K.K. Wagh Education Society's

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

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TECHNICAL NEWS LETTER

Inauguration of "ETC 2016"

International Conference on "Emerging Trends in Computing" was organized by Computer Engineering Department of our institute during 17-18th June 2016. The Chief Guest was Mr. Atul Kahate for inauguration on 17/06/2016. The president of K. K. Wagh Education Society Shri. Balasaheb D. Wagh felicitated to the Chief Guest on this occasion. Principal Dr. K. N. Nandurkar, Prof. Dr. S. S. Sane (Head of Computer Engg. Dept.), Prof. Dr. Mrs. Varsha Patil, Prof. N. M. Shahane, Prof. Dr. Mrs. S. M. Kamalapur, Prof. Kharat other staff and participants of the conference were present.

Inauguration of ECT 2016 on 17th June 2016

International Yoga Day Celebration

The International Yoga Day on 21st June 2016 was celebrated with full honor by our institute at Late Smt. Meenatai Thakare Stadium in association with पतंजली योग समिती, नाशिक. For this Principal Dr. K. N. Nandurkar, All staff and students were present on this occasion.

Celebration of International Yoga Day on 21st June 2016

Karmaveer Premier League

"Karmaveer Premier League" has been started from 27/06/2016 by Gymkhana Department of our institute. In this league various sport conducts as below

- Cricket
- Football
- Volleyball (men and women)
- Basketball (men and women)
- Table-Tennis (Individual)
- Chess

Cricket tournament started on 27/06/2016 and inaugurated by Prof. Dr. P. B. Khushare, Prof. S. D. Barahathe, Prof. Vilas Patil and Prof. Atul Patil and Sport Director Prof. T. K. Kandekar.

Inauguration of Cricket tournament of "Karmveer Premier League" on 27th June 2016

सकाळ - प्रवेशाचा गेट वे

Programme live telecast organized in two seminar halls of our institute for students interested in getting admission to Engineering Courses on 18th June 2016. There was good response from parents and students. The live guidance was provided by the DTE Mumbai in association "Sakal Paper".

Expert Lecture/Seminar/Courses/Worshop Organized:

- Computer engineering department organized Technical Test on Java and Data Structure using In Pods on 24th June 2016 and APART Introductory Session for TE students on 28th June 2016.
- E & TC Engineering Department organized

"Interactive Session by APART trainer for TE E & TC & ELTX students. Also five day training programme (phase 2) by APART trainer for BE E & TC & ELTX students during 24th to 29th June 2016 was arranged.

Seminars/Workshop/Training attended by Staff:

- Principal Dr. K. N. Nandurkar participated in "National Board of Accreditation (NBA) Workshop" at GNVS Institute of Management, Sion (E), Mumbai on 11th June 2016.
- E & TC Engineering Departmental Staff Prof. R. R. Khinde, Prof. R. V. Chothe, Prof. V. R. Lele, Prof. V. R. Takate, Prof. N. M. Bhujbal, Prof. S. D. Patil, Prof. K. P. Shinde, Prof.S. S. Ansari, Prof. P. J. Monde, Prof. P. R. Thakare, Prof. K. K. Kulkarni and Prof. D. Khartad have attended Faculty orientation workshop on "SE(E & TC/Elex) revised syllabus 2015" during 9th to 11th June 2016 organized in association with SSPU Pune.

Other Achievements:

Principal Dr. K. N. Nandurkar was invited as Chief Guest on 22nd June 2016 for anniversary celebrations of Godavari Secondary School at Shingave Village. Prizes were given to top scorers of the 10th std. examination.

Abstracts of papers presented during June 2016:

Reduction of cycle time of an Electro-Hydraulic Circuit used in an Automated rod both ends chamfering SPM by simulation and PLC

Prof. Bhandare Ramesh V., Prof. Pardeshi Mohansing R & Prof. Bhagure Amit D.

(Published in International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE)

Abstract: The rods which are automatically chamfered on both ends simultaneously by this SPM uses electro-hydraulics control system for all of its operations. The operation such as loading-unloading of job onto the v-blocks, clamping- de-clamping of job and feeding the tool over the rod ends all is done by hydraulic cylinders controlled by DCV's which are solenoid operated. The hydraulic circuit used previously is replaced by a improved circuit which is more efficient, reduces the cycle time, all operations are synchronized and improves the production eventually leading to more profits out of same inputs. The existing circuit had unsynchronized clamping, less efficient, idler running pumps and less production than what could have been achieved. These drawbacks were overcome by using two extra DCV's and a sophisticated circuit which is synchronized, more efficient no idle running pumps and yields more production. The new and improved circuit is simulated in FESTO Fluid-Sim hydraulic software using a PLC ladder diagram which agrees with the results obtained analytically.

Analytical, Experimental and Numerical Analysis of Passive Damping Treatment of Butyl Rubber

Prof. Pankaj R. Beldar

(Published in International Research Journal of Engineering and Technology (IRJET))

Abstract: Vibrations of structures may cause many problems such as structural fatigue, unbalanced forces in machines, external excitations. It is important to reduce these unwanted vibrations, in order to increase the lifetime of structures. One of the technique adapted for the suppress severity of vibration is passive vibration technique which is used in structural dynamics to control vibration. Passive damping method is adding a layer of damping which is highly dissipative material like viscoelastic material and applied to metal objects to increase the damping in the total structure. Adding these materials to a structure or material system improves the vibration response by reducing the response and reducing noise transmission. Effect of damping is considerable in machine components and structures. To avoid or eliminate structural vibration passive damping resonant peak response, reducing settling time of the treatment comes in picture. For accounting the damping effects, lots of research and efforts have been done in this field to suppress vibration and to reduce the mechanical failures with different viscoelastic materials. Testing is performed on NI-LAB view with analytical modelling in MATLAB and fem analysis in ANSYS-15 keyword- damping treatment, CLD, FLD, Damping factor, loss factor.

Prof. Dr. K. N. Nandurkar
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