



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

January 2018

Vol. : 10
Issue : 1

■ MAFFICK-2018

Annual social gathering "Maffick-2018" of our Institute was held during 15th-17th Jan. 2018. "MAFFICK-2018" was inaugurated at the hands of Principal Dr. K. N. Nandurkar, Prof. Dr. S. S. Sane, Prof. Vilas Patil, Maffick Coordinator Prof. G. B. Daware, Staff members and students were present on this occasion on 15th Jan. 2018. Theme for this year was 'India as a superpower- Past, Present & Future'. Various events were conducted on 14th, 15th, 16th, & 17th January 2018. On 14th January 2018, kite festival was organized and celebrated on the occasion of Makar Sankrant. On 15th & 16th January, various cultural competitions like dance, personality, drama, fashion, DJ entertainment, Nakshatrache Dene, Softskills competitions like Essay, Poster, Rangoli, Debate & Quiz were held in the College campus. Prize distribution ceremony for 2017-18: Academic, Cultural & Sports was held on 17th Jan. 2018. For gracing the function Mrs. Priya Bagul/Uttarkar, Managing Director FUTOM Engineers Pvt., Ltd., Pune, Alumnus and Guest of Honor, Dr. Ramakant Patil, Dr. B. M. Naik, Advisory member of K. K. Wagh Education Society were present. Prof. G. B. Daware worked as Maffick coordinator.



Inauguration of Maffick 2018



Maffick Prize distribution

■ Inauguration of Words Maya program by Prof. Arvind Shaligram (Registrar, SPPU, Pune)



Felicitation of Hon. Chief Guest Dr Shaligram

The seminar on 'Digital Learning Initiative: Improving English Communication Skills assisted by Mobile Phones' was organized on 12th Jan. 2018 in the campus of K. K. Wagh IEER, Nashik. The seminar was inaugurated at the hands of Hon. Professor Dr. Arvind Shaligram, Registrar of Savitribai Phule Pune University. The event was also graced by the presence of Dr. K. N. Nandurkar, Principal, Dr. S. S. Sane, HOD (Computer) and Mr. Harshad Bhagwat, CEO of Words Maya. Principal Dr. K. N. Nandurkar delivered welcome address. Hon. Chief Guest Dr. Arvind Shaligram delivered his key-note speech to the audience. He highlighted the importance of communication skills for the people in technical field. Most of the times, even though technical person are very good in their domain knowledge, they fail to express themselves and also to impress the listeners.

■ Lecture by Ms. Anima Patil

Ms. Anima Patil, a NASA Astronaut Aspirant, on her trip to India, visited our institute to inspire young Nashikites. Ms. Anima Patil is on a mission to be an astronaut. She was formally invited to Nashik by "Kalpana Youth Foundation" (KYF)-NGO that strives to bring awareness among students and citizens about Space Science. A talk was organized at K. K. Wagh Institute of Engineering Education and Research for students from different Schools and Colleges. She was welcomed by Principal Dr. K. N. Nandurkar and Prof. Jaydeep Shah. A brief talk of Ms. Anima Patil with the teaching faculty was organized. Then a second session was conducted by her for students. As a part of her introduction she shared her journey from a Software engineer in India to a NASA's Astronaut Aspirant. She is based in the Intelligent Systems Division at NASA Ames Research Center and has worked on NASA's Kepler Mission for more than 3 years, with 14 years of experience in the software industry prior. She was selected as Commander for the HERA VII mission, a 14 day Human Exploration and Research Analog at NASA's Johnson Space Center. She is a First Tier Support Engineer for Hi-SEAS and scientist-astronaut candidate for Project PoSSUM (Polar Suborbital Science in the Upper Mesosphere). She guided students how to apply to NASA and pursue their dream of career in Aerospace and Space Science. She concluded by saying, "Dream big, soar high! Work hard, be persistent, have a backup plan, and keep charging upwards and onwards!". At the end students had an opportunity to have a question answer session and get their doubts cleared.



