

GKM COLLEGE OF ENGINEERING AND TECHNOLOGY

RESEARCH AND DEVELOPMENT

NEWSLETTER

Volume 1, Issue 1, July 2014

Program organized by faculty Members

Mr. Balamurugan, Assistant Professor, Department of Electrical Engineering has organized a faculty development program sponsored by Anna University on Electronic Devices and Circuits.

Program Attended by faculty members

Mrs. P. Nasreen Fareedha, Assistant professor, Department of Physics, **Ms. N. Jayasudha**, Assistant professor, Department of English, **Mrs. G. Sasikala & V.E. Sasikala**, Assistant professor, Department of Maths have attended a bridge course which was conducted by Center for Faculty development, Anna University during the month of June.

Mr. S. Kumar, Assistant professor, Department of Mechanical Engineering has attended a faculty development program on Fluid Mechanics at Anand Institute of Higher Technology which was sponsored by Anna University.

Ms. H. Bridha, Assistant professor, Department of Electrical and Electronics Engineering has attended a faculty development program on Special Electrical Machines at Karpaga Vinayaga college of Engineering which was sponsored by Anna University.

Mrs. D. Meena Hema Gandhi, Assistant professor, Department of Electrical and Electronics Engineering has attended a faculty development program on Electromagnetic Theory at KCG college of Engineering and Technology which was sponsored by Anna University

Mrs. R. Bula, Assistant professor, Department of Electrical and Electronics Engineering has attended a faculty development program on Transmission and Distribution at Easwari Engineering College which was sponsored by Anna University.

Research activity of faculty members

Dr. M.Prabhu, Assistant professor, Department of Chemistry has got his doctoral degree from Barathidasan University under Bio Inorganic Chemistry.

One PhD research scholar (Mr.S. Karunakaran, Reg no: 1413799739) has been granted provisional admission at Anna University, Chennai, under the guidance of **Dr.C. Meganathan**, Assistant Professor, Department of Physics.

Faculty Publication

L Kavisankar, **C Chellappan**, P Sivasankar, Ashwin Karthi, A Srinivas, A pioneer scheme in the detection and defense of DrDoS attack involving spoofed flooding packets, KSII Transactions on Internet and Information Systems (TIIS), pp.1726-1743, 2014.

T. Ruso and **C. Chellappan**, " POSET: Network Coding Multicast in Application Layer," International Journal of e-Education, e-Business, e-Management and e-Learning vo. 4, no. 1, pp. 37-41, 2014.

G. Murugesan, **C Chellappan**, Multi-source task scheduling in grid computing environment using linear programming, International Journal of Computational Science and Engineering, Inderscience Publishers, pp.80-85, 2014.

Prakash R, K.M Mehata, **C. Chellappan**. "A novel hybrid authentication method based on orientation maps and server aided signature for m-commerce secured transactions." Journal of Theoretical & Applied Information Technology 64.1 2014.

S Asha, **C Chellappan**, Partial Fingerprint Matching Using Minutiae Subset, Intelligent Computing, Networking, and Informatics, Springer India, pp. 445-452, 2014.

Geetha, N.B. and Velraj, R. 'Experimental and Computational Investigations for Passive Cooling of Cabin through Natural Sources' Vol. 158, Issue. 7 of SYLWAN journal (ISSN: 0039-7660) (2014)

Geetha, N.B. “Augmenting Natural Ventilation Using Solar Heat and Free Cool Energy for Residential Buildings”, Carbon science and technology (Article in press), 2014.

S Balanagammal, R Mahalakshmi, “Growth, optical and dielectric studies of Tyrosine-doped Glycine “ Optik (2014), 125(13), 3027-3029.

