



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

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■ Interaction with Hon. Vivek Sawant



Interaction of Hon. Vivek Sawant on NEP 2020

Hon. Vivek Sawant (Chairman of our Advisory committee) visited our institute on 6th December 2020. He was felicitated at the hands of Hon. President of K. K. Wagh Education Society Shri. Balasaheb Wagh. Hon. Vivek Sawant interacted with all staff of K. K. Wagh Education Society on National Education Policy (NEP 2020). He explained nicely about the various points of NEP 2020 and what planning needs to be done accordingly by various institutes of K. K. Wagh Education Society. For the meeting Hon. Trustee Shri Sameer Wagh, Secretary Prof. K. S. Bandi, Principal Dr. K. N. Nandurkar, Mr. Ajinkya Wagh, all Principals and Heads of

department and staff of various institutes of K. K. Wagh Education Society were present.

■ Online Industry Institute Interaction Organized by NIPM



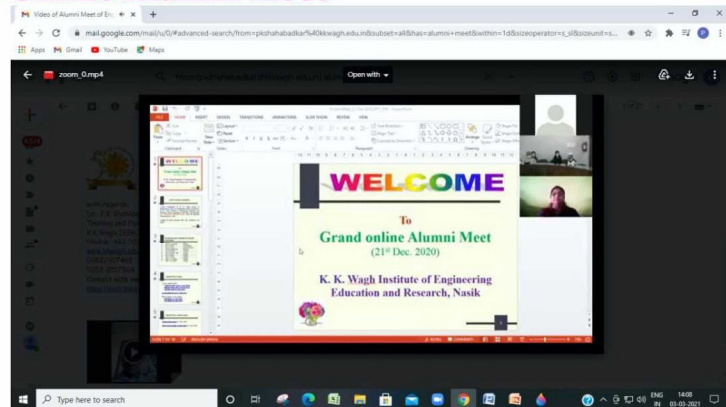
Online Industry Institute Interaction

Our institute in association with National Institute of Personnel Management (NIPM) organized Industry Institute Interaction on 4th December 2020. For this meeting around 392 participants through zoom link and 609 participants through facebook live were present. The aim of organizing this interaction was Placement of the students. This discussion was focused on what are the challenges for recruitment and opportunities for improving students placement in industry. For this meeting President of various Educational institutes, Directors, Managing Directors of industries and their representative were present. Industry leaders appreciated the efforts of Educational Institutes for providing Technical Manpower. The Industry leaders Mr. Sanjay Wadhwani (ONGC), Mr. Manoj Rajimwale (CHRO, Endurance Group Aurangabad), Dr. Santosh Bhawe (Bharat Forge, Pune) and Mr. R. Mohan Das (Coal India Ltd. Calcutta) expressed their thoughts. For this meeting Chairman of K. K. Wagh Education Society Shri. Balasaheb Wagh,



Trustee Shri Sameer Wagh, Principal Dr. K. N. Nandurkar and TPO Dr. P.K. Shahabadkar were present. Meeting was coordinated by Mr. Shridhar Vyavhare.

Online Alumni Meet



Online Alumni Meet

An annual Alumni meet of year 2020 was organized by 'Alumni Association of K.K.Wagh Institute of Engineering Education and Research Nashik.', on 21st Dec. 2020 in an online manner. About 300 alumni participated in this event. President of K. K. Wagh Education Society Hon. Balasaheb Wagh presided over the function. Trustees of K. K. Wagh Education Society Hon. Changdeorao Holkar, Hon. Ashokbhai Merchant, and Hon. Sameer Wagh graced this occasion by their presence. Prof. Dr. K. N. Nandurkar (Principal, K.K.Wagh Institute of Engineering Education and Research) delivered the welcome speech and provided information about various activities carried out by the institute. Chief Guest of the function and Ex-Principal of K. K. Wagh Institute of Engineering Education and Research Dr. V. D. Barve expressed his views and guided about the further progress of the Society. Dr. P. J. Pawar presented an overview of activities of alumni association. Alumni of Institute Dr. Manoj Mandlik (General Manager, R &D, TDK Electronics), Shri. Aniket Bagade (Director, A. B. Association), Shri. H. Chakrapani (General Manager, Future Retail Ltd.), Shri. Shram Krishnan, Shri. Sandip Shukla (Farm Lab I. Pvt. Ltd) also expressed their views. All alumni members in their speech gratefully admitted that K. K. Wagh Education society has a valuable share in their upbringing. They assured to cooperate in various ways for the progress of the society. In his Presidential speech, Hon. Shri. Balasaheb Wagh addressed the gathering by sharing new thoughts of energy while inspiring the youth. He also appealed all alumni to strengthen the relationship between institute and alumni. Mrs. Swati Pawar did the compenng. Dr. P. D. Dhake proposed vote of thanks.