Speech by Ms. Anima Patil, a NASA Astronaut Aspirant

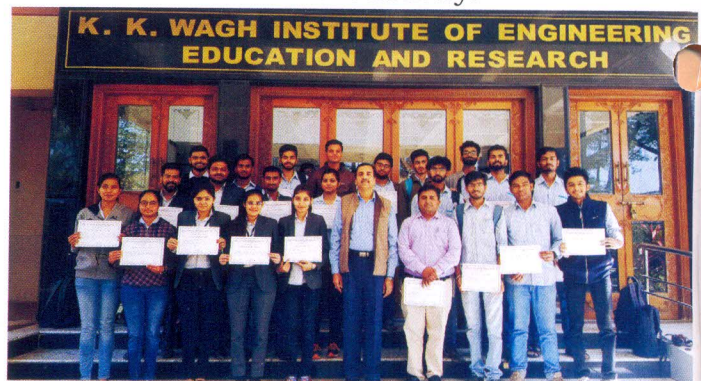
■ Visit of Dr. S. S. Inamdar

An interactive session by Dr. S. S. Inamdar (Managing Trustee/Secretary, Vishwaniketan) was organized on the topic- "Project Based

learning and summer training in Universities abroad". It was organized for the Second and Third year engineering students of our institute. During the session, he emphasized on project based learning and its importance for the overall development of students. He put forth various objectives and benefits of the UG Fellowship programs offered by various universities outside of India. Some of the main objectives offered were to create more development in the areas of Indian research and start-ups. Some international universities have extended their collaboration towards this cause. Some of them were: Athens Information Technology (AIT) (Greece), Ural Federal, University (UrFu) (Russia), National Technical University (Ukraine), University of Arkansas, Little Rock, (USA), Stevens Institute of Technology, New Jersey, (USA), Technical University of Sofia, (Bulgaria), University of Tor Vergata (Rome, Italy).

■ Simulation Workshop by Dr. Ashok Ullal

Entrepreneurship Development cell of KKWIEER organized One Week Workshop on Business simulation. Dr. Ashok Ullal, Professor Emeritus and Former Dean, School of International Business, Reutlingen University, Germany conducted One Week Workshop on "Business Simulation" from 8 to 13 Jan. 2018. Total 25 Students from Engineering and MBA Successfully completed the course. Prof. C. S. Mhasde co-ordinated the activity.

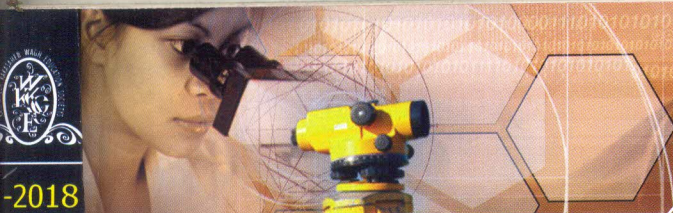


Participants of Simulation workshop

■ Workshop on 'Team Building and Motivational'

Mr. Subodh Deshmukh, conducted a workshop titled 'Team Building and Motivational' for Students from 6th to 10th Jan. 2018. The contents of this workshop were: Team Building Skills, Communication Skills, Personality Development and Build a GO GETTER ATTITUDE. Around 200 Second Year Students have taken the benefit of this workshop. Mr. Subodh Deshmukh

continued on page 3



conducted many group activities for the enhancement of working in group skills.



Participants of Personality Development workshop

Seminar on Admission Process - 2018

Principal Dr. K. N. Nandurkar & Prof. Dr. D. M. Chandwadkar had visited K. K. Wagh Arts, Commerce, Science and Computer Science College, Saraswati Nagar, Nashik on 10/01/2018. Prof. Dr. K. N. Nandurkar had briefed the students about history and progress of K. K. Wagh Education Society. He also highlighted the salient features of K. K. Wagh Institute of Engineering Education & Research and various career opportunities students are having in the field of engineering. Prof. Dr. D. M. Chandwadkar explained the eligibility criteria and admission procedure for getting admission to an engineering college. He also categorically mentioned the Do's & Don'ts while filling the option forms without any scope of error. The students were satisfied after the programme as their queries were resolved by the speakers.



Seminar on Admission Process 2018

Lecture by Mrs. Vedashri Thigle - Marathi Pandharwada on 12th January 2018

On the occasion of "मराठी भाषा संवर्धन पंधरवाडा" ISTE Student Chapter of K. K. Wagh Institute of Engineering Education and Research, Nashik arranged a lecture by Mrs. Vedashri Thigle. Mrs. Thigle presented a very informative and flawless speech on "मराठी वाचन संस्कृती व मराठी भाषा". She has a

vast experience in the Marathi literature. She has briefly taken a look towards the journey of Marathi Literature from 16th Century to 20th century. She gave instances and examples from Mahanubhav Panth, Dynaneswari, Eknathi Bhagvat, also few from P. L. Deshpande's literature. She has given stress on the habit of reading different books from ancient days to improve the vocabulary as well as the personality of students. Marathi language is very powerful language and had so many great personalities in the field of literature. They should not rely only on the data available on internet but they have to improve their analytics power through the reading. Ms. Ketaki Deshpande, one of the alumni of the institute was also present for this event. She has donated few books to the institute from her collection.



