

### ■ Advisory Committee Meeting

The 25<sup>th</sup> Advisory Committee meeting was held in K. K. Wagh Institute of Engineering Education & Research, Nashik on 14<sup>th</sup> June 2014. Chairman Vivek Sawant and other Advisory Committee members were felicitated by Hon. Shri. Balasaheb Wagh, President, K. K. Wagh Education Society. Hon. Shri. Balasaheb D. Wagh also welcomed and felicitated the newly inducted Advisory Committee member Dr. V. V. Mahajani. Advisory Committee members Dr. D. G. Hapase, Dr. D. M. More and Dr. V. V. Mahajani were present for the meeting. Shri. Kashinath Tarle, Vice President, K. K. Wagh Education Society, Trustee Shri. Sameer Wagh, Secretary Prof. K. S. Bandi and Principal Dr. K. N. Nandurkar were present. All Professors, Associate Professors, all HODs of the Institute, Principals and HODs of Polytechnic Institutes and Agriculture allied colleges attended the meeting.



The advisory committee meeting held in the Institute on 14<sup>th</sup> June 2014

### ■ Visit by Hon. Dr. Manohar Joshi, Ex. Speaker of Lok Sabha and Ex. Chief Minister of Maharashtra State

Hon Dr. Manohar Joshi, Ex. Speaker of Lok Sabha and Ex. Chief Minister of Maharashtra State visited our Institute on 24<sup>th</sup> June 2014. He was felicitated by Hon. Shri. Balasaheb Wagh, President, K. K. Wagh Education Society. Dr. Manohar Joshi appreciated the development of K. K. Wagh

Education Society. He guided all staff for the quality education. Vice President Shri. Kashinathdada Tarle, Secretary Prof. K. S. Bandi, Principal Dr. K. N. Nandurkar, Principals of various Institutes of K. K. Wagh Education Society and all Heads of department were present on this occasion.



Visiti by Hon. Dr. Manohar Joshi

### ■ Inauguration of MCA-PGCON 2014

Department of MCA has organized National level conference "MCA-PGCON -2014" on 13<sup>th</sup> June 2014. The chair person was Dr. Sanjaykumar Jain, Director of Januware Consultancy Services and Ex-coordinator of YCMOU. The conference was inaugurated by Principal Dr. K. N. Nandurkar followed by key note address by chair person Dr. Sanjaykumar Jain. The conference aimed at showcase of the dissertation work carried out by the PG students of MCA with the projects, undertaken in various colleges. It provided a platform for MCA students to present and discuss conceptual and experimental work. MCA-PGCON-2014 helped in inculcating research culture among MCA students and to exchange and share technological advances, new research findings and motivate students to do the quality research work. Total 36 participants have been participated from different colleges. Cash prizes were awarded for best three papers.



Inauguration of "MCA-PGCON -2014"

### ■ ISTE online Workshop on 'Computer Programming'



Participants of the online workshop on "Computer Programming"

A two week online ISTE workshop on "Computer Programming" was organized by the Institute in Computer Engineering department during 16<sup>th</sup> June 2014 to 21<sup>st</sup> June 2014 (one week face to face interaction at Remote center). This workshop was conducted by IIT Bombay under the National Mission on Education through ICT (NMEICT) MHRD Govt. of India. This workshop was attended by total 11 participants from various institutes. Prof. Patil A. S. (Remote Center coordinator) and Prof. Nilesh S. Sonawane (Workshop coordinator) had organized the workshop with their teammates.

### ■ Seminar on 'Engineering Admissions 2014'



Seminar on 'Engineering Admissions 2014' was organized by our Institute at Parshuram Saikhedkar Natyamandir, Nashik on 9<sup>th</sup> June'14

Presentations were done by Principal Dr. K. N. Nandurkar and Prof. D. M. Chandwadkar about the Institute and admission process for Engineering Admissions through Centralized Admission Process-2014. It was attended by large number of students and parents from Nashik City.

