



Bansilal Ramnath Agarwal Charitable Trust's

Vishwakarma Institute of Technology, Pune.

(An Autonomous Institute affiliated to Pune University)



Academic Report 2013-14

Department of Instrumentation



Summary of Department Activities

1. Department Achievements

Sr. No	Month	Achievement	Amount
1	Nov 2013	Two students received ISA scholarships	\$1200 and \$500 respectively
2	Dec 2013	MOU signed between Instrumentation Engineering Department and Mitsubishi Electric Corporation Ltd.	Approx 8.23 lac

2. Department Activities

Sr. No	Date	Activity
1	27 th Sept, 2013	Engineers Day Celebration
2	12 th April, 2014	Alumni Meet – 2014
3	21 st May, 2014	Best Outgoing student award function

3. Courses offered by Industry

Sr. No	Course Name	Course Type	Industry conducting the course
1	Flow measurement	Proficiency Development course	Forbes Marshall, Pune
2	Project Engineering Management course	3 Credit Theory Course	Emerson Exports Engg. Centre, Pune.
3	Flow Measurement	3 Credit Elective course	Forbes Marshall, Pune
4	Training of Final year B. Tech students	4 days short term training program	Pune Techtrol Pvt. Ltd., Pune



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5	Training of First Year M. Tech students	One day training program	Electronet Equipments Pvt. Ltd, Pune
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4. Guest lectures: Total- 13

Sr. No	Date/ Month	Resource Person Name and Designation	Topic of Lecture	Faculty Organizer	Year
1.	Sept 2013 to Nov 2013	Prof. (Dr.) Aditya Abhyankar, Dean, Faculty of Technology, University of Pune	PD course Joint Time Frequency Analysis	Prof. Pramod Kanjalkar and Mrs. Shilpa Sondkar	Third Year
2.	Sept 2013 to Nov 2013	Mr. Rajendra Patel	Graphical User Interface for Embedded Systems- PD Course	Prof. Pramod Kanjalkar	Third Year
3.	23 rd Sept 2013	Mr. C. Dhamankar, Managing Director, Forbes Marshall	Pursuit of Excellence “From Campus to Corporate”	Mrs. Archana Chaudhari	Second Year
4.	24 th Sept, 2013	Mr. Anand Bederkar, Managing Director, SEBM Pvt. Ltd	Popular Level Measurement Technologies	Mrs. Archana Chaudhari	Third Year
5.	14 th Oct 2013	Prof. (Dr.) Aditya Abhyankar, Dean, Faculty of Technology, University of Pune	Transforms with emphasis on Wavelet	Prof. Pramod Kanjalkar and Mrs. Shilpa Sondkar	Third Year
6.	30 th January 2014	Dr. Vishwas Udpikar, Director Wavelet Group	Wavelet and Its application to image processing	Mrs. Manisha Mhetre	UG and PG Student
7.	6 th Feb	Mr. K. Rehani,	Trends in Industrial	Mrs. Archana	



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	2014	President ISA, Pune	Automation	Chaudhari	B.Tech
8.	13 th and 14 th Feb	Mr. Chiradip Lahiri, Honeywell India Ltd	“Heating Ventilation and Air conditioning ”	Mrs. Archana Chaudhari	B.Tech
9.	17 th Feb	Mr. Rajesh Mukherji, Honeywell India Ltd	“Smoke and Fire detectors in Building Automation”	Mrs. Archana Chaudhari	B.Tech
10.	4 th March 2014	Mr. Vishwas Kale, MD Vijesh Instruments	Industrial temperature Measurements	Mrs. Archana Chaudhari	Second Year
11.	5 th March 2014	Mr. Prasad Kulkarni, Honeywell India Ltd	“Building Automation”	Mrs. Archana Chaudhari	B.Tech
12.	8 th March 2014	Mr. Vinod Joshi, Forbes Marshall,Pune	Communication Protocol	Mr. Kapil Mundada	B.Tech
13.	11 th March 2014	Dr. Vivek Agarwal, IIT Powai	Power Electronics	Mrs. Manisha Mhetre	B.Tech