Lecture by Mrs. Vedashri Thigle on the occasion of मराठी पंधरवाडा

Lectures by Prof. Vinod Mohitkar and Prof. Pratapsinh Desai



Prof. Vinod Mohitkar (Director, MSBTE) addressing the gathering

On 18th January 2018, Prof. Vinod Mohitkar (Director, Maharashtra State Board of Technical Education, Mumbai) and Prof. Pratapsinh Desai (President of Indian Society for Technical Education) visited our institute. Both the guest were felicitated at the hands of President of K. K. Wagh Education Society Shri. Balasaheb Wagh.

continued on page 4

Prof. Vinod Mohitkar and Prof. Pratapsinh Desai delivered speeches on Engineering Education and improving the quality for welfare of Society. For this program Trustee Shri. Sameer Wagh, Secretary Prof. K. S. Bandi, Principal Dr. K. N. Nandurkar, Principals and Heads of various departments of various institutes of K. K. Wagh Education Society were present.

■ Participation of K. K. Wagh Education AIMA INDEX during 18th to 21st January 2018.



Felicitation of Hon. Shri. Balasaheb Wagh by AIMA President



Visit by Hon. Minister Shri. Vishnu Sawra to K. K. Wagh Stall

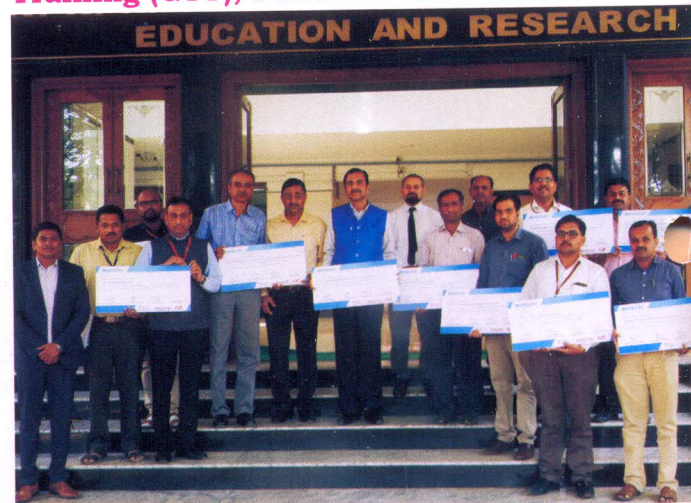


TPO receiving prize at the hands of Hon. Minister Shri. Dada Bhuse

Ambad Industrial Manufacturers Association (AIMA) organized "AIMA Index -2018" Exhibition at Dongre Vasti Gruha Ground, Nashik during 18th to 21st Jan. 2018. We had a stall numbering F-24 and F-25 to showcase K. K. Wagh Education

Society to corporate world and exhibit students projects. Around 5 working industrial student's projects were displayed in our stall. Many Political leaders, CEOs, Plant Heads, Students, Alumni have visited K. K. Wagh Stall and appreciated the students' projects. Prominent visitors to K. K. Wagh Stall were: Hon Shri Vishnu Sawra, Adivasi Vikas Mantri, Maharashtra, GM of BSNL, HR Head of India Bulls, Hon Shri. Ravindra Kumar Singhal, Commissioner of Police, Emerson Plant Head Shri. Chaphekar, many K. K. Wagh Alumni Entrepreneurs and students. In the AIMA Index, Hon Shri. Balasaheb Wagh was felicitated by AIMA President Mr. Rajendra Ahire. AIMA Index -2018 President Shri. Dhananjay Bhele appreciated the efforts of Hon. Shri. Balasaheb Wagh for his contribution in developing skilled manpower. AIMA has given a prize to K. K. Wagh in the valedictory function of AIMA Index. This prize was given for the Quality of the K. K. Wagh Stall, Contents in the Stall and K. K. Wagh Contribution for the success of AIMA Index. This prize was given at the hands of Hon. Minister Shri. Dada Bhuse.

