College of Engineering, Pune

Department of E & TC

PROJECT SYMPOSIUM JUNE 2016

The department offers FOUR PG speculations viz. VLSI & Embedded Systems, Digital Systems, Wired & Wireless Communication, and Signal Processing. Eighteen students from each specialization carry out a yearlong dissertation work that pertains to latest trends in all these verticals.

The "Project Symposium" provides an opportunity for these PG students of the department to present their projects for review by faculty, industry representatives, other students, especially First Year, from the department and across the Institute, and guests. This is a significant learning experience stressing teamwork, organization, and communication - important elements in an engineering career.

Attraction: Key note Speeches by Industry Experts as per the following:
- "Pushing the Envelope" - by Vivek Chordia, CEO, In2Things Automation Pvt. Ltd. Pune.
- "Extending Dissertation work to Product/Patent" - by Rajeevlochan Phadke, Executive Director, LinguaNext, Pune.

Beneficiaries: First Year Post Graduate students of the department and across the Institute and from other sister Institutes running PG program in these specialization.

Exhibitors: Second Year Post Graduate students of the department (72)

Benefits:
- PG students – exhibitors - could showcase the efforts and contributions which would enhance their confidence and improve overall personality.
- PG students – beneficiaries – get exposure to different kinds of projects leading to concretization of their ideas of proposed dissertation work.

Day, Date and Time: Wednesday, 29th June 2016, 10:00 am to 5:00 pm

Venue: Mini-auditorium for the speeches and Respective Labs in the department for poster presentation.

Event Sponsored by "Center of Excellence in Signal and Image Processing"

Organizing Committee:

- Prof. Mrs. P. P. Rege – Head
- Dr. P. P. Bartakke – Coordinator
- Dr. Mrs. R. D. Joshi – Co-coordinator
- Dr. Mrs. V. S. Vyas
- Dr. Ms. S. P. Metkar/ Mr. S. G. Mali

S. Y. M. Tech. (Electronics – VLSI and ES)

Sr. No.	MIS No.	Name of Student	Title	Guide
1	121435001	Rohit Suresh Budhdihal	Design of 10 bit segmented DAC on 90nm technology	Mrs.V V Ingale
2	121435002	Pravin chidambar Chingudi	Standard Cell Characterization using in context Extraction	Mrs. V. S. Agarwal
3	121435003	Saurabh Radheshyam Chiraniya	Signature Imprintment of IP Core	Prof. A B Patki
4	121435004	Milind jagnnath More	Digitally Controlled Oscillator with variable capacitive loading	Prof. P. R. Apte
5	121435005	Apurva Rajendra Patkar	Object Recognition using array of Ultrasonic sensor.	Mr. P P Tasgaonkar
6	121435006	Amol Raosaheb Phad	Implementation of 8 bit folding and Interpolating Analog to Digital Converter in 90nm technology	Dr. Mrs. P P Shingare
7	121435007	Pradeep abasaheb Patil	CMOS circuit design of fifth derivative of Gaussian pulse generator for UWB communication	Prof. A B Patki
8	121435008	Pratik Deepakrao Patangrao	VLSI Implementation of Energy Detection and Channel selection Algorithm for Cognitive Radio	Mr. P. P. Tasgaonkar
9	121435009	Vediya Sitaram Raghuvanshi	License Plate Detection and Recognition System	Dr. P P Bartakke
10	121435010	Rahul B.Pendor	An IoT framework for intelligent vehicle monitoring	Mr. P P Tasgaonkar
11	121435011	Amol Udanshiv	Implementation of RISC processor in FPGA	Prof. P. R. Apte
12	121435012	Rashmi Suhas Vaidya	Implementation of clock gated Vedic ALU	Dr. Mrs. P P Shingare
13	121435013	Vaibhav Ashok Ingale	Sensor device for measuring Soil Macro-Nutrient proportion	Dr. Mrs. P P Shingare