14. Industrial visits organized : Total visits: 07

Sr No	Industry Visited	Class visited	Date
1	Department of Chemistry, University of Pune	UG students	24th October, 2013.
2	Esquare Multiplex, Shivajinagar, Pune	B. Tech	10 th Feb 2014
3	Sohan Health Care, Kurkumbh	SY	11 th Feb 2014
4	Forbes Marshall, Pune	TY and B. Tech	April 2014
5	Central Water and Power Research	TY	March 2014



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	Station, Pune		
6	Electronic Test and Development Centre, Pune	TY	April 2014
7	PCMC water Treatment Plant	B. Tech	April 2014

15. Student's Achievements:

Sr. No	Name of the Student	Class	Event	Category	Organizer	National	Rank/Achivement
1	Rucha Kulkarni	B. Tech	GATE 2014	Curricular	IIT	National	AIR 4
** More than eight students qualified the GATE 2014 examination							
2	Vina Jolmoru	B.Tech	Competitive Exam	Co-Curricular	Air Force	National	Selected as Pilot
3	Mayur Shelke, Satyvrat Wagle, Gaurav Vikhe, Prateek Nagras	T.Y.	Best innovative ideas	Co-Curricular	Electronics For You magazine	National	Top 25
4	Mayur Shelke, Satyvrat Wagle, Gaurav Vikhe, Prateek Nagras	T.Y.	Project Competition	Co-Curricular	Cummins College of Engineering	National	1 st Runners up
5	Mayur Shelke, Satyvrat Wagle, Gaurav Vikhe, Prateek Nagras	T.Y.	Meleange-Projex	Co-Curricular	V.I.T. Pune	National	Winner
6	Ms. Bhagyashri Shirke	M.Tech	Running	Extra	Pune	Inter	Winner



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			Competition	Curricular	University	universit y	
7	Sourabh Kulkarni	B.Tech	Cricket	Extra Curricular	Kaware Pratishthan	Inter college	Winner
8	Anuja Joshi Abhishek Loknar	B.Tech T.Y.	Firodia Karandak	Extra Curricular	Sahamati Pune	Inter college	Winner (3 Individual prizes)

16. Placements and Internships

Placement	Internships
95%	65+

17. Staff Achievements

Sr .No	Achievements	Number
1	Ph. D Completed	1
2	Publication in International Journal	03
3	Publication in National Journal	01
4	Publication in Conference	04
5	Conference /Workshops/ Seminars Attended	5
6	Workshop/ Seminar Organized /Conducted	5
7	Ongoing Funded Research Projects	1
8	Patents filed	3

Detailed report

- **Department achievement**

- 1) **Students received ISA scholarship:** Two students of Instrumentation Engineering Department received the scholarship from International Society of Automation (ISA). Our student Shreyash Dighe was the first in India to receive a sum of \$1250 and Yogesh Darade was 6th in place to receive sum of \$500.



ISA scholarship receivers Yogesh Darade (left) and Shreyas Dighe (right) felicitated by Hon. Director of the Institute Prof. Dr. Rajesh M. Jalnekar

- 2) **MOU signed between Instrumentation Engg. Department and Mitsubishi Electric Corp. Ltd.**

In a very important achievement in this semester, Department of Instrumentation Engineering signed a MOU with Mitsubishi Electric Corp. Ltd. in April 2014. According to this MOU the department received latest training equipments worth Rs. 8.23 lac from Mitsubishi Electric Corp. Ltd.



- **Department events:**

- 1) **Engineer's Day celebration**

Department of Instrumentation engineering and student activity, department celebrated “Engineers Day” on 27th Sept, 2013 in Sharad Arena to pay regards to Bharat Ratna Sir Mokshagundam Visveshvaraya. Mr. K. V. Rehani President of International Society of Automation was the Chief Guest of the function. Prof. (Dr.) J V Kulkarni (Dean Administration and Registrar), Prof. (Dr.) A. M. Moolchandani staff in charge Student activities and Prof. Pramod Kanjalkar, Head of Department were also present on the dais. On this occasion two competitions were held for all the students of the institute. In Creative Writing Competition (Essay Competition) 82 students of the Institute participated and in Poster Making Competition 52 students participated. The response of the students in the competitions was overwhelming.

The event was coordinated by Prof. Manisha Mhetre and Prof. Archana Chaudhari with the support of the other teaching and non teaching members of the department.

