**Editor's Desk**

It gives me great opportunity to present the seventh issue of MAPAN, the measure of progress. The past year was full of various activities by the students and faculty in academic, cocurricular, extra-curricular as well as research & developments. Most significant developments include the emergence of MEMS design center and the modernization of biomedical instrumentation laboratory. New techniques, designs and more computing power are driving significant advances in the instrumentation engineering. T.E.(Instru) class won the Best Sport Class award this year. While going to press, the National Board of Accreditation (NBA) committee visit is scheduled in July 2011; this will give us the chance to see the reflection of our progress and achievements. Wish you all best luck!

-Jayanand P. Gawande
Editor

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**HOD's Message**

Dear Students,

Welcome to the new academic year 2011-12. We have many challenges in this academic year. The NBA committee will be visiting our department. This is the fourth time that we are going for NBA accreditation and I hope that our department will get the accreditation again. I am very happy that many teachers of our department are enrolled for Ph.D. program and their research will affect in their teaching. Our post graduation program is also going on successfully and our PG students presented no. of papers in national and international conferences.

‘MAPAN’, the measure of progress, is edited by Prof. Gawande. We are thinking to have student contribution in the magazine.

Prof. Ashok D. Gaikwad
Head of Department
The Staff of our department is highly motivated. This year; six papers were published at IEEE International Conference on Digital Convergence, ICDC 2011, February 2011, Chennai, India, by Mrs. Dipali Ramdasi, Mrs. Nivedita Daimiwal and Ms. Revati Shriram on the following topics:

1. ‘Study of Heart Motion using Tagged MR Images’
2. ‘Transmission of Multiple Physiological Parameters using Zigbee’
3. ‘Noninvasive Continuous Measurement of BP Based on Peak Detection and Decomposition Analysis of PPG’
4. ‘Neonatal Total Parenteral Nutrition Control Using Zigbee Protocol’
5. ‘Noninvasive Blood Pressure Meter System for Long-Term Continuous Cuffless Measurement’
6. ‘Wireless Fall Detection for elderly using Embedded System’

Prof. V. D. Hajare, Prof. J. P. Gawande, Prof. Mrs. Swati Madhe has enrolled for the PhD Program in Instrumentation Engineering at SSGGSIE&T, Nanded under Swami Ramanand Teerth Marathwada University Nanded.

Prof. A. D. Gaikwad and Prof. Y. G. Adhav had delivered presentation on Progress of Cummins MEMS, R&D Center at IISC Bangalore during 22nd to 24th October 2010.

Prof. Y. G. Adhav has delivered expert lecture on “Process Plant Instrumentation” at A.G.Awate college of Engineering Hadapsar, Pune on 16th March 2011.

Prof. J. P. Gawande and Prof. Y G. Adhav attended a STTP on ‘Design tools for Photonic sensors and waveguide components’ at Department of Electronics Science, University of Pune during 19-20 September 2010.

Prof. Y. G. Adhav attended the conference on ‘COMSOL Multiphysics’ at Bangalore in 29-30 October 2010.

**Bringing new technology at the Department:**

The department had received a grant of Rs. 5 Lacks from MODROBS AICTE for the Optical Instrumentation Lab under which an “Optical Time Domain Reflectometer” is added to this Lab.

The department had also received a grant of Rs.10 Lacks for modernization of the Biomedical Lab from AICTE. The department has purchased, a Bio-signal Data Acquisition System, “Power Lab 26T” which can acquire, signal condition & preprocess biosignals like ECG, PCG, Heart Rate, Respiration Rate, etc. It also has a PC interface and a powerful software support for displaying biosignals in graphical format.

**MEMS Research and Design Centre** started at Cummins College of Engg. For Women, Pune in support of National Program on Micro and Smart Structures (NPMASS) and ISSS, Govt. of India.

Mr. Vishwas Deval, Chairman MKSSS, Dr. Mrs. M. B. Khambete, Principal, Prof. A.D. Gaikwad, Prof. S.K. Kulakrni and Prof. A.K. Joshi graced this occasion of inauguration of MEMS Centre on 20th Sept. 2010.

**Parking Assistance Project**
Stars of Instrumentation and Control department
The staff and students of the department would like to congratulate the following students for their performance in May-June 2010 University Examination:

S.E.
1st Rank  Ms. Aditi Bhalerao
2nd Rank  Ms. Divya Kadam
3rd Rank  Ms. Divya Vasudev
4th Rank  Ms. Devika Oak
5th Rank  Ms. Nishita Sant
6th Rank  Ms. Kanchan Bhagawat
7th Rank  Ms. Hima Bindu
8th Rank  Ms. Shilpa Joshi
10th Rank Ms. Azba Sardar

T.E.
1st Rank  Ms. Shruti Lokhande
2nd Rank  Ms. Anagha Mutatkar
2nd Rank  Ms. Sheetal Koul
3rd Rank  Ms. Roopa Nadgiri
7th Rank  Ms. Apoorva Pendse
9th Rank  Ms. Neha Kamatkar
10th Rank Ms. Arshia Khajuria

B.E.
2nd Rank  Ms. Prachi Tajane
3rd Rank  Ms. Pooja Kavathekar
4th Rank  Ms. Asmita Abhyankar
5th Rank  Ms. Madhura Barvekar

Best Outgoing student
Ms. Nishita Jalihal was awarded as best outgoing student of the department for her all round performance during the year 2010-11.

