



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

January 2021

Vol. : 13  
Issue : 1

### ■ Interaction with Minister of Higher and Technical Education Shri. Uday Samant

On 22<sup>nd</sup> Jan 2021, Minister of Higher and Technical Education Shri. Uday Samant visited our institute. He was felicitated at the hands of President of K. K. Wagh Education Society, Shri. Balasaheb Wagh. Shri. Uday Samant appreciated the development of K. K. Wagh Education Society. Shri. Uday Samant interacted with the staff of K. K. Wagh Education Society. For this program Trustee Shri. Changdevdada Holkar, Trustee Er. Sameer Wagh, Secretary Prof. K. S. Bandi, Principal Dr. K. N. Nandurkar, Shri. Ajinkya Wagh, Principals, Heads of department and staff of various institutes of K. K. Wagh Education Society were present.



Felicitating of Shri. Uday Samant

### ■ Online counseling For 12<sup>th</sup> Science Students

Online Counseling session for 12<sup>th</sup> Science students was organized on 6<sup>th</sup> January 2021 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 and how to fill the option forms. The students were very attentive and keenly listened to the presentations. After the

presentation the queries of the students were answered. For the session, Heads of department, all staff and students were present. Total participants were 225.

K. K. Wagh Education Society's  
**K. K. Wagh Institute of Engineering Education & Research, Nashik**  
Website: [www.engg.kkwagh.edu.in](http://www.engg.kkwagh.edu.in)

• Only one institute in Nashik region to receive NBA Accreditation for 8 Programmes at a time  
• NAAC accredited with 'A' Grade  
• Platinum category award as per AICTE - CII survey of industry linked technical institute

**K. K. Wagh Institute is Back with another Webinar on Counseling for Engineering Admission 2020 Option Forms for CAP Round 1 on 6<sup>th</sup> January 2021**

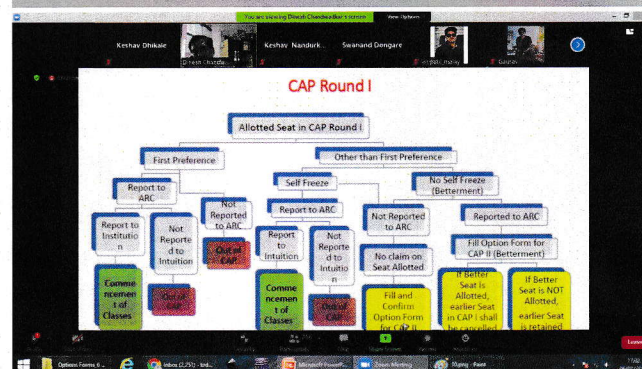
**Prof. Dr. K.N. Nandurkar**  
Principal,  
K. K. Wagh Institute of Engineering Education and Research, Nashik

**Prof. Dr. D.M. Chandwadkar**  
Dean, Admission & Head of E & TC Dept.,  
K. K. Wagh Institute of Engineering Education and Research, Nashik

Register here: <http://tinyurl.com/kkwadmission>  
Use following Zoom meet joining link

On Zoom Platform  
Meeting ID : 894 6875 8768  
Passcode : options

on 6<sup>th</sup> January 2021 Wednesday 04:00 pm  
<https://us02web.zoom.us/j/89868758768?pwd=bnVSS2h0ZWVWdWlA4eUR0aUJUT09>  
Phone: 0253 - 2221310, Mob.: 788804555



Online counseling session for 12<sup>th</sup> Science students

### ■ Online meeting on Awareness about Private University by Prof. Rajesh Patel

On 8<sup>th</sup> January 2021, online meeting on "Awareness about Private University" by Prof. Rajesh Patel (Director, School of Engineering and Technology, Nirma University Ahmadabad) was organized. Principal Dr. K. N. Nandurkar initiated the meeting. Prof. Rajesh Patel explained about the USP of Nirma University. He explained the various advantages and flexible options available for a Private University. He explained the best



practices available in Nirma University. The members of Private University Committee of K. K. Wagh Education Society, Nashik attended the said meeting. At the end Prof. Rajesh Patel addressed various questions asked by the members present.