Online Counseling session for FE Aspiring Students

Online Counseling session for FE aspiring students was organized on 11th December 2020 on Zoom platform. On this occasion Principal Dr. K. N. Nandurkar presented the information about the K. K. Wagh Education Society and Engineering College. Prof. Dr. D. M. Chandwadkar (Head of E & TC department and Dean, Admission) presented the information related to Engineering admission process. The students were very attentive & keenly listened to the presentations. After the presentation the queries of the students were answered. For the session Heads of department, all staff and aspiring students were present.

Counseling Session for Direct Second Year Degree Admission Process

Online Counseling session for Direct second year aspirants

Online Counseling session for Direct second year aspirants was organized by K. K. Wagh Polytechnic on 16th December 2020. In this session welcome and preamble was done by Prof.

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P. T. Kadave, Principal K.K.Wagh Polytechnic, Nashik. Principal Dr. K. N. Nandurkar gave introduction of K K Wagh Education society and KKWIEER, Nashik and guided students. Dr. V. K. Patil, Associate Professor, KKWIEER, Nashik explained in detail “How to fill option forms and Care to be taken while selecting colleges”. In question and answer session Dr. D. M. Chandwadkar, Dr. V. K. Patil and Prof. Ganesh Jadhav guided students.

National Mathematics Day



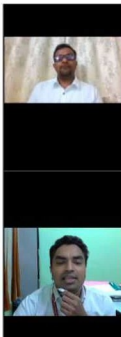



Online Celebration of National Mathematics Day
 On the occasion of Birth Anniversary of Great Indian Mathematician “Sir Srinivasa Ramanujan” was celebrated as “National Mathematics Day”, Department of Applied Science & Mathematics of our institute organized an online expert lecture by Prof. Dr. A. P. Hiwarekar, Professor & H.O.D, General Science VPKBIET, Baramati on “Recent Application of Mathematics in Engineering”. The lecture was graced by presence of Principal Dr. K. N. Nandurkar, Prof. & H.O.D. Dr. S. N. Kadlag and all First Year Faculty Members. The Lecture was hosted and anchored by Prof Bhatia R. R. Dr. A. P Hiwarekar discussed many applications of mathematics in engineering as well as in his PPT he presented a module discussing Covid -19 analysis using Mathematics. Over 200 participant attended the lecture. Participant actively attended the lecture and raised queries like use of Mathematics in field of Material Science and Artificial Intelligence which were answered by Dr. A. P. Hiwarekar.

Expert Talk On “Uploading courses on UdeMy” by Mr. Piyush Dave

Prof. Piyush Dave has conducted an online session on 'Developing an Online Course on UdeMy Platform' for faculty members of the K. K. Wagh Institute of Engineering Education and Research

and other committee members of the Private University. Total 396 faculties registered for the session and 381 faculties attended the same. Objectives were to (1) provide a concise overview of developing/creating an online course on UdeMy Platform, (2) introduce various steps involved in it as an instructor, (3) help faculties to identify promising (sellable) course areas/titles and upload it and (4) clear all the doubts related to it. Principal Dr. K. N. Nandurkar gave welcome address on this occasion.

