

### KUDOS

Our College has been ranked 5<sup>th</sup> in the State of Maharashtra in a survey conducted by EDU-RAND ([www.edu-leaders.com](http://www.edu-leaders.com)). Among 850 colleges surveyed our rank was 142 at National level. The ranking in Maharashtra State are 1) IIT Bombay, 2) VNIT, Nagpur, 3) Government College of Engineering, Pune, 4) VIT, Pune and 5) **K. K. Wagh Institute of Engineering Education & Research, Nashik**. This was an internet based survey and colleges were ranked accordingly on the basis of Accreditation score, Faculty qualifications, Research Productivity, Fill rate and employability or placement score.

### ■ Punyatithi Programme

The joint Punyatithi programme of Late Padmashri Kakasaheb Wagh, the social reformer Late Tatyasaheb Boraste and the well-known Philanthropist Kakusheth Udeshi was organized on 22<sup>nd</sup> July 2014. Dr. D. S. Aher (Ex-Minister of Health, Govt. of Maharashtra) was the president of this function. He appreciated the development of K. K. Wagh Education Society. Shri. Shivajirao Patil (Vice President of Rayat Education Society) was chief guest of function. He emphasized on importance of education in life and for the development of nation. He appreciated the work done in initial days by Late Padmashri Kakasaheb Wagh, Shri. Madhavrao Boraste and Shri. Kakusheth Udesi. Both guests were felicitated at the hands of Hon. President of K. K. Wagh Education Society Shri. Balasaheb D. Wagh. For this function Hon. President Shri. Balasaheb Wagh, Mrs. Shakuntalatai Wagh, Mrs. Patil, Vice President Kashinathdada Tarle, Trustee Shri. Changdevdada Holkar,

Trustee Shri. Ashokbhai Merchant, Trustee Shri. D. S. Shinde, Trustee Shri. Vilasbhau Tarle and Ex. MP, Shri. Madhavrao Patil were present on the dais.



Punyatithi Programme was organized in the Institute on 22<sup>nd</sup> July 2014.

### ■ Visit by Prof. P. B. Sharma, Former Vice Chancellor, Delhi Technological University

Prof. P. B. Sharma, Former Vice Chancellor, Delhi Technological University visited our Institute on 3<sup>rd</sup> July 2014. He was felicitated by Hon. President, Shri. Balasaheb Wagh. Prof. P. B. Sharma gave a presentation on 'Leadership Qualities'. For this meeting Secretary Prof. K. S. Bandi, Principal Dr. K. N. Nandurkar, Principals of Polytechnic Colleges and Heads of departments were present.



Prof. P. B. Sharma, Former Vice Chancellor, Delhi Technological University.

### ■ Interview of Mr. Ravi Paranjape at Kusumagraj Smarak, Nashik

An interview of the famous artist Mr. Ravi Paranjape was organized on 30<sup>th</sup> July 2014 at Kusumagraj Smarak, Nashik. He was felicitated by Hon. President, Shri. Balasaheb



Wagh. On this occasion Mr. Ravi Paranjape unfold his journey in the field of art from the childhood. He elaborated the importance of artistic view in our life. He shared his experiences related to various forms of fine art which he developed and achieved the great success.



Felicitation of Mr. Ravi Paranjape

### ■ ISTE online Workshop on “Computer Networking”

A two week online ISTE workshop on “Computer Networking” was organized by the Computer Engineering department during 30<sup>th</sup> June 2014 to 5<sup>th</sup> July. This workshop was conducted in our Institute by IIT Bombay under the National Mission on Education through ICT (NMEICT) MHRD Govt. of India. In this workshop total 14 participants were participated from various institutes. Prof. Patil A. S. (Remote Center coordinator) and Prof. Patil L. A. (Workshop coordinator) coordinated the workshop.



