

**Volume : 02**  
**VISHWATRONICS**  
**2014-15**

The number of transistors that can be placed on an IC doubles each year.



Department of Electronics Engineering  
Vishwakarma Institute of Technology  
Pune

## About the Department

**The Department of Electronics Engineering is one of the major Departments of Vishwakarma Institute of Technology, Pune. The department is proactive in experiential learning and applied research in the areas of signal processing, micro-electronics, speech processing, machine intelligence, communication engineering and real-time embedded systems. The Department of Electronics Engineering established in the year 1985 offers Under Graduate course- B Tech. (Electronics Engineering). The department caters to the ever increasing needs of technical brilliance in all allied areas of electronics engineering. The Department has well-equipped 10 laboratories with high end equipments such as Digital Storage Oscilloscopes, High Frequency Counters, Antenna Trainer Kits, Combiscopes, Pneumatic It Trainer Kits, Blackfin Digital signal Processors, FPGA Vertex-5 kits, Spartan-3E kits, ARM 7, ARM 9, Cortex-M3 kits etc. and licensed softwares such as Mentor Graphics, MATLAB, etc.**

**Our faculty members challenge their students, share insights gained through professional experience and communicate the knowledge they've spent a lifetime acquiring. They don't rely on teaching assistants and they're supportive in the classroom.**

**The students are focused with the use of conceptual understanding of core domain areas as well as enhanced skills disseminating their analytical abilities. Students of the department are actively involved in various technical activities through IEEE students chapter Pune. Our aim is to provide students the lifelong learning and leadership skills that enable them to in their professions and advance to positions of responsibility by effective Industry-Institute Interaction.**

## From the H.O.D.'s Desk



**PROF. A. M. CHOPDE**  
Head, Dept. of Electronics  
Engineering

**Greeting from Department of Electronics Engineering!  
Welcome to the next volume of Vishwatronics!  
The Department of Electronics Engineering is constantly motivated to attain quality in teaching, research and professional activities. In recent months our faculty, staff and students worked scrupulously for the National Conference on Modeling, Optimization and Control (NCMOC-2015) at Institute level. With the grand success of the same, our team is working for next event: International Conference on Information Processing (ICIP 2015). The conference is approved by IEEE and the proceedings will be included in IEEE Xplore. The conference may receive funding from Savitribai Phule Pune University.  
This volume of Newsletter gives brief summary our major achievements in several activities. I hope this newsletter provides a complete coverage.  
Thank you.**

## Departmental course conduction by industry Faculty 2014 -2015

Sr. No.	Subject Taught	Name of Industry Expert	Experience in years	Organization of work	Domain
1	EC24313 Introduction to LINUX	Mr. Gaurang Gorasiya	4.5 Yrs	Global Talent Track Pvt. Ltd.	LINUX Operating System
2	EC33314 PCB design	Mr. Subhash Akiwate	18 Yrs	Akiwate Industries, Pune	PCB Design
3	EC33315 Networking - Industrial Automation	Mr. Rajendra Ghadage	17 Yrs	Rockwell Automation	Automation
4	EC33316 Industrial Wireless Communication	Mr. Deepak Bodhani	20 Yrs	Digitech Engineers	Communication

# Student Achievement Award

## July 2014 -June 2015

Name of Student	Event	Venue	Award	Year
Pratik Gandhi	Vishwakarandak 2014 – Volleyball	VIT , Pune	First position in Volleyball.	9 October 2014
Sandhyarani Deshmukh	PCB Designing Workshop – IEEE Student branch.	VIT , Pune	Completed	12 – 14 January 2015.
Anuja N Untwale	IJSRES(International Journal of Scientific Research and Engineering Studies)	Online journal	Presented Paper	02-Feb-15
Navnath V Khandre	IJSRES(International Journal of Scientific Research and Engineering Studies)	Online journal	Presented Paper	02-Feb-15
Pravin Shende	International Conference on Pervasive computing – ICPC 2015	Sinhgad , Pune	Title – “ Literature review of Brain computer interface using ECG signal “	8-10 January 2015.
Ramish Kawadiwale	Avishkar – 2014, Zonal Level research Project competition.	Savitribai Phule university , Pune	Participation	22 Sept 2014
Swapnali Sangale	MECHMERIIZE 15	Trinity COE and Research, Pune	Participation Volleyball	13-14 Jan 2015
Sneha Lohiya	International conference on Pervasive computing – ICPC 2015	Sinhgad , Pune	Title – “ A Survey on computer aided language learning using Assessment system “	8-10 January 2015.
Pooja Kamble	International conference on Pervasive computing – ICPC 2015	Sinhgad , Pune	Title – “Structural health monitoring of River Bridges	8-10 January 2015.
Anuja Untwale	IJSRES , Volume-2, Issue 2	Online journal	Title – “ Comparative study of Adaptive filtering techniques for noise cancellation of speech signal	Feb 2015
Sandhyarani Deshmukh	IEEE Student Branch workshop on Matlab	VIT , Pune	Completed	10-12 November 2014.