■ Signing of MOU between Global Talent Training (GTT), Pune and our Institute



Member of various Colleges and GTT Officials



Signing of MoU with GTT

continued on page 5

Students'...
Students'...
Many...
Students...
and...
minent...
Shri...
antri...
India...
nghal...
Head...
umni...
Index...
ed by...
Index...
Bhele...
sa...
skilled...
Wagh...
This...
Wagh...
Wagh...
This...
minister

Global Talent Training (GTT), Pune successfully trained for 2000 Final Year Students of K. K. Wagh Education Society under the Barclay's CSR activity. This training was conducted for two days and Students were trained for SWOT analysis, Communication Skills, Interview Skills and Personality Development. On this occasion and MoU was signed between GTT and K. K. Wagh. Through this MoU, GTT conducts training programme to K. K. Wagh Students. On the behalf of GTT, MoU was signed by Mr. Gaurav Shrivastav, Group Manager, GTT on 24th Jan. 2018.

■ Syllabus implementation workshop by Mechanical Department



Syllabus Implementation Workshop

Department of Mechanical Engineering organized "Syllabus Implementation Workshop" for Subject of "Design of Machine Element II", TE Mechanical (2015 course) in association with SPPU, Pune on 8th Jan. 2018. It was inaugurated by Principal Dr. K. N. Nandurkar. Faculty Members from various colleges in Nashik Region were present.

■ Syllabus meeting of Geology subject

Meeting for finalizing the draft copy of syllabus of Advanced Engineering Geology with Rock Mechanics at B.E. Civil (2015 Course) was organized in our college on 24/01/2018. Faculties from various Engineering Colleges such as PREC Loni, SNJB Chandwad, D.Y. Patil Akurdi, Universal COE Narhe, Sinhgad, Pune, KBT COE Nashik, Sapkal COE Nashik and PDVVP Nagar have attended the meeting.

■ Republic Day Celebration



Flag Hoisting

Republic day was celebrated in the institute on 26th Jan. 2018 with full honor. The flag was hoisted at the hands of Mrs. Krishna Merchant (Daughter in Law of our trustee Hon. Shri. Ashok Merchant), and Trustee Hon. Shri. Ashokbhai

■ Two Days Workshop on 'Artificial Intelligence: Research and Applications'



Inauguration of two-day's workshop on 'Artificial Intelligence: Research and Applications'

K. K. Wagh Institute of Engineering Education and Research, Nashik in association with Engineering Education Foundation, Department of Production Engineering had organized two-day's workshop on 'Artificial Intelligence: Research and Applications' during 6 -7 Jan. 2018. The main objective of this workshop was to promote the applications of Artificial intelligence techniques in the field of Engineering. The training program provides a forum in which the participants obtained information about recent advances about various artificial intelligence methods having wide potential in engineering research and also learn about the needs of engineering sciences and successful applications of these methods related to Engineering. About 35 participants including faculty members, research scholars from various engineering institutes in Maharashtra attended this workshop. This workshop was inaugurated by auspicious hands of Dr. D. Datta (Scientist-H+, Bhaba Atomic research Center, BARC, Mumbai). Dr. Datta also delivered keynote speech. Dr. S. S. Sane (Head, Computer Engineering department) and Dr. P. J. Pawar delivered expert sessions in this workshop.

continued on page 6

Merchant. For the program Mrs. Sushmaben Ashok Merchant and their other family members were also present. NSS volunteers presented a street drama on 'Voting Awareness'. All Staff and students from Engineering, Polytechnic and Hostels were present for the ceremony. On this occasion Hon. Shri. Ashokbhai Merchant, Trustee of K. K. Wagh Education Society felicitated Principal Dr. K. N. Nandurkar, Prof. Dr. B. E. Kushare and Prof. Dr. V. S. Mane for their election as member of BOS of Savitribai Phule Pune University.

■ Smart Grid Technologies & Applications of IoT



Inauguration of National workshop of "Smart Grid Technologies and Applications of IoT"

Savitribai Phule Pune University sanctioned two days National level workshop under quality improvement program on "Smart Grid Technologies and Applications of IoT", hosted by Department of Electrical Engineering, K. K. Wagh Institute of Engineering Education and Research, Nashik during 29th -30th Jan. 2018. Program was organized with the aim of study of Smart Grid Technologies, Integration of distributed generation and Renewable technologies, micro grids areas and application in IoT. This program has offered a platform for dissemination of knowledge and experience in the thrust areas among the various stakeholders from industry, academia, R & D and Government agencies.