Few glimpses of the Event:



Dignitaries' on the stage Prof. Dr. A. Moolchandani, Prof. Dr. J. V. Kulkarni, Chief Guest Mr. K .V. Rehani, Prof. P. M. Kanjalkar.

Chief Guest Mr. K .V. Rehani addressing the audience

- Alumni meet at Department of Instrumentation Engineering

Date:15/11/2013

Venue: 4307, Department of Instrumentation Engg.

No of alumni attended: 8 Alumni and department Faculty

Points discussed:

Meeting started with warm welcome by Head of the department Pramod Kanjalkar.

- Autonomy importance has been explained by the head and how it is useful for getting latest knowledge to the students.
- Alumni (Atmanathan, Akash shah , Onkar kulkarni, swanand khade, Ajay Nagarkar, Chaitrali Dhole, Manasi Patwardhan, Yogesh Mahaparale) appreciated the syllabus and structure change and inclusion of new subjects and points for the benefit of the students.
- Evaluation procedure is also explained to all by Jitendra Gakiwad sir.
- Department development and achievements are explained by the Sondkar Madam.
- Alumni (Atmanathan, Akash shah , Onkar kulkarni, swanand khade, Ajay Nagarkar, Chaitrali Dhole, Manasi Patwardhan, Yogesh Mahaparale) show interest for involvement in the project evaluation, career guidance, personality development etc. Also emphasis is given by Alumni on providing hands on some subjects like PLC and Embedded.



- Meeting end up with Vote of thanks by Manisha Mhetre.

Alumina Meet - 2014

“Back to Alma Mater”

The department of Instrumentation Engineering, V.I.T. Pune organized alumni meet on 12th April, 2014, which facilitated a warm interaction between the alumni, current students and faculty of the department. Alumni meet was inaugurated by the chief guest Dr. S.S.Sundararajan Co-founder and Director of Ayushman health care Pvt. Ltd. Mr. Narendra Bari Alumni of the 1st batch from Honeywell Pune and Prof. P. M. Kanjalkar Head of Department were present on the dais. The occasion was graced by more than 50 alumni and their family members ranging across various batches. Speaking on the occasion, honorable chief guest highlighted the power of knowledge and social awareness for the socio-economic growth of individuals and peers inspired the gathering in true sense. Mr. Narendra Bari brushed up faded memories of the alumni associated with the institute. He was astonished to see the changes and milestones institute has achieved in past two decades and also expressed his wish to strengthen the alumni base. He talked about how practical learning approach of institute helped them to acquire technical skills and also to excel in professional domain. Prof. P.M.Kanjalkar, Head of the department underlined and praised the achievements of present students of the department in all walks of life. He also felt that it is matter of great pride for V.I.T. that its alumni are holding positions of responsibility in various renowned organizations. Many of them are successful entrepreneurs providing jobs to others as well. He further emphasized the need for strengthening the linkage between the Alumni and V.I.T. Pune.

All the alumni seemed very keen to share their experiences and memories. They also alumni expressed thanks to the department for organizing alumni meet. Some of the alumni talked about “O wow” factor of brand V.I.T. they experienced in their early days of professional life. Alumni has agreed to strengthen alumni association and showed their interest to enhance skill sets of current students of the department so that to get absorbed in corporate sector without

much hassles. Some of the corporate employee turned entrepreneurs glanced at importance of the ethics inculcated within through V.I.T. which helped them to be self employed.

Prof. Sanika Patankar hosted the event and Prof. Manisha Mhetre expressed the vote of thanks. Alumni also enjoyed the cultural events performed by the students of the department. The meet ended with the alumni being ushered to have dinner with the faculty and the students. The alumni were clearly moved by this emotional reunion and were quite nostalgic, eagerly awaiting the next Alumni meet.



Chief guest Dr. S.S.Sundararajan addressing the gathering and other dignitaries on the dais Mr. Narendra Bari, and Prof. P.M.Kanjalkar



Alumni expressing their views: Mrs. Chitrali Dhole



Alumni expressing their views: Mr. Pawan Gupta

3. Best Out going student award ceremony

Final Year student Mr. Akshay Ghadge receiving best out going student of the year award from Hon. Director Prof. Dr. R. M. Jalnekar



Director (Dr.) R. M. Jalnekar along with HOD Prof. P. M. Kanjalkar felicitating Akshay Ghadge as a Best outgoing Student

4. Courses and Training offered by Industry

1) Flow measurement PD course by Forbes Marshall, Pune.