## Faculty Awarded 2014

Sr No	Name of Faculty	Award received	Awarding Body	Date Awarded	Place	Details of Awards
1	S.N.Shilaskar	Administration	VIT, Pune	Sep-14	Pune	
2	R. V. Tornekar	VIT SHRI	University of Pune	Dec-13	Pune	Well appraised Teacher

# Conferences/ Workshops/ Seminars Attended (2014-15)

Faculty Name	Name of the conference/ Workshop/Seminar	National/ International	Dates	Place	authors	No. Of Days
V. D. Gaikwad	ICPC 2015	Intl.	8-10 Jan 2015	SCOE, Pune	Vijay Gaikwad, Shashikant Lokhande	03
S. N. Shilaskar	IEEE Indicon 2014	International	11-13 Dec 2014	Pune	Shilaskar, Swati, and Achok Ghate	03
S. N. Shilaskar	ANEC-2015	National	6-8 Jan 2015	Pune	Swati Shinde Swati Shilaskar	03
S. N. Shilaskar	ICPC-2015	International	8-10 Jan 2015	Pune	Shraddha D. Deshmukh and Swati N. Shilaskar	03
P. A. Kulkarni	NCMOC 2015	National	4-6 Mar 2015	VIT, Pune	Sanyogita M. Chhatge, P. A. Kulkarni,	03
A. B. Barbadekar	NCMOC2015	national	4-6 march 2015	pune		03
S.A.kulkarni	NCMOC2015	national	4-6 march 2015	pune		03
Sneha Vivian	NCMOC 2015	National	4-6 March 2015	Pune	Sneha Vivian, Rashmi, R. M. Patrikar	03
V. P. Parkhi	Design of Experiment		12-13 Sept 14	Pune	-	02
P. A. Kulkarni	Design of Experiment		12-13 Sept 14	Pune	-	02
M. M. Shidore	Design of Experiment		12-13 Sept 14	Pune	-	02
A. K. Talele	2 week workshop on control system		2-12 Dec 14	VIT Pune	-	11
S.N.Raut	"Emerging Technologies in Advanced Digital Wireless Mobile Communication & Networking"	National	4 <sup>th</sup> Sept. 14	Trinity College of Engineering & Research, Pune	-	01
S.N.Raut	Matlab and Simulink	National	8 <sup>th</sup> , 9 <sup>th</sup> , 22 <sup>nd</sup> , 23 <sup>rd</sup> Nov. 14	College of Engineering, Shivajinagar Pune	-	04
K. P. More	Programmable Logic controller		25-26 July 14	VIT Pune	-	02
A.K.Talele	Wavelets and its applications in signal and image processing		4-8 Feb 2015	Sinhgad academy of engg. pune		05
P. A. Kulkarni	Winter School on Speech and Audio Processing	International	4-7 Jan 2015	DAICT, Gandhinagar, Gujrat	-	04
M.B. Tirmare	Wavelet Transform and its applications in signal and image processing		4-8 Feb. 2015	Sinhgad Academy of Eng., Kondhwa, Pune		05
S.P.Ballal	Design of Experiment		12-13 Sept 14	Pune		02
R. A. Bal	Programmable Logic Controller		25-26 July 14	VIT Pune	-	02
V.D.Gaikwad	Design of Algorithms		20-30 may 2015	VIT Pune		Two weeks
V.P.Parkhi	Design of Algorithms		20-30 may 2015	VIT Pune		Two weeks
D.G.Kanade	Design of Algorithms		20-30 may 2015	VIT Pune		Two weeks

## List of industry sponsored projects AY-2014-15

<b>Sr. No.</b>	<b>Sponsoring Industry</b>	<b>Area</b>	<b>Title</b>
1	Technolexis, Hyderabad	VLSI	Development of verification IP of AXI Protocol using System Verilog and OVM
2	Billion Ants Tech. Pune	Wireless Communication	Multipoint Wireless Data Acquisition System for Vehicles
3	Honeywell	Biomedical, Image Processing	Accessible home vital signs monitoring system.
4	Bharat Electronics Ltd.	Embedded System, Image Processing	Automatic PCB verification software.
5	Bharat Forge	Mechatronics	Energy conservation in machining
6	Forbes Marshall, Pune.	Embedded System	Electronic condensate recovery meter.
7	DRDO, Ministry of Defense Govt. of India	Embedded System	Applications of Embedded systems and Image processing in smart city



## Placement record of students

	A.Y. 2012-13	A.Y. 2013-14	A.Y. 2014-15
Placement offers in core electronics companies	17%	13%	7%
Total placement offers	57%	72%	74%

## List of companies offering internship to students during summer 2015

- 1 Novasalus Technologies, Pune
- 2 Johari Digital, Jodhapur
- 3 Crompton Greeves, Nashik
- 4 Robocraft, Mysore
- 5 Electronic Switches, Nashik
- 6 Tata Teleservices, Pune
- 7 Imagination Technology, Pune
- 8 Bajaj Auto, Pune
- 9 ICOMM Tele Limited, Hyderabad
- 10 S. N. Systems, Pune
- 11 Digitronics, Pune
- 12 Visteon Technical and Services Centre Pvt. Ltd. , Pune
- 13 L&T Technology Services, Mumbai

**Activities in 2014-15 by IEEE STUDENT BRANCH  
VIT Pune**

- 1 Latex Workshop**
- 2 Workshop on Circuit Simulation**
- 3 Matlab Workshop**
- 4 Workshop on PCB Designing**
- 5 Social Activity-**
- 6 Visit to Pitashree Orphange**
- 7 Workshop on Web Designing**
- 8 Workshop on Graphics Designing**
- 9 Visit to BSNL – GMSC, Chinchwad**
- 10 Latex Workshop**
- 11 Guest Lecture on-  
“The story of first generation Entrepreneurship”  
Visit to Vishay Components India Pvt. Ltd., Loni Kalbhori**

# VISHWATRONICS

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2014-15

## **Staff Editors**

**Prof.M.V.Wyaware**

**Prof.V.P.Parkhi**

**Prof.R.V.Vatti**

## **Student Editors**

**Pratik Rokade**

**Priyanka Paleshkar**



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Pune