2023 by Mr. Vishva Dagalla, Rotaract Club, Lala Lajapatrai College, Mumbai.

- Dept. of Information Technology organized a workshop on "Startup Ecosystems" by Mr. Harsh Deodhar, Serial Entrepreneur, Venture Partner, Consultant and Faculty mentor on 17th July 2023.

■ Other Achievements

- Principal Dr. K. N. Nandurkar was invited as a panelist for webinar on 31st July 2023. The topic was Impact of Generative AI on Skills and Future Jobs in Higher Education.

- MoU was signed between Aarya Innovtech Pvt Ltd., Nashik and our institute on 27th July 2023 with an objective to provide internship for the students. Also an MoU was signed between Yi (Young India), an association of CII and our institute on 31st July 2023 with and objectives to conduct the activities for enhancing students skills

■ Congratulations !!
Principal Dr. K. N. Nandurkar is being appointed as a Coordinator for Production & Industrial Engineering - Board of Studies (BOS) under SPPU.

■ Congratulations !!
Dr. V. K. Patil (Associate Professor of Civil Engineering) is being co –opted as a member on Civil - Board of Studies (BOS) under SPPU.

■ Congratulations !!

Prof. Dr. Ganesh B. Dabhade (Applied Science department) awarded "State Level Best Teacher Award" by All India CC and Brik Human Rights Mission, India

K.K. Wagh Institute of Engineering Education and Research, Nashik.

TECHNICAL NEWS LETTER : July - 2023

■ Congratulations !

Mr. Tarle Roshan Balasaheb (BE Electrical) awarded various prizes as University Topper (April/May 2021), Mrs. Manisha Raghunath Joglekar Prize, Late Mahadeo Ramchandra Bhise Prize, Principal G. K. Ogale Memorial Prize and Shri. Vasant Vinayak Deodhar Memorial Prize

■ Congratulations !!

Team Nikola Racing has received 1st Prize of Rs. 75000/- for the overall performance Award at the SAEISS Dr. G. Padmanabham Memorial Electric Two Wheeler Competition 2023 conducted at Chennai.

■ Abstracts of papers presented during July 2023
Chronic kidney disease prediction by using logistic regression and random forest model

Hariom Bade (BEIT), Abhishek Bandwal (BEIT), Suraj Gore (BEIT), Yash Harne (BEIT) & Prof. Dr. Preeti Bhamre

Abstract: Chronic Kidney Disease (CKD) is a global health problem with a high morbidity and mortality rate. In such a disease, there are very few symptoms at an early stage; however, as time passes, the disease results in several damages. Early detection of CKD enables the patient to receive timely treatment and gives them a chance to minimize the damage. The proposed project aims to use a combination of Logistic Regression and Random Forest algorithms for detecting CKD. According to the literature survey, the combination of Logistic Regression Random Forest yields the best accuracy. Voting classifier is used to ensemble both the algorithms. Hence, machine learning methodology is employed, and the CKD dataset from the University of California Irvine (UCI) is used for training and detecting CKD in the early stage.

Index Terms: Chronic Kidney Disease, Logistic Regression, Random Forest, KNN

Intrusion Detection in the Digital Age: A Hybrid Data Optimization Perspective

Prof. Pragati V. Pandit (Published paper in International Journal of Intelligent Systems and Applications in Engineering (IJISAE), Volume 11, No 7, July 2023, ISSN No.: 2147-6799)

Abstract: The ever-growing use of technology has resulted in a considerable rise in the total number of cyber threats and security breaches. Intrusion detection systems (IDSs) have become an crucial tool in combating these threats by detecting and preventing unauthorized access to computer systems and networks. In this research paper, we present a hybrid data optimization perspective on intrusion detection in the digital age. The importance of IDS cannot be overstated in the current digital landscape. With the increasing sophistication of cyber threats, traditional intrusion detection methods may prove insufficient. A hybrid approach that combines the strengths of multiple algorithms can lead to improved accuracy and reduced false alarms. In our research, we use a hybrid feature selection approach that combines genetic algorithms (GA) and random forest (RF) to choose the most important characteristics for the purpose of intrusion detection. The proposed hybrid approach to detecting intrusions has been shown to significantly improve the system's accuracy compared to the use of both RF and GA alone. We performed a comprehensive evaluation of the three algorithms, namely the SVM-RF, the support vector machine (SVM) and the random forest. Our research provides a valuable contribution to the field of intrusion detection by presenting a hybrid data optimization perspective that can significantly improve the accuracy of intrusion detection systems. This work can be used as a reference for future research in the area and can be applied in real-world intrusion detection systems to provide better protection against cyber threats.

Index Terms: Intrusion detection system, cyber-attack, threat, security, Machine learning

Prof. Dr. K. N. Nandurkar
PRINCIPAL