A professional development course (PD) was offered for the third year students of the department by Forbes Marshall, Pune. 19 students enrolled and took benefit of this course. As the course was offered and taught by the Industry personals, it helped the students to understand the current industry trends and needs in the area of flow measurement. Various important contents as per the industry needs were covered in the course.

Following industry experts from Forbes Marshall, Pune conducted the course:

Mr. Ramani Iyer, Mr. K. S. Srinivasan, Mr. J. G. Bapat and Mr. Neville Fernandes

2) Project Engineering Management (PEM) course by Emerson, Pune.

A course was offered to the final year students of the department by Emerson Exports Engineering Centre, Pune. As the course was offered and taught by the Industry personnel, it helped the students to understand the current industry trends and needs in the area of Project management. Various important contents as per the industry needs were covered in the course. Following industry experts from Emerson (Pune) conducted the course

Mr. Shirish Chaphekar, Vice President, EEEEC Pune

Mr. Jayateerth Kulkarni, Director, EEEEC Pune

Mr. Subba Rao, Mr. Rajesh Prabhune and Mr. Yogesh Patil

3) Industrial Flow Measurement Techniques elective course by Forbes Marshall, Pune

An elective course was offered to the final year students of the department by Forbes Marshall, Pune. As the course was offered and taught by the Industry personnel, it helped the students to understand the current industry trends and needs in the area of Flow Measurement. Various important contents as per the industry needs were covered in the course.

4) Training at Pune Techtrol Pvt. Ltd:

Training was given to B.Tech students on Level measurement using different sensors, Switches, HVAC, Level measurement for Solids and Liquids, Process automation. Different certifications for industry and welding for float valve at Pune Techtrol Pvt. Ltd, Bhosari MIDC, Pune on 18th Jan 2014 and 28th Jan 2014.



Faculty with students at Pune Techtrol Ltd

3) PG students visited Electronet Equipments Pvt. Ltd. for one day training

PG students accompanied by Prof. Jitendra Gaikwad and Head, Prof. Pramod Kanjalkar visited Electronet Equipments Pvt. Ltd. on 1st March 2014. Demonstration on Flow Control Trainer, Pressure Control Trainer, Level Control Trainer, Temperature Control Trainer, Data Acquisition system for all four modules with Audio visual demonstration were presented to the students.



PG students on training in EEPL Company

5. Guest lectures organized

1) Mr. Chandrashekar Dhamankar, GM (Technical), Forbes Marshall, Pune.

On 23rd September 2013, Department of Instrumentation organized a guest lecture by Mr. C. S. Dhamankar on the topic “Pursuit of Excellence: From Campus to Corporate”



Mr. Chandrashekhar Dhamankar conducting guest lecture

2) Mr. Anand Bedarkar, Managing Director, SEBM Pvt. Ltd. Pune.

On 24th September 2013, Department of Instrumentation organized a guest lecture by Mr. Anand Bedarkar, Managing Director, SEBM Pvt. Ltd on the topic “Popular Level Measurement Technologies.”



Mr. Anand Bedarkar conducting guest lecture

3) Prof. (Dr.) Aditya Abhyankar, Dean, Faculty of Technology, University of Pune.

On 14th Oct 2013, Department of Instrumentation organized a guest lecture by Prof. Dr. Aditya Abhyankar, Dean, Faculty of Technology, UOP on the topic ‘Transforms with emphasis on

Wavelet.’ He also conducted PD course on Joint Time Frequency Analysis (JTFA) during Jan 2014 to May 2014.



Prof. (Dr.) Aditya Abhyankar, conducting lecture

4) Dr. Vishwas Udpikar, Director, Wavelet Group, Pune

On 30th Jan 2014 a lecture was conducted by Dr. Vishwas Udpikar for all the students and staff of the department



Mr. Udpikar from Wavelet Group, Pune

5) Mr. Karamvir Rehani, ISA President, Pune section

On 6th Feb 2014 guest lecture by Mr. Karamvir Rehani was arranged for B. Tech students of the department on “Trends in Industrial Automation”



Mr. Karamvir Rehani, ISA President, Pune section

6) Expert Lectures by Honeywell Automation India Ltd., Pune.