Participants of the online Workshop on “Computer Networking”

### ■ 1<sup>ST</sup> HR Connect-2014 Programme

The objective of this HR connect is to invite the HR Managers of our regular recruiters to our campus and to provide an interactive platform for the Students of third and final year Engineering. Around 150 students and 10 staff members participated in this programme on 10<sup>th</sup> July 2014

organized by T&P Cell of our Institute. Mr. Vishal Gangurde HR Manager-Winjit Industries, Mr. Shaji (Senior HR Manager – Rishabh Instruments) and Mr. Dhananjay Dixit (CEO-Satpuda Industries) have participated in the HR connect. In general all the three HR managers shared General Recruitment process and necessary preparation required to get the competitive placements, They also shared Campus to Corporate: Preparations, DOs and Dons by the students and skill expectations by the industries from young engineers. The programme ended with Questions-Answer Session and vote of thanks by Dr. P. K. Shahabdkar, Training and Placement Officer.



1<sup>st</sup> -HR Connect-2014 Programme

### ■ Entrepreneurship Awareness Programme

On 11<sup>th</sup> July 2014, The Training and Placement Cell of our institute organized an Entrepreneurship Development Programme titled “Industry Motivational Campaign” a programme to motivate the young engineers to become an “Entrepreneur”. This programme was conducted by “Ministry of Micro-Small and Medium Scale Enterprises (MSME), Government of India. Mr. Ankush Sharma from Bank of Maharashtra, Mr. Swpanil Sakurikar from Ministry of MSME and Mr. Sunil Chandak, Director-Udyogvardhni shared their expertise with the students. Programme made the students aware about different facilities provided by the Government for starting an industry, governmental schemes for becoming a successful entrepreneur and business opportunities for starting an industry. The Programme started with the welcoming of speakers by Principal Dr. K. N. Nandurkar and felicitation of all the speakers and ended with Questions-Answer Session and vote of thanks by Dr.P.K. Shahabdkar, Training & Placement Officer.

### ■ Program on E-Waste Management

An ISTE Students’ Chapter of our Institute organized an expert talk on “E-Waste Management” by Dr. Balachndra Kurup,

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Director, International Institute of Waste Management, Bhopal. He shared his views about current scenario and efforts taken by the government and NGO to recycle, reuse E-Waste, how we can minimize the E-Waste and how it could be reused. Around 50 students and 10 staff members attended this expert talk. Principal Dr. K. N. Nandurkar welcomed the speaker.

#### ■ Lecture by Dr. Nandkumar Gilke for NBA preparation

A lecture on NBA preparation was organized in the Institute by Dr. Nandkumar Gilke, Vice Principal, K. J. Somaiya College of Engineering, Mumbai on 3<sup>rd</sup> July 2014. He gave the detailed information about the preparation for outcome based assessment and filling up of new format of NBA to the faculties of the Institute.

#### ■ Sports Activity

Gymkhana department organized Inter-Department Karmaveer Premier league tournament in cricket, Volleyball, Basketball and Football during 08<sup>th</sup> July 2014 to 28<sup>th</sup> July 2014.

India's best athletic Kavita Rauth visited to gymkhana department at 26/07/2014.



Kavita Raut visited to gymkhana department of our Institute

#### ■ Expert Lecture/Seminar/Courses/Worshop Organized:

- Department of Computer Engineering organized an Expert Talk on Placement Preparation by FACE Academy. It was delivered by Mr. Mayur B. K. on 7<sup>th</sup> July 2014., expert talk on "Cyber Security" by Mr. Kshitij Khakurdikar on 18<sup>th</sup> July 2014 and expert talk on "LEX and YACC" by Mr. Nirmik Kale on 19<sup>th</sup> July 2014
- Department of Electronics & Telecommunication engineering organized an Expert talk on 'Introduction to similar sounding words' by Mrs. Nandita Ray on 2<sup>nd</sup> July 2014, one day workshop on 'Aptitude tests, GD and PI' by Shri. Vishal Jategaonkar, PT education, Nashik on 2<sup>nd</sup> July 2014, an