■ Visit of Prof. S. Rawandale, Dean Industry Institute Interaction, PCCOE, Pune

Professor S. Rawandale, Dean Industry Institute Interaction, PCCOE Pune visited K. K. Wagh Institute of Engineering Education and Research, Nashik on 30th Jan. 2018 for conducting the interaction with the students, staff and Principals of institutes run by K. K. Wagh Education Society. Professor S. Rawandale addressed the staff with theme of "Role of Teachers for Enhancement of Students Skills". Later part of the day he also held an interaction with the students of Third Year and Final Year. He told

the students about "Preparations for Getting the Good Placements" through campus interview. This interaction was attended by class coordinators and around 250 students. In the evening a meeting between Management Principal and Professor S. Rawandale was held with an objective of "Policies and Strategies for enhancement of Training and Placement Activities in K. K. Wagh". Professor S. Rawandale said that in future the jobs will be more for B.A./B.Com./B.Sc. because companies find that this lot can work with less salary and also retention will be more and also there will not be mass recruitments. So, institutes must explore the jobs for core companies and product based companies for IT industries. This meeting was attended by Hon. Trustee Shri. Sameer Wagh, Principal, Dr. K. N. Nandurkar, Prof. P. T. Kadve, Prof. V. M. Shewlikar and Heads of the Departments and senior staff. Dr. K. N. Nandurkar felicitated Professor S. Rawandale and vote of thanks was proposed by TPO, Dr. P. K. Shahabadkar.



Prof. S. Rawandale addressing the Staff



Interaction between Prof. Rawandale, Principals, HODs and Management

■ K. K. Wagh received prestigious Awards by Computer Society of India (CSI)

K. K. Wagh institute of Engineering Education and Research Nashik student branch is honored

continued on page 7

...ting the
...terview.
...y class
In the
...ement-
...as held
...gies for
...cement
...wandale
...ore for
...ind that
...nd also
...ll not be
...xplore
...t based
...ing was
...W.,
...Kadve,
...of the
...K. N.
...wandale
...Dr. P. K.

by various awards during 52nd Annual Convention of Computer Society of India (CSI 2017), held at Science City, Kolkata during 19th to 21st Jan. 2018. The Theme of CSI Annual Convention 2018 was "Social Transformation – Digital way". In this convention K K Wagh Institute of Engineering, Education & Research student branch of CSI received prestigious award "Best Accredited Student Branch". While, Prof. Anand Kolapkar, counselor of student branch was awarded by "Longest Continuous Student Branch Counselor". Student Coordinator, Mr. Vishal Pattar was honored as 'Highest Committed Student Branch Activist'. Awards were presented by Mr. Sanjay Mohapatra, President CSI, Prof. A. K. Nayak, Secretary, CSI, Prof Dr. S. S. Sane, Regional Vice President (Maharashtra & Goa) CSI and Mr. Gautam Mohapatra. Hon. Balasaheb Wagh, President, K. K. Wagh Education Society, Hon. C. B. Holkar, Trustee, Secretary Prof. K. S. Bandi, Prof. Dr. K. N. Nandurkar Principal and all other trustees appreciated and congratulated the institute for this achievement.



Prof. Anand Kolapkar, receiving the award



Felicitatation of our Student Coordinator

■ Expert Lecture/Seminar/Courses/Worshop Organized:

- Department of Computer Engineering organized Training on "Internet of Things" by Ms. Anita, Ms. Manisha, Cognifront, Nashik on 04th Jan. 2018, the Transform Maharashtra -Leadership Ambassador Program on 12th Jan. 2018 and seminar on "Gender Sensitization at Workplace" by Dr. Vaishali Balajiware on 22nd Jan. 2018. Same department also organized an Expert Talk on "are you safe online" by Mr. Ankit Singh and Mr. Mayur Patil on 24th Jan. 2018, Session for housewives on "How to use Smartphone and its applications?" by Prof. Monali P. Mahajan and Prof. Namrata M. Pagare on 25th Jan. 2018 and Session for senior citizens on "Use of smart phone and e-payment" by Prof. A. V. Taware and Prof. S. T. Patil on 27th Jan. 2018.
- Department of Production Engineering organized an expert lecture on the topic "Advances in Manufacturing Technology" by Mr. Bhaurao M. Sonawane, Sr. Manager (HR-Training & Organizational Development) Hindalco Industries Ltd., Andheri, Mumbai and an expert lecture on the topic "Simulation of Plant Operations, Tool Design and Industry 4.0" by Mr. Jayesh C S Pai, C.E.O, Access – CADD, Nashik. Same department also organized an expert lecture on the topic "Automation with Mechatronics Technology" by Mr. Chetan Bhaskar Thakare, Business Unit Head, Electrical & Software, Stama Summit Machinery Pvt., Ltd., Ambad, Nashik on 25th January 2018.
- Department of Civil Engineering organized an expert lecture on the topic "GIS & Remote Sensing" by Albedo Foundation, Expert Lecture on "Personality Development" by Venky Kankria and Expert Lecture on "Micro tunnelling by Yogesh Killedar. Same department also organized expert Lecture on "RS & GIS" by Gaurav Sathe, Expert Lecture on "Application trends of RS & GIS" by Mr. Vikrant Nikam and Expert Lecture on "Concrete technology & advances" by Mr. Vikas Ramgude.
- Department of Electrical Engineering organized Expert Lecture on the topic, "Entrepreneurship" by Mr. Subhash Rajguru on January 04, 2018, Expert Lecture on the topic "Energy Conservation Devices" by Mr. Shailesh Parashare, Teknocrats Control Systems Pvt., Ltd., on 11/01/2018 and Expert Lecture on the topic "Project