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

- Department of Computer Engineering organized an expert lecture on 'SWOT Analysis' by Mr. Shrirang Kogekar on 27<sup>th</sup> June 2014 and expert lecture on 'BE Project Guidance' by Ms. Anuja Kulkarni on 28<sup>th</sup> June 2014. ELC and Techrel sessions were also conducted for BE Computer Engineering Students on 25<sup>th</sup> and 27<sup>th</sup> June 2014 respectively.
- Department of E & TC organized an expert lecture on 'Need of Electronics in Industries' by Mr. Sanjay Chaudhari, Director, Electronics Study Centre, Jalgaon. Same department also conducted workshop on 'Basics of Android Programming'.
- Department of Electrical Engineering organized an expert talk on 'Project Guidance' by Mr. John Yesuraj, GM, Crompton Greaves, Nashik on 28<sup>th</sup> June 2014. Same department also organized an expert talk on 'Career Guidance' by Prof. Dr. B. E. Kushare, Head, Electrical Engg. Dept.
- The Department of Information Technology has organized 10 days training on "Development of Aptitude and Soft Skills" by TechRel Technologies Pvt., Ltd., Pune. 68 final year IT students participated in the workshop. The first phase of this training was conducted during 26<sup>th</sup> to 30<sup>th</sup> June, 2014. Mr. Kartik conducted the first session on Aptitude skills and Ms. Anjali Atre trained the students for Language skills.
- MCA Department organized an Expert Lecture on "Industrial Challenges and C++" by Mr. Vijaymani Gulati from Persistent Systems Ltd., Pune on 28<sup>th</sup> June 2014.

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

- Principal Dr. K. N. Nandurkar and Prof. P. K. Shahababkar attended the 3<sup>rd</sup> Nashik Zonal Council meeting of CII at NIWEC, Nashik on 11<sup>th</sup> June 2014.
- E & TC Departmental staff Prof. S. C. Shinde, Prof. S. V. Shelke, Prof. K. P. Shinde, Prof. S. S. Ansari, Prof. K. S. Navale, Prof. A. P. Kaur, Prof. S. S. Dongare, Prof. P. P. Patil, Prof. A. Dangare, Prof. Swati Zambre and Prof. Parag Monde attended orientation workshop at Pune during 12-14 June 2014.

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- Computer department staff Prof. N. S. Sonawane, Prof. S. M. Malao, Prof. S. S. Bhandare, Prof. J. R. Mankar, Prof. R. H. Jadhav, Prof. A. V. Taware, Prof. J. N. Thakur, Prof. Umesh Gaikwad of IT Department and Prof. R. A. Gangurde of MCA Department attended one week online workshop on "Computer networking " from 16<sup>th</sup> to 21<sup>st</sup> June, 2014 organized by Indian Institute of Technology, Bombay at Department of Computer Engineering, KKWIEER, Nashik.
- Prof. Dr. V. S. Mane, Head of Chemical Engineering department and Prof. G. B. Daware attended the one day seminar "Analytical instruments and food safety", organized by Agilent Technologies at Hotel Express Inn, Nashik on 25<sup>th</sup> June 2014.

### Declaration of FE Results

The First year Results were declared online by University of Pune for FE (2012) course on 28<sup>th</sup> June 2014. Summary is as follows:-

Year	No. of Students appeared	Passed in all Subjects	Passed with ATKT	Total Students Pass	Percentage Result
2012-13	802	485	203	688	85.78
2013-14	854	519	221	740	86.65

### NSS Activities

- During 8<sup>th</sup> to 17<sup>th</sup> June 2014, our students Mr. Shivam Pathade and Kishor Choudhari participated in 'Avhan 2014: Chancellor's Brigade' organized by Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.
- On 27<sup>th</sup> June 2014, four NSS volunteers (Ms. Ahire Sayali, Ms. Vanjari Anuja, Ms. Patil Vrushali and Ms. Patil Rina) actively participated in 'The Round Table Conference on Environment Awareness' organized by Matoshri College of Engineering and Research Centre, Eklahre, Nashik.

### Papers presented by Students :

- In month of June 2014, 09 Students of our Institute participated in various paper presentations. Out of which
- Ms. Mamta S. Patel of MCA Department secured 1<sup>st</sup> Prize in paper presentation competition entitled 'Missed2 Suite' at "MCA-PGCON-2014" on 13<sup>th</sup> June 2014 organized at KKWIEER, Nashik.

### Industrial Visits Organized For Students:

Date	Class	Name of Company
27/06/2014	T. E. Electrical	11 KV Substation Visit, K. K. Wagh Engineering College Campus

### Training & Placement :

Name of the Dept.	Name of Company	No. of students selected
MCA	KPIT, Pune	01

### CONGRATULATIONS



Prof. D. M. Chandwadkar, Head of E & TC department awarded Ph.D. from Pune University. His topic was "Identification of musical instruments and "Swar/Raga" in Hindustani classical music using signal processing techniques" under the guidance of Dr. M. S. Sutaone.