Experts from Honeywell conducted a series of 12 lectures from Feb 2014 to March 2014 in Department of Instrumentation on the subject Building Automation



**Mr. Prasad Kulkarni expert from Honeywell
Honeywell**



Mr. Rajest Mukherjee expert from Honeywell



Mr. Lahiri Expert from

7) Mr. Vishwas Kale, Managing Director, Vijayesh Instruments Pvt. Ltd., Pune.

On 4th March 2014 guest lecture by Mr. Vishwas Kale was arranged for SE students of the department on 'Industrial temperature Measurements'



Mr. Vishwas Kale, Managing Director Vijayesh Instruments

8) Mr. Vinod Joshi from Forbes Marshal, Pune

On 8th March 2014 a guest lecture was conducted by Mr. Vinod Joshi from Forbes Marshal, Pune for B.Tech students on the topic Communication Protocol

9) Prof. Dr. Vivek Agarwal, Dept. Of Electrical Engg., IIT,Powai

On 11th March 2014 a lecture for all students and staff members was conducted by Dr. Vivek Agarwal on the topic of Power Electronics and Energy Harvesting



Lecture by Mr. Vivek Agarwal

6. Industrial visits organized

- 1. Department of Chemistry, University of Pune.**

Our department had arranged a visit to Chemistry department, University of Pune, for demonstration of experiments for the SE Instrumentation - SD lab course, Analytical Instrumentation. The visit was arranged on 24th October, 2013.

2. Esquare Multiplex, Shivajinagar, Pune

The students of B.Tech visited Esquare Multiplex as a part of their elective course Building Automation and Security System on 10th Feb 2014.



Students of B.Tech along with the employees of Esquare

3. Sohan Health Care, Kurkumbh

The students of SE visited Sohan Health Care as a part of their curriculum on 11th Feb 2014 to learn about analytical instruments.

4. Forbes Marshall, Pune.

An industrial visit was arranged for the students of TE. Around 25 students with faculty member, Prof. V.R. Bhanuse visited the campus of Forbes Marshall, Pimpri, Pune to study various recent technologies which are used in the industry in flow measurement field.

5. Visit of Proficiency Development course students to CWPRS, Pune

The students of Second Year visited CWPRS as part of their proficiency development course Calibration and Standards offered in the department



Students visiting CWPRS

6. Electronic Test and Development Center, Pune

Electronic Test and Development center, Agriculture College Pune. Visit was arranged for Third year students in April 2014.

7. Visit to PCMC water Treatment Plant

The students of BTech course visited PCMS water treatment plant as part of their elective course Flow Measurement offered by Forbes Marshal

7. Students Achievements

1. Ms. Bhagyashri Shirke, first year M. Tech. student of the department won the 1st prize at a District level running competition held on October 13th at Sanas Ground, Pune.
2. Sourabh Kulkarni B.Tech student represented cricket team and won the Kaware Karandak for consecutive three years
3. Two Third Year students received ISA PMCD scholarship from USA. Shreyash Dighe received \$1200 and Yogesh Darade received \$500.

4. BTech student Rucha Kulkarni secured 4th rank in GATE 2014. Total 8 students qualified in GATE 2014 exam
5. BTech student Vina Jolmaru got placed for SSB services 2014 as pilot
6. Anuja Kulkarni final Year B.Tech student won the best choreography award in Purshottam Karandak



BTech student Rucha Kulkarni secured 4th rank in GATE 2014 felicitated by Hon Director Prof. Dr. R. M. Jalnekar



BTech student Vina Jolmaru felicitated by Hon Director Prof. Dr. R. M. Jalnekar



Bhagyashree Shirke, M.Tech felicitated by Hon Director Prof. Dr. R. M. Jalnekar



Press Note of Bhagyashree Shirke's achievement



Sourabh Kulkarni BTech student felicitated by Hon Director Prof. Dr. R. M. Jalnekar



Anuja Kulkarni student of the Department felicitated by Hon Director Prof. Dr. R. M. Jalnekar

8. Internships and Placements

Internships:

1. More than 80 students are successfully attending summer internship of about one month duration in various companies listed below.
2. Two PG students are doing internship at Wavelet Group, Pune