continued on page 8



Guidance” by Mr. John Yesuraj, General Manager- R&D, CG Power and Industrial Solutions Ltd., on 13/01/2018. Same department also organized Expert Lecture on the topic “Gas Insulated Switchgear” by Mr. Rahul Patil, Deputy Manager- R & D, CG Power and Industrial Solutions Ltd., on 27/01/2018.

- Department of Chemical Engineering organized expert lecture on “Solar conduction dryer” by Dr. V. V. Mahajani (Ex. Professor of ICT Mumbai and an Advisory Committee Member of our Institute) on 23rd January 2018, expert lecture on “Scope of Process Modeling and Simulation” by Mr. Shyamshankar Singh (Alumnus of 2003 batch) from Equinox Software and Services Pvt., Ltd., Pune on 10th January 2018 and an expert lecture on “GATE Exam Preparation” by Harishankar from Gateway Institute Pune on 9th January 2018.
- The Department of Information Technology organized a seminar on “Opportunities in Data Analytics” by Mr. Uday Wad, Datamatics Global Services Ltd., Nashik on 19th Jan. 2018.
- Department of MCA has organized Expert Lecture on “Sage Maths” by Mr. Mayuresh S. Pardeshi on 13th January 2018, Seminar on “Women Empowerment through Yoga” by Dr. Minakshi Gawali on 25th January 2018 and Expert Lecture on “Windows Presentation Foundation” by Ms. Harsha Patel on 27th January 2018.
- The Program of Latex was organized in the institute during 19 - 20th January 2018 for PG Students of the institute.

■ Seminars/Workshop/Training attended by Staff:

- Computer engineering staff Nilesh S. Sonawane attended Five days FDP on “Advanced Tools and Technologies using Android Mobile Applications” organized by Department of Computer and E & TC Engineering, at JSPM’s BSIOTR, Wagholi, Pune during 12th - 13th January 2018.
- MCA department Head, Dr. V. C. Bagal attended State level Workshop during 19th to 20th January 2018 on “Social Media as a Mechanism for Business Management” organized by Dr. Moonje Institute, Nashik. Same department staff M. E. Maniyar attended National Level Seminar from 11th - 12th January 2018 on Industrial Internet of Things (IIoT): Opportunities and Challenges organized by Dept of E & TC, R. H. Sapat COE, Nashik.

■ Industrial Visits Organized For Students:

Date	Class	Name of Company
02/01/2018	S. E. Chemical	Abeline Polymers, Ambad, Nashik
12/01/2018	T. E. Electrical	132 kV Sub-Station, Takali-Nashik
19/01/2018	S. E. Chemical	Children Traffic Education Park Mumbai Naka, Nashik
20/01/2018	T. E. Civil (2 nd Shift)	AIMA Exhibition, Nashik
21/01/2018	S. E. Civil (1 st Shift)	Constro Exhibition, Pune
22/01/2018	B. E. Electrical	HVDC, Padghe
22/01/2018	T. E. IT	Hindustan Aeronautics Ltd., Nashik
25/01/2018	T. E. Civil (2 nd Shift)	Viridian Valley Site, Nashik
31/01/2018	B. E. Chemical	VSCL, Nashik

■ Training & Placement :

Name of Company	Name of the Dept.	No. of students selected
KPIT	Computer Engg.	04
L-Cube Innovative Solutions Pvt. Ltd., Chennai	Computer Engg.	03
	IT	01
Netwin	Computer Engg.	03
FACE	Computer Engg.	01
	IT	01

■ Books Purchased in Central Library : Jan. 2018

Sr.No.	Name of Dept.	Total No. of Books purchased
01	MCA	20

■ Congratulations

Principal Dr. Keshav N. Nandurkar received award for Excellence in Institutional Leadership during 15th ISTE Student Convention of Maharashtra and Goa Section at Sandip Foundation’s Polytechnic, Nashik.