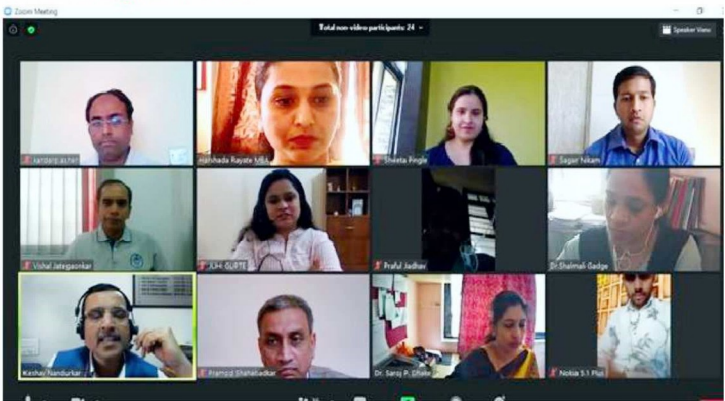




Online Course Creation Pathway	
Piyush Dave	
Professional Trainer for Python, Data Science, AI, Machine Learning	
Algo Trading Professional	
mhmeducations.com	

Expert talk by Mr. Piyush Dave

Online pannel discussion organized by MBA department



Online Panel discussion by MBA

Department of Management Studies organized Panel Discussion on “Scope, Opportunities and Career in Management” on 5th December 2020. Ms. Shweta Pingle, (HR Consultant and Corporate Trainer, Momentum Training & HR Consultancy), Mr. Asher Kanpard (Assistant Vice President, BATA India Ltd), Ms. Juhi Gupte (Recruitment Lead, India Saksoft Ltd), Mr. Vishal Jategaonkar (Centre Director, T.I.M.E) and Mr. Sagar Nikam (Founder Director, Excellence Learning Centre) were the panelist who guided MBA Aspirants for the taking management as their career. Panel enlightened MBA aspirants with the scope and opportunities for management students in future. They also discussed post COVID-19 demand of management students in market.

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■ Visit of Dr. Swapan Ghosh

Dr. Swapan Ghosh (Retired Chemical Engineer from Reliance Industries) visited our institute on 3rd and 4th December 2020. He visited to Engineering College Campus, DGP Nagar Campus, Saraswati Nagar Campus on 3rd December. On 4th December he visited Kakasaheb Nagar Campus, Bhausaheb Nagar Campus, Pimplus and Chandori College Campus. He appreciated the development of K. K. Wagh Education Society. Meeting with staff of Chemical Engineering was organized on 4th December afternoon during which he guided on various points related to Innovation center lab of Chemical Engineering and final year projects of Chemical Engineering students.

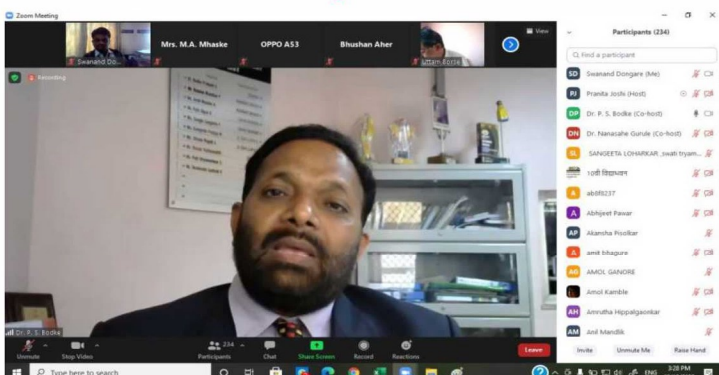
■ Online Panel Discussion by MCA



Online Panel discussion by MCA

Department of MCA organized Online Panel Discussion on “Scope and Career Opportunities after MCA” on 4th December 2020. Total 103 participants attended this Panel Discussion from Nandurbar, Chalisgaon, Aurangabad, Jalgaon, Amadhnagar, Dhule and Nashik. The Panelist were Mr. Sumit Chourasiya from Infosys, Pune, Mr. Vijaymani Gulati from Cognifront, Pune, Ms. Sapna Tewani from Siemens, Bangalore and Mr. Machchindra Dalvi from Amdocs, Pune.

■ Blood Donation Camp and awareness Lecture



Online expert lecture of Dr. Purushottam Puri



Principal Dr. K. N. Nandurkar distributing the Blood donation certificate

Government of Maharashtra and Savitribai Phule Pune University has made an appeal for blood donation as there is a shortage of blood. In order to spread this message and create awareness about pros and cons of blood donation on 18th December 2020, our institute had organized online expert lecture of Dr. Purushottam Puri (Blood Bank Officer, Sandarbha Seva Hospital, Shalimar Nashik) on topic “Awareness for Blood Donation” for all staff members and students. Dr. Puri has nicely explained about the importance of blood donation considering Covid-19 pandemic and the imperative to observe social distancing protocol. He cleared all doubts and misconceptions related to blood donation. Considering the State Government directives and following all safely precautions, our institute has organized Blood Donation Camp on 19th December 2020 in association with Government Blood Bank of SandarbhaSeva Hospital, Shalimar, Nashik. In this camp total 35 donors participated actively and donated blood.