The GE scholarship
Ms. Roopa Nadgiri was awarded the GE Scholarship for the year 2009-10.

Purdue Program
Ms. Nishigandha Railkar was selected for the MS program at Purdue University from our department.

Heartiest Congratulations to all of them!

Extracurricular Competitions
Ms. Ridima Pathak was Runner up in National Level Inter College competition of Debate 2010 sponsored by Common Wealth Games.
Ms. Priti Bora won first prize in paper presentation at Jishin-11, Bharati Vidyapeeth Pune and second position at the Inter college National Level event Presentation Competition: under ‘Excelsior 2k11’ held at Sinhgad College of Engineering, Pune, and also second prize at Versatalia-11.

Ms. Debolina Sen, Ms. Sandhya Soni, Ms. Sheetal Thube won the third prize for presenting paper on MEMS Technology in “Bhartiyam 2011”.

Ms. Vratika Taki and Ms. Sweety Agarwal have actively participated in National Robotics contest Robocon-2011.

Ms. Radhika Maini has participated in various Basketball tournaments where her team won the first place at Pentacle 2011and PICT Elevate, Second place in PACE-11 and HEAT at RSCOE-11. She was also awarded “Man of the Match” in BVP basketball tournament.

Ms. Chaitra Kanhere won the gold medal for 100m Breaststroke and a silver medal 100m freestyle at Zest 2011. She has also represented Pune University Zone in the Inter Zonal Swimming competition held at Nasik. She won second prize in Milange 11 for 50m and 100m freestyle competition held by VIT. In ‘Summit 10’, a National Level inter engineering sports event, she got a first prize for 50m and 100m freestyle swimming.

Ms. Nishita Jalihal and Ms. Priyanka Gholap had participated Enduro 3 cycling and tracking competition and they got first prize in “All Girls” category.
Ms. Swarada Kshirsagar’s team was winner at Inter college Basket ball competition PENTACLE-2011 and runner up in Basketball competition HEAT 2011, DAMINI-11, AIT-2011. Ms. Poorva Kuber got the “Best Player Trophy” in Milange Table Tennis held at BITS PILANI GOA. She also represented Pune University in West Zone Table Tennis Matches. She is a Runner up in MIT Summit 2011.

Ms. Swarada Kshirsagar’s team was winner at Inter college Basket ball competition PENTACLE-2011 and runner up in Basketball competition HEAT 2011, DAMINI-11, AIT-2011.

Paper/Project Presentation
Following M. E. Students have presented 6 papers in National Symposium on Instrumentation (NSI-35) held at Visvesvaraya Technological University, Karnataka: Mrs. Pratima Kulkarni, Ms. Vidya Hardare, Ms. Neha Dutte, Ms. Nivedita Depujari, Mrs. Sayali Gadre, Mrs. Manju Kulkarni

Mrs. Seema Labdi, Mrs. Sheetal Kulkarni, Mrs. Swati Gaikwad M. E. Students presented 3 papers in National Conference on Biomedical Engineering held at Nandurkar college of Engineering, Yavatmal.

Mrs. Manju Kulkarni presented a paper titled ‘Liveness Detection in Finger print Recognition Technique using 1st order texture Features’ at Sabbatical’11, at Bharat Ratna Indira Gandhi COE, Kegaon, Solapur

Mrs. Sayali Gadre presented a paper titled ‘Automated Analysis & diagnosis of Breast Cancer using nuclear electro morphism’ at ICACCN’11, Sponsored by INNS & UACCE at Chandigarh

CAMPUS PLACEMENTS 2010-11
The following students of the Instrumentation and Control dept. have been placed in the academic year 2010-11:
EMERSON: Monika Preeti, Pradnya Ghawalkar Prajkta Bhanap, Neha Kamatkar

FORBES MARSHALL AWARD
For the past fourteen years, Forbes Marshall is appreciating the untiring efforts of the final year students by awarding a prize to the most outstanding final year project. This year this prestigious award was bagged by Ms. Asmita Abhyankar, Ms. Madhura Barve, Ms. Aditi Deshpande for the project titled ‘Crimp Pull Tensometer’ under the guidance of Prof. Atul Joshi.

Please feel free to give your feedback on cummins_instru_teachers@yahoo.com
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