Principal Dr. Keshav N. Nandurkar receiving award

■ Other Achievements:-

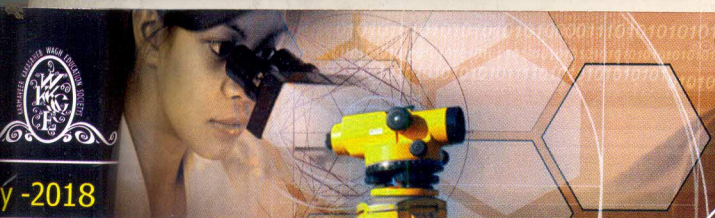
- Principal Dr. K. N. Nandurkar was invited as Guest of Honor by Government Polytechnic, Nashik for inauguration of one week programme on “Research Methodology”. He also gave Expert talk on Research procedure.

■ Abstracts of papers presented during Jan. 2018: Wireless Sensor Network (WSN) for Greenhouse Environment Monitoring

Prof. Ms. Rupali M. Bora, Dr. Mrs. Preeti D. Bhamre & Mr. Saish Chaudhari

(Published in Journal of the Instrument Society of India- Vol. 47, No. 2 ISSN: 0970-9983)

continued on page 9



Abstract: Traditionally agricultural farms are monitored manually for various conditions of soil, water and temperature. In recent years, Wireless Sensor Networks (WSN) have gained an increased interest and importance in many applications that involve remote monitoring and control. Monitoring of various parameters like temperature, humidity and soil moisture is essential for crops like tomato, cucumber, capsicum etc. A technological alternative, which facilitates functional and efficient management of greenhouse is developed using a wireless sensor network. The wireless sensor nodes are designed for collecting and transmitting the information of temperature, humidity and soil moisture parameters to master node. The master node actions are implemented using microcontroller and ZigBee module for wireless communication.

Keywords: Wireless Sensor Network (WSN), Microcontroller

■ Identification of factors influencing the performance of government organizations and undertakings in India using analytic hierarchy process

Prof. Ajinkya Joshi, Prof. Vinayak Deshpande & Prof. Dr. Padmakar Pawar

(Published paper in Journal of Project Management)

Abstract: There are various factors that are responsible for influencing the performance of any government organization. By employing a multiple-criteria decision-making model (MCDM), the study is an attempt to measure reference and thereby identify factors influencing the performance of government organizations and undertakings in India. Important factors that are likely to influence the performance of government organizations and undertakings, including those significant in the current scenario, have been considered. The data were collected from government organizations and undertakings representing different sectors to ensure that the selection of factors was unbiased and fairly accurate. A well-known method for prioritization in case of MCDM known as analytic hierarchy process (AHP) has been employed. The average value obtained for every criterion was used to prepare the paired comparison matrix. Results have showed that e-governance practices and process standardization exhibit greater influence on the performance of government organizations as compared to the other factors.

Keywords: organizational performance; government organizations; process standardization; government undertakings; e-governance practices; multiple criteria decision making; MCDM; analytic hierarchy process; AHP; India.

■ Fundamental Principles of Testing

Prof. V. P. Borse

(Published a paper at International Journal of Science and Research (IJSR), Volume 6, Vol.6, No.2, pp.162 – 176)

Abstract: Software testing is very essential in today's scenario, for this the seven fundamental principles are required which has been observed since last 40 years. This paper describes the principles and examples of for each principle along with their requirement. It also describes how to spot these principles and how to take advantage of them. This will make a better tester. In this paper there is explanation for why testing is required, what are the different steps for testing, what is V- model?