14	121435014	Aamirsohel Momin	Fast Fourier Transform Implementation on FPGA for Astrophysics Application	Dr. P P Bartakke
15	121435015	Nilesh Sharad Khandekar	Timing clouser and leakage power recovery using MCMM technique.	Mrs. V. S. Agarwal
16	121435016	Rahul Rajendra Varma	IP for Solar MPPT charge controller	Dr. P P Bartakke
17	121435017	Ambure Shankar suryakant	Interface circuit design for capacitive sensor in 0.18um cmos technology.	Mrs. V. S. Agarwal
18	121435018	Akshay Ashok Gattawar	Multipath Cancellation and correction in time of flight sensor via coded pulse technique.	Dr. P P Bartakke
19	121335007	Mr. Ravindra Holkar	Identification of disease in cotton plant leaf using SVM.	Prof. Mrs. M.A. Joshi

S. Y. M. Tech. (Electronics – Digital Systems)

Sr. No.	MIS No.	Name of Student	Title	Guide
1	121433001	Aparajita Burman	PCB Solder Pad Inspection Mechanism using Gerber File	Dr. M. S. Sutaone
2	121433002	Yuvraj Balinge	Real Time Video Stabilization On Blackfin Processor	Dr. Mrs. V. S. Vyas
3	121433003	Rudraksh Gatkal	Low power CMOS design in Nanometer Technology	Mr. S .G. Mali
4	121433004	Apurva Joshi	Text to Speech Real Time Application using Concatenation Synthesis for Marathi Language	Mr.S .G. Mali
5	121433005	Suraj Kole	FPGA based data acquisition system with USB communication	Mrs. V. V. Ingale
6	121433006	Chetan Lonshiker	Sound Source Localization And Audio Beam formation	Dr. M. S. Sutaone
7	121433007	Mayur Katwe	FPGA Based Remote I/O With MODBUS Capability	Mrs. V. S. Agarwal
8	121433008	Dipti Mohadikar	Detection Of Abnormalities In CT Scan Liver Images	Dr. A.M. Sapkal
9	121433009	Pallavi Khandelwal	Implementation Of Verification IP To Verify AXI Based System Using Assertions	Dr. Ms. S.P. Metkar
10	121433010	Abhijit Patil	Automated Traffic Offence Monitoring System	Dr. A.M. Sapkal
11	121433012	Juber Sheikh	Stereo Vision For Depth and Object Dimension Measurement	Dr. Mrs. M.A Joshi

12	121433013	Prajakta Somkuwar	Enhancement of historical document Images	Dr. Mrs. P.P Rege
13	121433014	Ashish Tajne	Real Time Vehicle Detection, Counting and Type Segregation for Intelligent Transportation system	Mr. V. B. Narayane
14	121433015	Swati Deshkar	Intelligent And Adaptive Transportation Management System	Mr. V. B. Narayane
15	121433016	Raviraj Shelke	Image Steganography In Wavelet Space	Dr. Ms. S.P. Metkar
16	121433017	Ganesh Khomane	Eco-Driving Engine Utilization Obd-II Diagnostics	Mrs. Y. M. Vaidya
17	121433018	Anuj Sable	Determination of the Size of the Object using Kinnect Depth Data	Mrs. Y. M. Vaidya

S. Y. M. Tech. (E & TC – Wired and Wireless Communication)

Sr. No.	MIS No.	Name of Student	Title	Guide
1	121434001	Akash Pandey	Exciter design for wind profiling radar	Mrs. V. A. Kulkarni
2	121434002	Chaitanya Madan Anpate	Lab Virtualization and Resource Management	Dr. S. P. Mohani
3	121434003	Ajay Gopichand Dange	Design and Implementation of Multi-Protocol Internet of Things Gateway on Low Cost Embedded Platform and its Integration with IoT Server.	Dr. Mrs. R. D. Joshi
4	121434004	Mayuresh Dhanak	Auto Configuration of Torus Network for Adaptive Routing Algorithms	Dr. R.A. Patil
5	121434005	Siddhesh Sakharam Dike	Design of vFarm and vCenter reporting	Dr. Mrs. R. D. Joshi
6	121434007	Sushil B Ronghe	Modeling and Performance Analysis of RF Energy Harvesting Cognitive Radio Networks	Mrs. V. A. Kulkarni
7	121434008	Sagar Ashok Ghotane	Detection Algorithms in Large Scale Multiuser SM-MIMO Systems	Dr. S. P. Mohani
8	121434009	Neha Vikas Totawar	Compact frequency reconfigurable antenna	Mrs. D. V. Niture
9	121434010	Chetan Zanwar	Design of Adaptive Routing Algorithm for Torus Topology	Dr. R. A. Patil
10	121434011	Padwal Ashish Govind	Frequency and polarization reconfigurable square ring antenna for wireless application	Mrs. D. V. Niture