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



### Awareness Session on Private University

by  
Dr. Rajesh Patel  
Director  
School of Engineering and Technology  
Nirma University  
08<sup>th</sup> Jan 2021

Prof. Rajesh Patel delivering lecture on Private University

### Prof. Dr. S. A. Kelkar donated Book to Hon. President Shri. Balasaheb Wagh



Prof. Dr. S. A. Kelkar donating his own book to Hon. Shri. Balasaheb Wagh

Prof. Dr. S. A. Kelkar has donated his own written book "Business Process Management" to Hon. Shri. Balasaheb Wagh, President of K. K. Wagh Education Society. This book is very useful for students as well as staff members. Principal Dr. K. N. Nandurkar and Prof. Dr. S. S. Sane (Head of Computer Engineering) were present on this occasion.

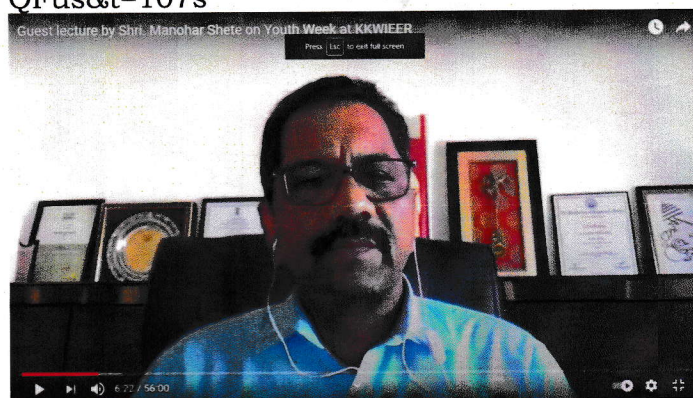
### College Development Committee Meeting on 9<sup>th</sup> Jan. 2021

Online College Development Committee meeting was held on 09<sup>th</sup> Jan. 2021. Chairman, Hon. Shri. Balasaheb Wagh, Shri. Shailendra Waghulde, Shri. Shirish Chaphekar, Shri. Hrushikesh Bhandari and elected staff members of the institute were present. Principal Dr. K. N. Nandurkar welcomed all the members. All members gave their valuable suggestions for overall development of the institute.

### National Youth Day

As per the instructions by Government of India and Savitribai Phule Pune University 12<sup>th</sup> January 2021 is celebrated as National Youth

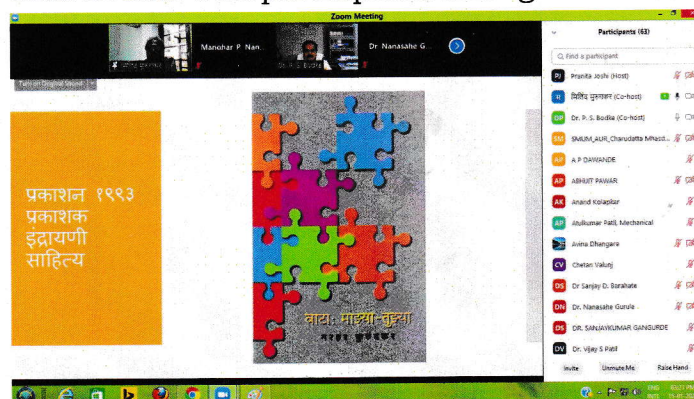
Day. Our institute had organized online expert talk for our all staff members and students. Considering Covid-19 pandemic and the imperative to observe social distancing protocol Shri. Manohar Shete (Director, M & M Industry, Nashik) delivered online expert talk on topic: "युवकांची बदलती मानसिकता". Dr. N. B. Gurule coordinated the activity in which around 300 staff and students actively participated in this event. This video of this lecture is made available on our institute YouTube channel, the link of which is as: <https://www.youtube.com/watch?v=adQG3exQFus&t=107s>



Shri. Manohar Shete delivering expert talk on topic "युवकांची बदलती मानसिकता"