expert talk on Introductory lecture by FACE academy by Mr. Mayur B. K. on 2<sup>nd</sup>, 17<sup>th</sup> and 30<sup>th</sup> July 2014, an Expert talk on 'Speech processing with application' by Mr. J. H. Nirmal, K. J. Somaiya College of Engg., Mumbai on 3<sup>rd</sup> July 2014, Workshop on 'C and Embedded C programming' by Shri. Baviskar, AGM, Crompton Greaves, Nashik on 3 July 2014, an expert talk on 'Science Prospect and Trends' by Mrs. Apoorva Jakhadi, IEI, Shree Engineer on 15<sup>th</sup> July 2014, an expert talk on 'Career Guidance' by Shri. Amit Gore and Ms. Heena Jain, Akshay Academy on 17<sup>th</sup> July 2014. Same department also organized an expert talk on 'Introduction and guidance on MBA as a Career Option' by Shri. Sagar Nikam and Mrs. Madhura, Director, ELC on 24 July 2014, an expert talk on Shri. P. G. Zambre, Deputy Executive Engineer by 26 July 2014 and an expert talk on 'ECU System Engine Technology' by Shri. Milind Desale, M & M, Nashik on 26 July 2014.

- Department of Electrical engineering (First Shift) organized an Expert talk on 'Role of Youngest Engineer' by Mr. Shrikant Karode, Ex. C. G. Nashik on 5 July 2014, an Expert talk on Renewable Energy Sources by Prof. Dr. M. R. Rathi on 11 July 2014, organized an expert talk on 'Roof-Top Solar System' by Dr. O. G. Kulkarni on 17 July 2014 and an expert talk on 'Opportunities for Engineers after Graduation' by Mr. Tambat on 31 July 2014.
- Department of Mechanical engineering organized an Expert Lecture on 'Higher studies in Abroad' for BE Students by Mr. Amey Phatale, FACT Nashik on 20 July 2014, an Expert Lecture on 'Higher studies and GATE preparation' for T.E. students by Mr. Ganesh Bhadange, Gate Forum, New Delhi on 4 July 2014, an Expert seminar on GD, PI and Aptitude training for BE Students by Mr. Kunal Dhakate, TIMES, Nashik on 16 July 2014, and an Expert Seminar on 'Career opportunity in Design Engg. and Siemens Training' by Mr. Sarang Bhong & Mr. Sachin Pawar, Siemens Tech, Pune on 20 July 2014.
- Department of Chemical Engineering organized an expert talk on Environmental Engineering and Science by Mr. S. K. Kshirsagar on 10 July 2014, an expert talk on 'Analytical Techniques by Mr. Rohan A. Pawar on 16 July 2014, an expert talk on 'Public Speaking' by Prof. P. Shriram, Director, UCD Center Nashik on 19 July 2014, an expert talk on 'Career Guidance' by Shri. Sagar Nikam and Mrs. Madhura Shelar, Director, ELC



Nashik on 25 July 2014 and an expert talk on 'Stress Management' by Dr. Ashwinikumar Bhardwaj on 26 July 2014.

- Department of Information Technology organized a session for Interaction with alumni Mr. Ankit Saraf from Nomura Services India Pvt., Ltd., and Mr. Sumit Jansari from Compuage Infocom Ltd., (Alumni of 2010 Batch) on 5<sup>th</sup> July 2014. An expert lecture on 'Recent Trends in IT' by Mr. Sanket Khandare, Project Manager, Winjit Technologies, Nashik on 19<sup>th</sup> July 2014 and a session on "Business Intelligence" by Mr. Amar Nasikwala, Persistent Systems, Pune on 26<sup>th</sup> July, 2014. Same department organized a 10 days training on "Development of Aptitude and Soft Skills" by TechRel Technologies Pvt., Ltd., Pune, a session on "Why GATE exam?" for third and final year students by Mr. Kiran Doddi, Persistent Systems, Pune (Alumni of 2010 Batch) and a session on "Mock Interview" for final year students by Mr. Bhushan Bachav, TCS Pune, Mr. Prateek Jain, Netwin System & Software Pvt. Ltd., Nashik and Shilpa Dhamne, FinIQ Consulting, Pune.
- MBA department organized a Guest lecture on 'International Business Management' by Mr. Satish Gaidhani on 26 July 2014.