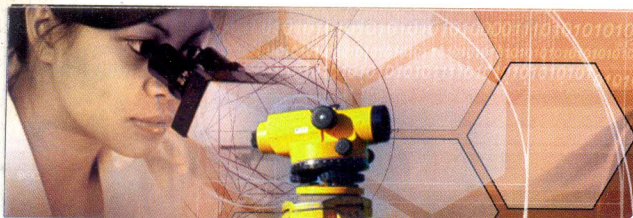
■ Evaluation of Multi-label Classifiers in Various Domains Using Decision Tree

Prof. V. S. Tidake & Prof. Dr. S. S. Sane

(Presented in Intelligent Computing and Information and Communication Proceedings of 2nd International Conference, ICICC 2017)

Abstract: One of the commonly used tasks in mining is classification, which can be performed using supervised learning approach. Because of digitization, lot of documents are available which need proper organization, termed as text categorization. But sometimes documents may reflect multiple semantic meanings, which represents multi-label learning. It is the method of associating a set of predefined classes to an unseen object depending on its properties. Different methods to do multi-label classification are divided into two groups, namely data transformation and algorithm adaptation. This paper focuses on the evaluation of eight algorithms of multi-label learning based on nine performance metrics using eight multi-label datasets, and evaluation is performed based on the results of experimentation. For all the multi-label classifiers used for experimentation, decision tree is used as a base classifier whenever required. Performance of different classifiers varies according to the size, label cardinality, and domain of the dataset.

Keywords: Machine learning, Multi-label classification, Data transformation.



An Effective Multilabel Classification Using Feature Selection

Prof. Dr. S. S. Sane, Prajakta Chaudhari & V. S. Tidake

(Presented in Intelligent Computing and Information and Communication Proceedings of 2nd International Conference, ICICC 2017)

Abstract: Recently, multilabel classification has received significant attention during the past years. A multilabel classification approach called coupled k-nearest neighbors algorithm for multilabel classification (called here as CK-STC) reported in the literature exploits coupled label similarities between the labels and provides improved performance [Liu and Cao in A Coupled k-Nearest Neighbor Algorithm for Multi-label Classification, pp. 176–187, 2015]. A multilabel feature selection is presented in Li et al. [Multi-label Feature Selection via Information Gain, pp. 346–355, 2014] and called as FSVIG here. FSVIG uses information gain that shows better performance when used with ML-NB, ML-kNN and RandSvm when compared with existing multilabel feature selection algorithms. This paper investigates the performance of FSVIG when used with CK-STC and compares its performance with other multilabel feature selection algorithms available in MULAN using standard multilabel datasets. Experimental results show that FSVIG when used with CK-STC provides better performance in terms of average precision and one-error.

Keywords: Algorithm adaptation, Coupled label similarity, Feature selection

■ Manufacturing Excellence for sustainability: Indian scenario

Prof. Dr. K. N. Nandurkar (FIE) & Prof. Dr. P. J. Pawar

(Published at Annual Technical Volume of Production Engineering Division Board, Excellence in Manufacturing published by The Institution of Engineers (India), Kolkata, Volume II, 2018)

Abstract: In today's competitive world, manufacturing is a diverse sector and contributes enormously to the global economy. With new perspectives such as "Make in India" or "Start up India", manufacturing sector in India is expected to accelerate over the next few years. To face the global competition and remain sustainable, Indian manufacturers will have to

change the way of doing business and adopt new technologies. Across the value chain, production processes will be optimized through integrated IT systems. As a result, today's manufacturing cells will be replaced by fully automated, integrated production lines. Due developments in virtual reality, physical prototypes will be reduced to an absolute minimum. This paper summarizes attempts made by industries/researchers in tackling various challenges and implementation of technology drivers for manufacturing excellence. The case studies were published in the 'Proceedings of International Conference on Manufacturing Excellence' edited by the authors recently.

Keywords: Manufacturing excellence, Industry 4.0, intelligent manufacturing.

■ Attendance System for Educational Institute Based On Android Platform

Prof. Dr. P. D. Bhamre & Mr. Vaibhav Baviskar

(Published on International Research Journal of Engineering and Technology (IRJET), Volume : 05, Issue: 01, Jan-2018, ISSN: 2395-0056)

Abstract: In today's world, paper based attendance marking system is used in educational institutes where the teacher calls out students roll number. This is a manual process and is prone to many human errors. There are many different systems with different technologies for attendance marking and monitoring such as finger print based system, biometric based system. But these systems have one or the other drawback. To overcome the drawbacks of traditional systems, we propose mobile enabled attendance recording and monitoring system. It includes a mobile application which can be made available to each teacher and the teacher can run the application and start the process of taking the attendance. The input to the application will be speech which will be converted further to text using android speech libraries. The record can be uploaded to the server at any time for monitoring purpose. The system includes many privileges for students, faculty, head of department & Institute.



Prof. Dr. K. N. Nandurkar
PRINCIPAL