### Marathi Bhasha Sanvardhan Pandharwada

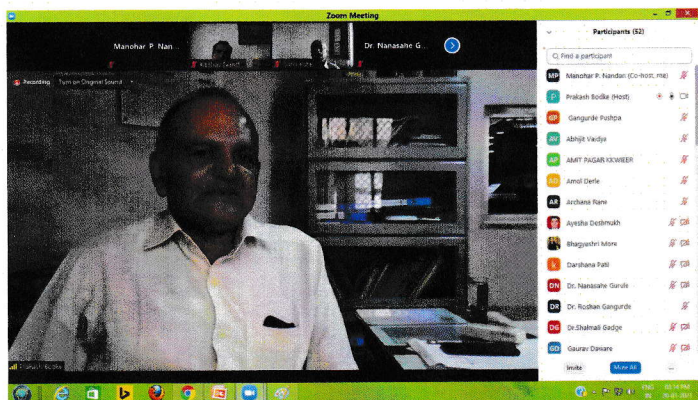
During 14<sup>th</sup> to 28<sup>th</sup> Jan. 2021 Kusumagraj Central Library celebrated "Marathi Bhasha Sanvardhan Pandharwada". On this Occasion, library has organised various program. On 15<sup>th</sup> January 2021 library has organized an online expert lecture of Prof. Milind Murugakar (Head of Mechanical Engineering) on "My Favourite Book". This function was inaugurated at the hands of Prof. Dr. K. N. Nandurkar, Principal, K. K. Wagh Institute of Engineering Education & Research, Nashik. On 20<sup>th</sup> January 2021 library has organized an online expert lecture of Shri. Shivaji Nathe on "यशस्वी शिक्षणासाठी तत्वज्ञानाची गरज." Library has organised online Marathi Quiz Competition for teaching & non-teaching staff. In this competition total 32 staff were participated among them.



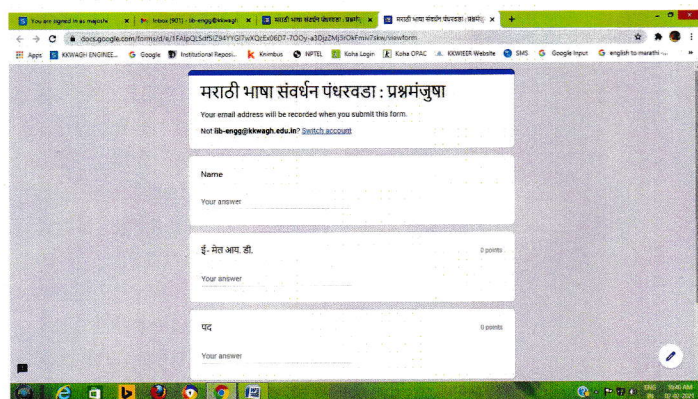
Expert Lecture by Prof. Milind Murugakar

continued on page 3





Expert Lecture by Shri. Shivaji Nathe



Online Marathi Quiz Competition

### ■ FE induction program- Inauguration on 21<sup>st</sup> January 2021

An online Induction program for newly admitted students in first year engineering was organized by Applied Science and Mathematics department from 21<sup>st</sup> Jan to 1<sup>st</sup> Feb 2021. In this program students were guided on the topic "How to make easier journey of engineering education to achieve desired target" by Principal Dr. K. N. Nandurkar, Dean Administration Dr. S. S. Sane, Dean Academics Dr. S. Y. Kute, Dean Admission Dr. D. M. Chandwadkar, T&P officer Dr. P. K. Shahabadkar, Prof. Milind Murugkar, Librarian Dr. P. S. Bodke and HOD Science Dr. S. N. Kadlag. The students were also guided about scholarship, exam, eligibility and different form filling, career development, higher education, entrepreneurship by educational counselor Prof. Ms. Pratibha Chandak, Prof. Ms. Dhanashri Haradas and alumni Mr. Vyanki Katariya, Ms. Kanishka Thakur, Chetan Malode, Kandrup Kashyap, Mayur Patil and Rohit Bagad. Shree Amol Gutte guided about Sensitivity of Engineering Education. Mrs. Sonali Pawar from Traffic Park Nashik guided about traffic rules and safety. Students were guided by Yog Guru Sangu Guruji

about Yoga and meditation. The effective guidance of spirituality by Krishidhan Das and about human values by Dr. Harishkumar from NIT Warangal. The guidance of innovation center by Dr. R. K. Munje, ISTE by Prof. Mrs. V. R. Lele, about workshop by Prof. J. S. Jadhav, Space technology by Prof. Jayadeep Shah, about IET by Prof. O. N. Buwa and sports by Prof. T. K. Kandekar.



An online Induction program for newly admitted students in First year Engineering

### ■ ISTE students Chapter-Installation of new Team

The Indian Society for Technical Education (ISTE) Students' Chapter of K. K. Wagh Institute of Engineering Education and Research has been a professional body in our institute for more than 17 years. Every year its legacy is carried forward by new members and the new committee is addressed by an official installation ceremony. Traditionally, the installation ceremony is organized in the institute but due to the pandemic situation, considering the safety of students, this year the ceremony was held on an online platform. The event was marked by the presence of Chief guest Brigadier General Mr. Harish Chande (retd.), Principal Dr. K. N. Nandurkar, faculty advisor Prof. Mrs. V. R. Lele and 90+ students. The event began with an introductory speech by Principal Dr. K. N. Nandurkar, giving a brief introduction of ISTE by stating that ISTE is the professional committee in the institute which helps students in grooming their personalities and improving soft skills. He glorified with pride that ISTE Students' Chapter of K.K.W.I.E.E.R. has won the "Best students chapter" award for 5 consecutive years.