#### ■ Seminars / Workshop / Training Attended By Staff:

- Department of Electronics & Telecommunication engineering staff Prof. S. S. Khanke attended Workshop on 'Detailing of core subjects of Sem. III, M.E. 2013 course syllabus' at Sinhgad College, Pune on 11 July 2014. Same departmental staff Prof. S. S. Dongare attended NSS Program officer Annual meeting at Pune University on 30 July 2014.
- Department of Information Technology staff Prof. Rupali M. Bora and Prof. Shital R. Deshmukh attended five days Faculty Development Program on "Cloud Infrastructures and services" by Mr. Pramod Prasad from EMC2, Bangalore from 30<sup>th</sup> June to 4<sup>th</sup> July 2014 organized by Board of Studies, Information Technology at Cummins COE, Pune. Same department staff Prof. Mrunal Patil attended five days Faculty Development Program on "Data Science and Big Data Analytics" from 1<sup>st</sup> to 5<sup>th</sup> July 2014 organized by Board of Studies, Information Technology at Sinhgad College of Engineering, Vadgaon (BK), Pune. Same department staff Prof. Umesh Gaikwad attended one day workshop on "Database Management Systems and Database Management Systems

Laboratory" on 7<sup>th</sup> July 2014 organized by Indian Institute of Technology, Bombay at JSPM's Rajarshi Shahu College of Engineering, Tathawade, Pune. Same department staff Prof. Prajakta S. Vispute along with 3 students from B.E. attended a seminar on "Fire Prevention" organized by Mahindra and Mahindra Ltd., Satpur by Mr. H. S Purohit from NASA, Firetech Inc, Ahmedabad on 23<sup>rd</sup> July 14. Same department staff Prof. Umesh K. Gaikwad attended meeting regarding Industry-Academic Interaction at L&T Infotech, Pawai, Mumbai on 31<sup>st</sup> July 2014.

- MCA department staff Prof. M. R. Sonar, Prof. Ms. S. V. Baviskar, Prof. N. D. Baravkar and Prof. Mrs. A. B. Zambare has attended one week Workshop on "Computer Network" at KKWIEER sponsored by IIT Bombay from 30<sup>th</sup> June to 5<sup>th</sup> July 2014.
- MBA department staff Prof. Ms. Sadhana Wagh attended training at Udyogvardhini during 3 to 4 July 2014. Same department staff Prof. Prashant Tagade attended training at Mahindra & Mahindra Pvt., Ltd., on 18 July 2014

#### ■ Industrial Visits Organized For Students:

Date	Class	Name of Company
07/07/14 to 09/07/14	SE Mechanical (A & B Division)	Indian Tools Pvt., Ltd., Satpur, Nashik
11/07/2014	SE Civil (II <sup>nd</sup> Shift)	At Gangapur Road Site-Riviera
13/07/2014	BE Computer	Winjit IT Company
18/07/2014	BE Electrical	Parle biscuits Pvt., Ltd., Gonde, Nashik
20/07/2014	SE Electrical	Beico Industries, Gonde
24/07/2014	SE Civil (II <sup>nd</sup> Shift)	At Gangapur Road Site-Westwind Meadows, At Panchwati area, Near Dental College Site-Rushiraj Builders
24/07/2014	SE Chemical	Megafine Pvt., Ltd., Nashik
27/07/2014	SE(E &TC), SE(ELTX)	Vaitarana Hydropower station, Vaitarana
27/07/2014	SE Electrical	Beico Industries, Gonde

#### ■ Training & Placement :

Name of the Dept.	Name of Company	No. of students selected
Civil Engg.	Mahindra & Mahindra (Igatpuri)	01
Electrical Engg.	Cable Corporation of India, Sinnar, Nashik	03

#### ■ Books Purchased in Central Library : July 2014

Sr.No.	Name of Dept.	Total No. of Books purchased
01	MBA	25

#### ■ Other Achievements

- Prof. Dr. K. N. Nandurkar was invited as Chief Guest for the felicitation of 10<sup>th</sup> std. toppers at Purushottam English School, Nashik Road on 21<sup>st</sup> July 2014. He was also invited as Jury member by Mahindra & Mahindra Ltd. for F14 i4 team presentations held at Nashik Engineering Cluster, Ambad, Nashik on 31<sup>st</sup> July 2014.