Aran Glenn.J & **S.Thangalakshmi** , "Optimal Arrangement Of Different Types Of Distribution Generation Resources In Distribution Networks", International Journal of Innovative Research in Engineering & Science , vol.3,no3, pp 39-46,2014

Thangalakshmi.S & Valsalal.P , " Congestion Management By Optimal Allocation Of Facts Controllers Using Hybrid Fish Bee Optimization ",Journal of Computer Science,vol 10,no10 ,pp 1766-1775,2014

Thangalakshmi.S & Valsalal.P , " Congestion Management In Restructured Power Market Using Artificial Bee Colony Optimisation" ,International Journal of Innovative Research in Engineering & Science ,vol.4,no 3, pp 1-15,2014

R.Kirub and **S.M.Balamurugan** , "Implementation of Telematics using CAN in ARM Platform for Locomotives path surveillance",IJAICT vol 1,issue 1,2014

R.Beula , S.Sashan,"Implementation Of Solar And Wind Hybrid System For Rural Electrification", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering ,vol.3,special issue 1,pp 43-50,2014

Ms.R.Sajana,**Mrs.X.Mercilin Raajini,**" Performance Of Beacon Message Communication Between Vehicle To Vehicle And Roadside Assistance", International Journal of Emerging Technology & Research vol.1, issue 4,2014

Ms.Rekha.V , **Mrs.X.Mercilin Raajini**, "Navigation and Voice Recognition Robotic Dog Guides for Visually Impaired People with Multidegrees of Freedom", International Journal of Emerging Technology & Research, vol.1, issue 4,2014

S.Poornima,**I.Juliet** Shanthakumari," Fault Ride-Through of a Wind Turbine using a Dynamic voltage restorer with cascaded H-Bridge multilevel inverter", International Journal of Innovative Research in Science, Engineering and Technology ,vol.3,special issue 1,2014

Anu Racheal Alexander,**H.Brindha**," Sliding Mode Control Based Improved Linear sinusoidal Tracer Control Algorithm for DSTATCOM ",International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering , vol.3,special issue 1,2014

External Recognition

Dr. M. Prabhu has participated an International conference on “Advances in New Materials” conducted by department of Inorganic Chemistry, during 20 and 21 July, 2014 at university of Madras.

Invited Reviews

Dr. N. B. Geetha, reviewed the following articles: 1. “Big data analysis (business analytics) in agriculture and forestry; A bibliography review” and 2. “Energy consumption in schools - a review paper” for the journal of Renewable & Sustainable Energy Reviews.

Dr. R. Mahalakshmi, reviewed the article on “Cristal Growth” in Elsevier Journal.

Industry Institute Interaction

Students' activity

Mr. Vasantha kumaran, Mr. Ramakrishnan, Mr. Jayapushan, Mr. Aravind and Mr. Prashanth from Department of mechanical Engineering have visited 8 MSME companies and taking detailed survey about what are all the problems have been faced by those companies and they are providing solution for those companies through Internship.





Finally they have concluded that all the small scale industries are in same condition and the expectation among all these micro scale industries to save time and increase production and medium scale industries are good in man power but they need some changes in olden day working process. Finally all the industries concentrating in order to produce more quantity of products in less duration of time in low cost and they need some changes in the normal centre lathe with the upgrades with pneumatics or hydraulic moment system to reduce time and they got some idea and they have to make it as design as soon as possible during their internship.

Student's Interdisciplinary Project

Mr. Gopalakrishnan & Mr. Thirumurugan (IV EEE) and Mr. Nelson, Mr. Panner selvam and Mr. Vignesh (IV YEAR MECH) have started to make solar pump for GARDEN of GKM CET.

Ms. T.Jenifer & Ms. S.Muthukumar (BIO MEDICAL), Mr. Aswath & Mr. Raghvendran (AERO), Mr. Arunpandian & Mr. Jacob Britto (IV EEE), Ms. R.Pavithra II CSE A & Ms. K.Radhika II CSE B, Mr. Aeron Raj kumar Sanjay & Mr. Vinoth.S (II ECE), Mr. Prem & Mr. Ruben raj (II CIVIL), Mr. Parthiban and Mr. Muthamizh (II IT) and Mr. Jayaprakash, Mr. Hemanathan, Mr. Shyam, Mr. Kameshwaran & Mr. Abeshek Parthasarathy (II MECH) have

planned to conduct one campaign at GKMCET and Tambaram on “Solid Waste Management” to safeguard the environment.