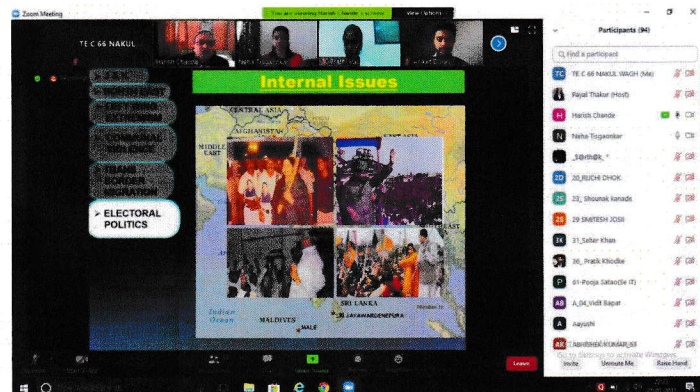
Moving forward with the ceremony, the committee members of Students' Chapter 2019-2020 were felicitated and the new 2020-2021 committee was inaugurated.



The new 2020-21 committee comprising

President	– Ms. Payal Thakur
Vice President	– Shreyas Magar
Secretary	– Ms. Dhanishtha Patole
Joint Secretary	– Ms. Rutuja Deshmukh
Treasurer	– Ms. Ditya Gade
Co-Treasurer	– Aniket Bhilore

Core committee members – Ms. Aditi Joshi, Ajinkya Raut, Akash Kadlag, Aniket Dolas, Ms. Divya Sonawane, Hridaya Ingle, Ms. Kalyani Dhande, Ms. Mamta Pandey, Nakul Wagh, Parag Suryavanshi, Parth Mondhe, Ms. Payal Jain, Ms. Poorva Wadhvane, Ms. Prachi Jaiswal, Prathamesh Jadhav, Prathi Rai, Pratik Khodke, Rahul Roy, Ms. Shamali Tathe, Shounak Kanade, Ms. Snehal Gulve, Ms. Trupti Patil, Vidit Bapat, Zaid Shaikh. In addition, senior committee members shared their momentous journey, their ups and downs, minor arguments, undetectable bonds, some hilarious moments and their united achievements. At the end, the senior committee and Prof. Mrs. V. R. Lele inspired the new committee to achieve excellence which boosted their spirits immensely. And thus, the journey of the new chapter of ISTE began!



Glimpse of the ISTE Installation Ceremony



ISTE Core committee (2019-20)



ISTE Core Committee  
2020-21



ISTE Core committee (2020-21)

### ■ Republic Day Celebration



Flag Hosting by Ms. Rita Merchant  
(Great grand daughter of  
Hirabai Haridas)

On 26<sup>th</sup> January 2021 Republic Day was celebrated at our K. K. Wagh Institute and Flag was hoisted by Ms. Rita Merchant (Great grand daughter of Late Smt. Hirabai Haridas). The Chief guests were Hon. Ashokbhai Merchant, Mrs. Sushmaben Ashok Merchant, Ms. Nidhi Merchant and other family member of Mr. Ashokbhai Merchant, Principal Dr. K. N. Nandurkar and other dignitaries were present.