11	121434012	Kishor Bhawar	Flow based Congestion Management in Torus based HPC Interconnects	Dr. S.P. Mohani
12	121434013	Tandel Kaushalkumar Hasmukhrai	Active Loop Antenna for LORE	Dr. S. P. Mahajan
13	121434014	Abhinav Kumar Srivastava	Application of Wireless Sensors Networks in Indoor Monitoring and Home Automation	Dr. Mrs. R. D. Joshi
14	121434015	Madhura Deshpande	Secure Edge for WebRTC	Dr. S. P. Mohani
15	121434016	Snehankit Rajendra Dongare	Active Monopole Antenna Design for LORE	Dr. S. P. Mahajan
16	121434017	Parijat Shukla	Sound source separation from mixed audio	Dr. S. P. Mahajan
17	121434018	Urmi Uttam Pal	Security and Vulnerability Testing Tool for Session Border Controller	Dr. R. A. Patil

S. Y. M. Tech. (E & TC – Signal Processing)

Sr. No.	MIS No.	Name of Student	Title	Guide
1	121497001	Juili Pradip Bhirud	Stroke-width Transform based Text-Image Separation	Dr. P. P. Rege
2	121497002	Madhavi Ashok Chavan	Analysis framework for machine learning experiments based on classifier combination for Petrographic Images	Dr. Mrs. V. S. Vyas
3	121497003	Nishigandha Vishwanath Gaikwad	Digital Image Security using Mosaics	Dr. Ms. S.P. Metkar
4	121497004	Kanchan Ramesh Hivnathe	Network Anomaly Detection	Dr. R. A. Patil
5	121497005	Kanase Prajakta Ashok	Fake Currency detection using Digital Image Processing	Dr. M. S. Sutaone
6	121407006	Lata Gupta	R- Peak Detection using Statistically Matched Filter Bank and HRV analysis for Arrhythmia Classification	Mrs. V. V. Ingale
7	121497007	Neha Suresh Jain	Secure remote firmware update and rollback for constrained embedded systems	Mr. S. G. Mali
8	121497008	Nerkar anuja ravindra	Singing Voice separation	Dr. Mrs. M. A. Joshi
9	121497009	Sagar Balbhim Shinde	Fast algorithm development in x.265	Dr. M. S. Sutaone

10	121497010	Sonam Arvind Wasule	Improvement to 2D barcode	Dr. Ms. S. P. Metkar
11	121497011	Pravin Pundlik Suryawanshi	Acoustic Environment Identification - Application to Audio Forensics	Mrs. R. K. Patole
12	121497012	Gaurav Pratiraj Salunkhe	Reduction of harmonics in induction motor drive using harmonic injection method	Dr. A. M. Sapkal
13	121497013	Omkar Hemant Damodare	Medical Image Denoising	Dr. A. M. Sapkal
14	121497014	Tanuja Chunnilal Borkar	Dynamic texture Detection By using Contourlet Transform	Dr. Mrs. V. S. Vyas
15	121497015	Kalpana Annarao Mule	Content Based Search Mode Improvement in HEVC	Mrs. V. N. More
16	121497016	Gayatri Hiraman Deore	Video Analytics on DSP	Mrs. V. N. More
17	121497017	Priyanka Sanjay Vispute	Development of algorithm for speech Enhancement	Dr. Mrs. M. A. Joshi
18	121497018	Vivek Diliprao Indrale	Study and implementation of genetic motion estimation in X265 codec	Mrs. V. N. More

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