### Other Achievements

- Principal Dr. K. N. Nandurkar was invited as Chief Guest for inauguration of CBSE pattern schools started by K. K. Wagh Education Society, at DGP Nagar and Saraswati Nagar Campus, Nashik on 2<sup>nd</sup> June 2014. He was also invited as guest of Honor for Prize Distribution of Football Tournament organized by Decthalon Sports on the College ground on 7<sup>th</sup> June 2014.
- Prof. Dr. B. E. Kushare, Head, Electrical Engg. Dept. offered Electrical consultancy services to Energy Audit at Bosch India Ltd., at Nashik and Energy Audit at Technova Imaging. He also offered Electrical consultancy services to Electrical Design Substation MMDC Nashik, Accommodation Block Electrical Design MMDC Nashik and Electrical Design in Bosch Nashik.
- To track the performance of interns, Prof. V. C. Bagal, Prof. A. L. Rane, Prof. M. E. Maniyar, Prof. M. R. Sonar and Prof. P. G. Fegade have visited to Corebiz Technology, Nashik during 16 - 18<sup>th</sup> June 2014.

### Abstracts of papers presented during June 2014: Knowledge Generation in Java API Reference Documentation

Ms. M. J. Metkar & Prof. S. M. Kamalapur

(Published in International Journal of Application or Innovation in Engg. & Management, 20/6/14)

**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. This work focuses on Knowledge generation in the Java API Reference Documentation.

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

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### ■ A Partitioning Method for Large Graph Analysis

Ms. S. R. Deshmukh & Prof. S. M. Kamalapur

(Published in International Journal of Application or Innovation in Engg. & Management, 20/6/14)

**Abstract:** Large graph is one complex data structure. It is used to store and represent information. One must understand its structure and able to decompose it properly without any loss of data. Partitioning or clustering methods are used to decompose a large graph. The proposed graph partitioning method decomposes a large graph into sub graphs. It finds most connected components of every sub graph which are used to form hierarchical representation of sub graph.

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

### ■ Swarm intelligence based Gene classification

Ms. Jahagirdar Manasi M. & Prof. S.M. Kamalapur

(Published in International Journal of Scientific Research and Publications, 16<sup>th</sup> June 2014)

**Abstract:** The classification of genes is quite important in the understanding of gene regulation. 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 improve the results of classification as compared to other algorithms. To validate the approach E.Coli complete genome is taken as the benchmark genome.

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

### ■ Deadlock Detection in Distributed Database

Mrs. I. Priyadarshini & Prof. Dr. S. S. Sane

(Published in International Journal of Research in Computer engineering and electronics, June 2014, Vol 3, Issue 3)

**Abstract:** In a distributed database, data resides in various sites and several transactions originate at all the sites randomly needing data item from two or more sites. These transactions execute concurrently and thus may lead to a deadlock in which transactions may enter into an infinite waiting state. Therefore, the deadlock handling is an important activity in transaction processing. Thus the database system uses an algorithm for detecting deadlock. The task of deadlock detection is complex

in case of a distributed database systems as compared to the centralized system because of presence of multiple sites and communication links and a fear of failure of a site or a link and message delays etc. The deadlock detection algorithm usually maintains a wait-for-graph and periodically checks that it is free of cycles to ensure that the system is not in a deadlock. The algorithm needs to take care of false deadlock cycles under the circumstances of site/link failures and delays in message delivery. Various approaches exist for detecting deadlock in a distributed database system. These algorithms are either centralised or distributed. However many of the these algorithms does not support data replication. Data replication improves availability at the cost of additional storage space. However, as the cost of storage is becoming cheaper and cheaper, the modern distributed systems prefer algorithms that are capable of detecting deadlocks in the presence of data replication. The paper deals with the implementation details of one such deadlock detection algorithm in an replicated database environment.

**Index Terms:** Distributed Database, Deadlock, False Cycle, Replication.

### ■ Parallelization of Multipattern Matching on GPU

Mr. Gaurav K. Bhamare & Prof. Satish S. Banait

**Abstract:** Pattern matching is a highly computationally intensive operation used in SNORT system but due to the increasingly storage capacity and the link speed the amount of data that need to be match against pattern is increased rapidly and traditional system is fail to match that data. GPU Computing Have attracted lots of attention due to their large amount of data processing. The algorithm proposed In this paper is use for exact pattern matching on GPU. Among some famous algorithms, the Aho-Corasick Algorithm match multiple pattern simultaneously. Signature matching is important Technique in virus/worm detection, but traditional Aho-corasick algorithm was developed only for string and virus/worm signature could be in regular expression . In this research work new guidelines are proposed for an efficient GPU adaptation of aho-corasick algorithm for regular expression matching. Also several technique is introduced to optimization on GPU, including reducing global memory access, storage format for output table. To evaluate performance proposed system will use SNORT virus database. Proposed algorithm Implemented on NVIDIA GTX-680 Graphics card using CUDA.

**Keywords:** Aho-Corasick, CUDA, Graphics processing Unit, Pattern Matching, SNORT, DFA, regular expression.

Prof. Dr. K. N. Nandurkar  
PRINCIPAL