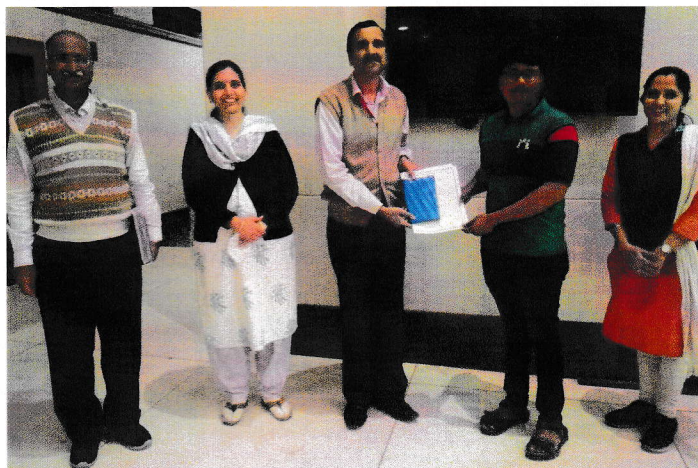


Chief Guests of Republic Day 2021

### ■ Felicitation of BE (IT) Topper

BE IT topper Sagar Sonwane (2019-20 batch) was felicitated on 9th January 2021 at the hands of Principal Dr. K. N. Nandurkar. He received 9.48 SGPA. On this occasion Prof. Dr. Sunil Kute (Dean, Academic), Prof. Dr. Mrs. Preeti Bhamre (Dean Quality and Head, IT) and Prof. Mrs. Shilpa Mene were present.





Felicitation of BE IT topper Sagar Sonwane (2019-20 batch)

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

- Electrical Engineering Department had organized Webinar on "Digital trends in IT" by Mrs. Kasturi Joglekar, Department Alumnus (2002 Batch) on 29/01/2021 and Webinar on "Strategic Planning for GATE in Electrical Engineering" by Mr. Vikram Dange, Alumnus (2002 Batch) on 06/01/2021.
- Dept. of Information Technology had organized an online seminar on "Block Chain & Use Cases" by Mr. Gaurav Somwanshi, Columnist Writer of Loksatta & CEO & Cofounder at EmerTech Innovation on 28<sup>th</sup> Jan. 2021.

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

- Computer Engineering Departmental staff Prof. Dr. Mrs. S. M. Kamalapur attended One Day Online FDP on "Project Based Learning II" on 22<sup>nd</sup> January 2021. Prof. Mrs. Preeti P. Vaidya attended One Day Online FDP on "Software Engineering" on 13<sup>th</sup> January 2021. Prof. Ms. R. H. Jadhav, Prof. Ms. I. Priyadarshini and Prof. Ms. N. G. Sharma have attended AICTE Training and Learning (ATAL) Academy FDP on "Machine Learning and Pattern Recognition" from 18<sup>th</sup> to 22<sup>nd</sup> January 2021. Prof. Ms. A. V. Taware attended AICTE Training and Learning (ATAL) Academy FDP on "Artificial Intelligence" from 11<sup>th</sup> to 15<sup>th</sup> January 2021. Prof. Ms. M. J. Patil has attended One Week Online Faculty Development Program on "Research Trends in Computer Engineering and Information Technology (RTCEIT-2021)" from 4<sup>th</sup> to 9<sup>th</sup> January 2021.
- Electrical Engineering Department staff Prof. Mrs. T. N. Date attended Online course: English for Beginners: Intensive Spoken English Course for twelve weeks. Prof. G. N. Jadhav attended NPTEL course on "Power System Protection and Switchgear" of 8 Week.

Prof. Ms. M. R. Rade and Prof. Ms. J. A. Mane have attended Online course "Presentation skills: Designing Presentation Slides" of 4 weeks.

- Chemical Department Staff Prof. Ms. Varsha Parashar attended AICTE Training and Learning (ATAL) Academy FDP on "Technology Management" from Dr. B. R. Ambedkar National Institute of Technology from 04/01/2021 to 08/01/2021.
- Dept. of Information Technology staff Prof. Pratik Kadam completed Coursera Certification on "Reliable Google Cloud Infrastructure: Design and Process" offered by Google Cloud. Prof. Ms. Rupali Bora attended six days STTP on "Leveraging Artificial Intelligence and Data Analytics for Healthcare" organized by Department of Information Technology, K. J. Somaiya Institute of Engineering & Information Technology, Mumbai sponsored by AICTE under AQIS 2019-20 from 4<sup>th</sup> to 9<sup>th</sup> Jan. 2020. Also Prof. Pratik Kadam participated in "Google Cloud Community Days India" event organized by GDG Cloud Community from 22<sup>nd</sup> to 23<sup>rd</sup> Jan. 2021.

■ **Abstracts of papers presented during January 2021**

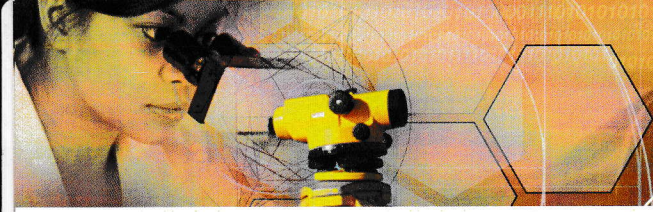
**Identifying Advanced, Average and Slow Learners: Case Study in Journal of Engineering Education Transformations**

Prof. Dr. Ravindra Munje, Mr. Omkar Buwa & Ms. Rupali Ahire

(Published paper Journal of Engineering Education Transformations, Volume 34, January 2021, Special issue, eISSN 2394-1707).