■ Expert Lecture/Seminar/Courses/Workshop Conducted:

- Electronics and Telecommunication Engineering Department organized Webinar on “Career Opportunities for Engineers as Class-1 Officers in the Armed Forces” by Brigadier Harish Chande (retd) on 03/12/2020 and Webinar on “2020 Nobel Prize in Physics: Blackholes are there” by Prof. Dr. Gireesh P. Pimpale, Ex. Associate Professor and Head, Department of Physics, HPT Arts and RYK Science College, Nashik on 10/12/2020.
- Electrical Engineering Department had organized Virtual Industrial Visit to Shree Control Solution by Mr. Sanjay R. Ohol on 4/12/2020.



- The Dept. of Information Technology has taken up an initiative for Open Source Software awareness. To expand awareness about GitHub usage. A video is prepared which explains various features of GitHub. It is uploaded on <https://opensourceinitiativeitkkwieer.wordpress.com/december-2020/> as well. Same department also organized an online Certificate Course on “Block-Chain” by Mr. Tushar Kute, Data Scientist and Researcher in MITU Research, Pune. Students of TE IT attended the course on 23rd & 24th Dec 2020.
- MCA Department organized Expert Talk on “Automation Tool- Selenium: Scope and Opportunities by Mr. Sangam Bajpai on 12th December 2020.

Expert Lecture/Seminar/Courses/Workshop Attended:

- Computer Engineering Departmental staffs Prof. C. R. Patil, Prof. S. K. Gondhalekar, Prof. S. T. Patil, Prof. N. M. Pagare, Prof. S. D. Jadhav, Prof. M. N. Shinde, Prof. G. R. Gupta and Prof. P. D. Rakibe attended 5 Days AICTE-ISTE Sponsored One Week Refresher programme on “Role of ICT in Teaching Learning Process” from 14th to 19th December 2020. Prof. G. R. Gupta and Prof. N. M. Pagare also attended Two Week Online FDP under AQIS 2019-2020 on “Emerging Trends in Deep Learning and Its Applications” from 23rd November to 5th December 2020. Prof. C. R. Patil, Prof. G. R. Gupta and Prof. N. M. Pagare also attended AICTE sponsored One Week Short Term Training Programme on “Blockchain and its Applications” from 30th November to 05th December 2020.
- Electronics and Telecommunication Engineering Department staff Mrs. R. V. Chothe attended AICTE Sponsored one week online STTP on “Role of Teacher: To Boost Moral Value, Ethics in Engineering Education System” organized by MVPS KBT College of Engineering Nashik from 17th to 23rd December 2020.
- Electrical Engineering Department staff Prof. R. A. Ahire attended AICTE Sponsored STTP on “Role of Teacher: To Boost Moral values, Ethics in Engineering Education System” from 17/12/2020 to 21/12/2020. Prof. Dr. R. K. Munje has attended English for Beginners: Intensive Spoken English Course of 12 Week. Prof. J. P. Shah has attended FDP on “Internet of Things” from 15/12/2020 to 19/12/2020.

- Chemical Engineering Staff Dr. V. S. Mane, Dr S. N. Jain, Prof. V. N. Mawal, Prof. G. B. Daware, Prof. S. N. Derle, Prof. Z. K. Deshmukh, Prof. T. B. Mahale and Prof. V. Parashar have attended AICTE Sponsored one week online STTP on “Role of Teacher: To Boost Moral Value, Ethics in Engineering Education System” organized by MVP_s KBT College of Engineering Nashik from 17th to 23rd December 2020.
- MBA department staff Dr. A. S. Joshi attended “Case Writing Workshop” by Association of Indian Management Schools Hyderabad from 14th Dec. 2020 to 16th Dec. 2020. Dr. Shalmali Gadge attended FDP on “Human Resource Management” by Adarsh Institute of Management & Information Technology from 7th to 9th Dec. 2020. Dr. S. P. Dhake and Prof. A. A. Hippalgaonkar attended one week Online FDP on “Strategy” by Amity Business School from 7th to 11th Dec. 2020.