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- Prof. Dr. B. E. Kushare, Head, Department of Electrical engineering offered Electrical consultancy services to Electrical Design of Lotus Resorts, Emerald Park, Mahindra Sona, Guru Govind College of Engineering, MMDC, Mahindra & Mahindra Nashik, Dinning Hall, Dr. Pansare Hospital Sangamner, Project Consultancy & Training, Legrand Ltd. He also offered Energy Audit at Bosch India Ltd., at Nashik, Technova Imaging, Hindustan Times Mumbai, Technova Imaging System, Taloja. Same department staff Prof. J. P. Shah delivered guest lecture on 'Job opportunities for E & TC students in Aerospace Industry' on 21 July 2014.
- Department of Civil engineering staff Prof. V. K. Patil was invited as Guest Speaker by Institution of Engineers, Nashik Local Centre, for giving expert lecture on "Orientation Programme for AMIE Students. He was also invited as Guest Speaker by Mechanical Dept. of K. K. Wagh Polytechnic, Nashik for giving expert talk on 'Admission procedure to Direct Second Year Engineering after Diploma.
- Department of Information technology department staff Prof. Rupali M. Bora delivered expert lecture on 'Oracle database concepts' at K. K. Wagh Woman's Polytechnic, Nashik on 23<sup>rd</sup> July 2014.

#### ■ Abstracts of papers presented during July 2014:

##### Classification and Searching in Java API Reference Documentation

Ms. Monali J. Metkar & Prof. S. M. Kamalapur  
(Published paper in IJCATR in July 2014)

**Abstract:** Application Program Interface (API) allows programmers to use predefined functions instead of writing them from scratch. Description of API elements that is Methods, Classes, Constructors etc. is provided through API Reference Documentation. Hence API Reference Documentation acts as a guide to user or developer to use API's. Different types of Knowledge Types are generated by processing this API Reference Documentation. And this Knowledge Types will be used for Classification and Searching of Java API Reference Documentation.

**Keywords:** API, API Reference Documentation, Knowledge Types, Classification, Searching.

##### ■ A Dependent Set Based Approach for Large Graph Analysis

Ms. Shital Deshmukh & Prof. S. M. Kamalapur  
(Published paper in IJCATR in July 2014)

**Abstract:** Now a day's social or computer networks produced graphs of thousands of nodes & millions of edges. Such Large graphs are used to store and represent information. As it is a complex data structure it requires extra processing. Partitioning or clustering methods are used to decompose a large graph. In this paper dependent set based graph partitioning approach is proposed which decomposes a large graph into sub graphs. It creates uniform partitions with very few edge cuts. It also prevents the loss of information. The work also focuses on an approach that handles dynamic updation in a large graph and represents a large graph in abstract form.

**Keywords:** Clustering, Graph Partitioning, Large Graph, Sub Graph.

##### ■ Particle Swarm Optimization for Gene cluster Identification

Jahagirdar Manasi & Prof. S. M. Kamalapur  
(Published paper in IJCATR in July 2014)

**Abstract:** The understanding of gene regulation is the most basic need for the classification of genes within a DNA. These genes within the DNA are grouped together into clusters also known as Transcription Units. The genes are grouped into transcription units for the purpose of construction and regulation of gene expression and synthesis of proteins. This knowledge further contributes as essential information for the process of drug design and to determine the protein functions of newly sequenced genomes. It is possible to use the diverse biological information across multiple genomes as an input to the classification problem. The purpose of this work is to show that Particle Swarm Optimization may provide for more efficient classification as compared to other algorithms. To validate the approach E.Coli complete genome is taken as the benchmark genome.