**Abstract:** Engineering education is dynamically changing its face by transforming from conventional passive learning to active learning across the globe. Active learning is a well-proven technique to enrich the understanding level of learners. However, the understanding, comprehension, and intellectual capabilities of every individual are different. It is highly important to identify these capabilities and provide the required knowledge feeding to intensify the curiosity of a learner in a specific course. Since the same course may not be understood by all the learners at the same depth, it is required to characterize the learning abilities of every learner. Thus, the learner community





can be classified into advanced, average, and slow learners. In this paper, a strategy based on Bloom's Taxonomy (revised) is proposed for identifying advanced, average and slow learners in a course. For that, firstly, an online open-book test (OBT) covering all the levels of revised Bloom's Taxonomy is innovatively designed for each course. Secondly, the OBT is conducted as per schedule and question-wise, and thereby, Bloom's Taxonomy cognitive level-wise assessment is completed for all the courses. Thirdly, course-wise students are ranked from highest to lowest performance levels using statistical tools. Finally, using pre-decided thresholds, learners in a course are identified as advanced, average and slow. The application of this learner classification approach is demonstrated by considering the case of courses in the second, third, and final year of the Electrical Engineering program. The presented approach has substantial potential to be used for designing and planning course delivery to accommodate all types of learners.

#### ■ **Observer-based Multirate Feedback Control Design for Two-time-scale System**

Prof. Dr. Ravindra Munje

(Paper published in International journal of Automation and Computing (2021))

**Abstract:** The use of a lower sampling rate for designing a discrete-time state feedback-based controller fails to capture information of fast states in a two-time-scale system, while the use of a higher sampling rate increases the amount of computation considerably. Thus, the use of single-rate sampling for systems with slow and fast states has evident limitations. In this paper, multirate state feedback (MRSF) control for a linear time-invariant two-time-scale system is proposed. Here, multirate sampling refers to the sampling of slow and fast states at different sampling rates. Firstly, a block-triangular form of the original continuous two-time-scale system is constructed. Then, it is discretized with a smaller sampling period and feedback control is designed for the fast subsystem. Later, the system is block-diagonalized and equivalently represented into a system with a higher sampling period. Subsequently, feedback control is designed for the slow subsystem and overall MRSF control is derived. It is proved that the derived MRSF control stabilizes the full-order system. Being the transformed states of the original system, slow and fast states need to be estimated for the MRSF

control realization. Hence, a sequential two-stage observer is formulated to estimate these states. Finally, the applicability of the design method is demonstrated with a numerical example and simulation results are compared with the single-rate sampling method. It is found that the proposed MRSF control and observer designs reduce computations without compromising closed-loop performance.

#### ■ **Systematic and Rigorous Use of Feedback to Enhance Learning in Engineering Classes**

Prof. Dr. Mrs. Preeti Bhamre, Apurv Vaidya & Ms. Jagruti Nikam

(Published a paper in Journal of Engineering Education Transformations eISSN: 2394-1707)

**Abstract:** Feedback aims to reduce the gap between where the students are and where they are meant to be. In order to bridge this gap, teachers must incorporate feedback in classroom effectively. There is a need to understand different ways in which feedback can be provided in classroom. There is also a need to identify and implement simple yet systematic procedure to provide regular and transparent feedback in classroom. This study presents deliberate use of spaced questioning to understand how to take full benefits from feedback in the classroom. Feedback is summarized based on the errors committed by the students. Instead of considering the errors simply as deficit of knowledge or inability of students to think correctly, they can be treated as opportunities to bridge the gap of what students know and what they should know. Knowing and acknowledging these errors is the key contribution of a teacher, which can be attained through feedback in classroom. The participants in this study were first year engineering students of 14 classes, enrolled for the Engineering Mechanics course. An ICT tool named MKCL SuperCampus, was used to pose questions and to track real time individual performance in the classroom. The use of the ICT tool provided an easy and fearless environment for students to participate comfortably, thereby motivating them to make and learn from errors and to engage more while learning in classes

**Keywords:** Information and Communication Technology (ICT), Teaching-Learning, Instruction, Formative assessment, Learning outcomes.

Prof. Dr. K. N. Nandurkar  
PRINCIPAL