Training & Placement :

Name of Company	Name of the Dept.	No. of students selected
TCS	Electrical Engg.	3
HCL, Pune	MBA	1
Caprihans India Ltd.	MBA	1

Abstracts of papers presented during December 2020 Verification of Technical Viability for Construction and Demolition Waste and RCA with Sustainability of SW Material for Flexible Pavement

Prof. P. L. Pathak, Prof. G. S. Madan & Dr. P. D. Jadhao

(Presented paper in International conference organized by School of Civil Engineering, KIIT Deemed to be University, Bhubaneswar on 18th December 2020)

Abstract: The road construction using natural aggregate is a common phenomenon that leads to Higher cost in construction and maintenance as availability of material is low and hence the gap between demand and supply is high. So it is necessary to find a better alternative without Compromising on Strength. Day by day there is a huge scarcity of natural resources. Thus, it is Necessary to alternate natural resources. This study verifies the technical viability of using Camped waste And RCA as material for flexible road pavement. The suitability of solid waste material is tested in Flexible road pavement by

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conducting Geotechnical and Geo-environmental laboratory. Also, the field Performance of new products Camped waste in the base and subbase course is investigated. The utilization of these waste materials in road construction will be enhanced and higher economic Returns are expected. Also, the concrete waste needs to be separated from the Camped waste at the initial Stage rather than using a mixed proportion of Camped waste, as result interpretation of the Camped waste Failed in the impact, Crushing and Abrasion test.

■ Low Light Image Enhancement for Dark Images

Prof. Rupali Bora

(Published paper in International Journal of Data Science and Analysis, Volume and issue No: Vol. 6, No. 4, 2020, ISSN: 2575-1883)

Abstract: Image plays an important role in this present technological world and leads to progress in multimedia communication, various research fields related to image processing, etc. Low-light image enhancement specifically addresses images captured in low-light conditions such as nighttime, where the common goal is to brighten and improve the contrast of the image for better visual quality and show details that are hidden in darkness. Research fields that may assist us in lowlight environments, such as object detection, has glossed over this aspect even though breakthroughs-after breakthroughs had been achieved in recent years, most noticeably from the lack of low-light data (less than 2% of the total images) in successful public benchmark datasets such as PASCAL VOC, ImageNet, and Microsoft COCO. To improve image quality, these low-light images are needed to be enhanced. For this purpose, an exclusively dark dataset comprising of images captured in visible light only is proposed. Further, dehazing technique is used for haze removal, histogram equalization (HE) technique is used for contrast enhancement and denoising technique is used for noise removal. Experimental results demonstrate that the proposed method achieves a good performance in low light image enhancement and outperforms state-of-the-art ones in terms of contrast

enhancement and noise reduction.

Keywords: Dataset, Dehazing, Denoising, Enhancement, Histogram Equalization, Low-light.

■ A book chapter on “Improving the performance of machining processes using Opposition based learning civilized swarm optimization”

Dr. P.J. Pawar and Dr. K. N. Nandurkar

(Nature Inspired Optimization in Advanced Manufacturing Processes and Systems under series AI in Engineering, published by CRC Press - December 2020)

Abstract: Although particle swarm optimization (PSO) can generate high-quality solutions within shorter calculation time and stable convergence characteristics than many other stochastic methods, it still has the problems of dependency on initial point, premature convergence and getting trapped into local optima especially with complex problems. To overcome these drawbacks of PSO algorithms and to improve its performance, several variants are proposed by researchers. Civilized swarm optimization (CSO) is one of the variants of PSO algorithm. It is an integrating technique of PSO and Society civilization algorithm (SCA). PSO offers the capability of utilizing the personal experiences of the particles efficiently whereas, SCA provides a well balance between local searching strategy and global search. Thus the civilized swarm optimization combines the advantages of both PSO and SCA and hence is expected to perform better as compared to basic PSO. The comparative analysis of performance of the two algorithms, PSO and CSO when applied to optimization of machining processes is presented in this chapter. To deal with the issue of dependency of initial point, the concept of opposition based learning is also demonstrated in this chapter.



Prof. Dr. K. N. Nandurkar
PRINCIPAL