**Keywords:** Classification, Drug Design, Protein Synthesis, Particle Swarm Optimization, Transcription Units.

##### ■ Parallelization Strategies for Local Search Metaheuristic Algorithms on GPU

Mr. Swapnil V Ghorpade & Prof. S. M. Kamalapur  
(Published in International Forum of Researchers, Students and Academician's International Journal of Computing on 25<sup>th</sup> July 2014)

**Abstract:** Real life problems are complex and computationally time-intensive. Local search algorithms are powerful heuristics which help to significantly reduce the computation time of the solution exploration space. Solving large size and

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time-intensive optimization problems with this approach requires a large amount of computational resources. GPU computing is recently discovered as a powerful way to tackle these resources. GPU is optimized for throughput that delivers parallel performance much more efficiently than a CPU which is optimized for latency. A heterogeneous coprocessing architecture that combines a CPU with many GPU cores performs better than either alternative alone. Exploration and evaluation of large neighborhoods in Local Search Metaheuristic is a very time consuming for a CPU. GPU computing is getting recognition as a powerful way to achieve high-performance for time consuming algorithms. New approaches are proposed for designs and implementations of LSM over GPU. Memory transfer optimization, thread control and utilization are studied. Great accelerations for large combinatorial and continuous problems have achieved. Parallel Models of Local Search Metaheuristics are reviewed in this paper. The paper also discusses Parallel implementation of the travelling salesman problem using 2-opt and 3-opt algorithm on GPU.

**Keywords:** Parallel Computing, GPU, Local Search Metaheuristics, Combinatorial Optimization

### ■ Stress Analysis of Bolt Used To Connect Two Plates in Circular Array Pattern For Various Loads

Prof. M. S. Sonawane

(Published in International Journal of Current Engineering and Technology ISSN 2277 – 4106, on 22<sup>nd</sup> July 2014)

**Abstract:** Most of mechanical connections are subject to dynamic loads. Rotating and reciprocating machinery generates significant cyclic loads (fluctuating). Same like that the nuts and the bolts play a most important role in the machinery fittings, machinery makings and the constructional purposes too. Threaded fasteners are probably the best choice to apply a desired clamp load to assemble a joint, at a low cost, with the option to disassemble whenever necessary. As bolted connections (joint) are of sever importance in most of the machines and automobiles etc. For each and every application, designing a unique solution has become time consuming and subjective in approach. There is a strong need to include the virtual validation of the design in the process of approval of the concept at the technical level. Lack of 'Analysis' may result

in improperly designed structure of the assembly that might get fail under normal working loads and/or other controlled conditions. It is necessary to design and validation of the bolted connection in less possible time and without any need for experimental testing, as it is not possible practically to do experimental testing for every new design of bolted connection. FEA tools and techniques are being used for stress analysis in bolts used to connect two steel plates in circular array pattern. Experimental test conducted in order to validate the results obtained in FEA.

**Keywords:** FEA, Stress Analysis, bolt, Circular Array configuration, UTM, Shear test.

### ■ Effective Classifier for User's Behavioral Profile Classification

Umesh K. Gaikwad & Dr. S. S. Sane

(Published in International Journal of Computer Science and Information Technologies, Vol.5, No.3 in July 2014)

**Abstract:** Classification of computer users is very useful for assisting them, anticipating their future actions. In addition, it is very useful for making recommendations to a user based on the histories of other users with similar preferences, detecting changes in the behavior of a user, and so on. Several approaches for classifying users are available, however many of them do not consider the changes in user's behavior, as it is essential in some of the categories of users. For example, a computer user behavior is represented as the sequence of commands issued during various sessions. In such cases, the user behavior is not necessarily fixed but rather it changes, it is necessary to consider his evolving nature. Proposed work deals with Prototype Based approach to correctly classify the created profiles. Although there are different strategies are available for generating prototype, it is necessary to investigate effectiveness of statistical distance metrics for prototype creation. The work presented in this paper deals with selection of the best statistical distance metrics for prototype generation. It can be applicable to any environment where user behavior is represented as sequence of actions or events.

**Keywords:** Behavior Recognition, Sample density, Sequence Learning, Prototype Based Classifier, Statistical Distance metrics.

Prof. Dr. K. N. Nandurkar  
PRINCIPAL