Sr. No	Company Name	No of Students	Year
1	Forbes Marshall	17	TE
2	Pune Techtrol Pvt. Ltd.	30	SE and TE
3	Electronet Engg. Pvt. Ltd.	6	TE
4	V A Automation	3	TE
5	SEBM	2	TE
6	Analogics Automation	3	TE



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7	Commtel Networks FZC, Sharjha	1	TE
8	MAPYN	1	TE
9	Wavelet Group	2	PG

Placements:

More than 95% students are placed. The major stake holders and recruiter's are as follows-

1. Honeywell
2. Emerson
3. Accenture
4. Infosys
5. Forbes Marshall
6. Cognizant
7. Toyo
8. Sudarshan Chemicals

Summary of all student's activities:

Year	No of students completed internship	No of students participated in extracurricular activities, sports and intercollegiate competitions	No of students appearing for competitive exam	No of students receiving scholarship
Second Year	30	50	--	--
Third Year	27	27	01	04
Final Year	42	21	15	02



Projects completed by students

1. No of mini projects done by Second year students - 21
2. No of mini projects done by Third Year students -22

One of the Third year mini project groups having title “Kitchen Automation: Automatic Gas control” is ranked among the top 25 innovative ideas by “*Electronics for You Magazine*”.

Major project highlights:

Total projects: 22

Industry sponsored projects: 8

External examiners appreciated the quality and mainly the variety of the projects. The areas are Control, Embedded, Robotics, Automation, Image processing, Biomedical Instrumentation Etc.

They mentioned that efforts need to be taken on projects on system development/ system design level.

9. Staff Achievements

Conferences/Workshops/Seminars Attended

Sr. No.	Faculty Name	Name of the conference	National/ International	Dates	Place	Subject Area
1	Mrs. Shilpa Sondkar	International Conference on Image and Signal Processing	International	25,26 November, 2013	Dr. Daulatrao Aher College of Engineering, Karad	Image and signal processing
2	Mrs. Manisha Mhetre	International Conference on Image and Signal Processing	International	25,26 November, 2013	Dr. Daulatrao Aher College of Engineering, Karad	Image and signal processing
3	Vijaykumar Bhanuse	International Conference on Measure for Quality Assurance Towards Excellence in Transport	International	5th December, 2013	Auto Cluster Chinchwad Pune	Test & Measurement



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		Sector and Exhibition on Measure & Test India				
4	Kapil Mundada	International Conference on Measure for Quality Assurance Towards Excellence in Transport Sector and Exhibition on Measure & Test India	International	5th December, 2013	Auto Cluster Chinchwad Pune	Test & Measurement

Conferences/Workshops/Seminars Organized

Sr. No.	Name of the Conference Workshop /Seminar	National/ International /State/University /College	Organizing faculty members	Dates	Place	Subject Area	No. of Participants
1	ARM Cortex	College	Pramod Kanjalkar, Kapil Mundada	21 st -25 th Oct. 2013	VIT, Pune	Hardware and Software	4
2	8051 microcontroller	College	Pravin Pol, Kapil Mundada, Deepali Dhande	13 th Oct. 2013	VIT, Pune	Hardware and Software	20
3	Matlab for engineers	College	Tejas Patil, Archana Chaudhari	25 th Feb. 2014	VIT, Pune	Software	40
4	AUTOMATE-PLC Workshop	College	Jitendra Gaikwad, Anil Kadu	26-27th Feb. 2014	VIT, Pune	Automation	90
5	Latex	College	Shilpa Sondkar	26-27th Feb. 2014	VIT, Pune	Software	40



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Faculty publications:

Sr. No	Name of the author	Title of the paper	Name of the journal/ Proceeding/Edited books	Volume & Pages	Year of publication
1	M.Azharudin ,Prof. J. A. Gaikwad	Multiple Boiler Demand Load Management using Fuzzy Algorithm	International Conference on Fuzzy Information and Engineering 2013, Coimbatore		2013
2	Mr. Yogesh Gilbile, Prof. J. A. Gaikwad	Development of oxygen based online measurement technique for unburnt losses in boiler	IEEE International conference on Energy efficient Technologies for sustainability 2013		2013
3	Ms. Meera D. Sungare, Prof. Jitendra Gaikwad	Study and Implementation of Distillation Control using Model Predictive Control of DeltaV	International conference on Electrical Engineering(ICEE-2013)		2013
4	S. B. Shinde and J. A. Gaikwad	Frequency Domain Approach to PID Controller Design for SOPDT Processes	National Journal, Instrument Society of India, IISc Bangalore.		2013
5	Vivek Shinde, P.M.Kanjalkar	Integrated use of Wireless HART and Zigbee Protocols to achieve efficient process parameter communication	IEEE Conference on Advances in Electrical and Electronic Engineering (ICARET 2013)		2013
6	D. K. Maghade , B. M. Patre	Decentralized PI/PID controllers based on gain and phase margin specifications for TITO processes	ISA Transactions, Elsevier,	Vol. 51, No. 4, pp. 550--558,	2013
7	D. K. Maghade B. M. Patre	Pole placement by PID controllers to achieve time domain specifications for TITO systems	Transactions of the Institute of Measurement and Control, SAGE Publications	Accepted	2013
8	D. K. Maghade, S. S. Sutar and B. M. Patre	Empirical Modelling and Decentralized PI	International Journal of Modeling, Identification and	Under review	2013



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		Controller for Two Tank Interacting Process	Control (IJMIAC), Interscience Publishers,		
9	H. R. Mokadam, D. K. Maghade and B. M. Patre	Tuning of Multivariable PI/PID controllers for TITO processes using dominant pole placement approach	International Journal of Automation and Control, Interscience Publishers,	Vol. 7, No. 1-2, pp. 21--41	2013
10	Shilpa Sondkar Hemant Abhyankar, Neveille Fernandes	Computationally lean algorithm of novel optimal FIR adaptive filter for vortex signal extraction	Flow Measurement and Instrumentation	35	March 2014
11	Savita P. Patil, Manisha Mhetre	“Intelligent Baby Monitoring System”	ITSI Transactions on Electrical and Electronics Engineering (ITSI-TEEE)	ISSN: 2320-8945 volume-2, Issue-1	2013-14
12	Manisha Mhetre and H. K. Abhyankar	Spirometry air flow measurement using PVDF Film	ITSI Transactions on Electrical and Electronics Engineering (ITSI-TEEE)	ISSN: 2320-8945 volume-2, Issue-2.	2013-14
13	Savita P. Patil, Manisha Mhetre	Intelligent Baby Monitoring System: A Review	Journal of Instrumentation Technology and Innovations,	ISSN: 2249-4731 Volume 4, Issue 1	2013-14

Patents:

Sr. No.	Title of the Patent	Status (Filed / Awarded)	Authors	Country for which the patent filed	Date of filing	Date of Issue / Award	Application No.	Patent No	Commercialized
1	Novel Spirometer with energy harvesting module	Filed	Mrs. M.R. Mhetre , Dr. H. K. Abhyankar	India	7 / 05/ 2013	-	-	1965/ MU M/ 2013	
2	Novel Estrus	Filed	Ms. M.N. Markandeya	India	29/06/	-	-	1904/ MU	



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	Detection Device and method of estrus detection in Animals		, Mrs. M. R. Mhetre, Dr. N.M. Markandeya		2013			M/2013	
3	Liquid dispensing system with automatic temperature Compensation on time based volumetric measurement	Filed	Ms. Amruta Nale, Prof. P.M.Kanjalkar, Prof. V.R.Bhanuse	India	26/06/2014	-	-	2085/MU M/2014	

Funded research projects

Title of the Project	Subject Area/ Area of specialization	Funding Body	Name of the Principal Investigator	Name of the Co-Investigator (s)	Amount Sanctioned
Development of auto focusing mechanism in context with surveillance applications	Image Processing	RPS-AICTE	Dr. J.V. Kulkarni	Prof. P.M. Kanjalkar	Rs. 5,30,000/-

Faculty Awards

1. Prof. Kapil Mundada received the VIT Shri Award for well appraised teacher on 1st September 2013 celebrated as Foundation Day of the Institute



Shri Bharat Agarwal, Managing Trustee BRACT, Shri Bajrangdas Lohia, Vice President, BRACT
Shri Rajkumar Agarwal, Chairman, BRACT, Dr. Vikram Gadre, Prof IIT Bombay,
Prof. (Dr). Rajesh Jalnekar, Director, VIT Pune Felicitating Kapil Mundada