

**All India Shri Shivaji Memorial Society's  
INSTITUTE OF INFORMATION TECHNOLOGY**

**HALF YEARLY REPORT 2014-2015  
Department of Instrumentation Engineering**

**1) Preamble:-**

**I]** This semester the department signed MoU with Chipkin Automation, Canada. The department had organized many workshops under MoU and ISOI activities like TWIN-CAT PLC along with Beck-off Automation and Industrial Automation system along with Prolific system, Pune and many more. Mrs. Sayali Joshi, Laboratory – Head, Aavanira Biotech Pvt. Ltd., Pune & CEO – Shrishti Eco-Research Institute (SERI), Pune, shared ideas and experience of her journey, as an entrepreneur. 58 students attended the workshops in different areas and participated in technical, cultural and sports activities outside college. Our cricket team wins the Summit 14 Inter engineering Cricket Tournament organized by, MIT Pune. In this Suraj Shinde, Nishant Kulkarni, and Prathamesh More was the man of the match and best bowler of the tournament. Many activities are organized under INSTRON held in 26/08/14 & 27/08/14. More than 10 Industrial visits and 10 expert lectures are organized by the department. New equipments like Universal Process trainer Kit along with Honeywell DCS system, LVDT, Strain Gauge, Temperature Oven and power supplies are purchased. Prajakta Thakur alumni of instrumentation department ranked 2<sup>nd</sup> position in UPSC exam. She was felicitated by Shri. Chatrapati Malojiraje on the eve of Shri. Shivaji Maharaj Jayanti. 13 workshops are attended by different staff members in different areas in this semester.

**II]** This semester 9 students were placed from the department. Department organizes many workshops under MoU and ISOI activities like Protocol conversion and System Integration by GYRO Automation Services, SCADA design by Prolific, Introduction to LabVIEW and Interfacing of Hardware with LabVIEW by Mr.Pramod Chavan, HOD, E & TC, KJEI's Trinity College of Engineering, Google Sketchup, Role of Biomedical Engginers and Equipments , poster competition and many more. Mrs. Sheela Dhariya – Proprietor, Anant Enterprises, Pune, shared ideas and experience of her journey, as an entrepreneur. 64 students participated in different technical activities in college and outside college, with 3 winners. 4 students from the department participated in PURUSHOTTAM KARANDAK. In sports our cricket team wins the UBHE'S Inter engineering Cricket Tournament organized by AISSMS IOIT, Pune. In this Suraj Shinde, Nishant Kulkarni, and Prathamesh More was the man of the match and best bowler of the tournament and this team won many other matches and Tournaments outside the college also. 34 students from the department got the sponsored projects from different companies like CWPRS, PCMC WTP, SAS Automation pune, Cummins India, Bharat Forge etc. Lot of Papers were Published in National & international Journals by students and staff. 07 Industrial visits and 06 expert lectures are organized by the department. New equipments like Power supply, Function generator, Level Trainer Loop, Flow Trainer Loop and Ammeters of different ranges were purchased by the department. Total 4 workshops were attended by the staff. And 13 students completed their Industrial Training from different companies.

## 2) Infrastructure Development:

- **Up gradation of Laboratories:**

<b>Sr. No.</b>	<b>Name of the Department</b>	<b>Amount (Rs.)</b>
01	Term I.Instrumentation Engineering (purchase)	7,99,763/-
02	Term II.Instrumentation Engineering (purchase)	465356/-

## 3. Academic Excellence Achieved:

### a) B.E. Examination results (2013-14 Term-II):

<b>Sr. No.</b>	<b>Name of the Department</b>	<b>Result</b>
01	Instrumentation Engineering (2013-14-II)	92.18%
	Instrumentation Engineering(2014-15-I)	69.09%

### b) Campus Placement :

- **List of companies visited campus:**

<b>Sr. No</b>	<b>Company Name</b>
1.	Tata Consultancy services Ltd.for 14-15 batch
2.	Cargil India Drive for 13-14 batch
3.	Samson Control for 13-14 batch
4.	Indotech Industrial Solutions for 13-14 batch
5.	Emerson
6.	Forbes Marshall
7.	Tata Consultancy services
8.	Mahavitaran
9.	Samson control,Pune
10.	Indotech Industrial Solution, Pune
11.	Indian Army UES24
12.	NIIT Job Fair
13.	Tata Consultancy services
14.	Indian ArmyUES25
15.	Cap Gemini
16.	Job Fair Employment Exchange
17.	Emerson Export

18.	Horizon Telecom
19.	QED Enabled

• **Students placed for academic year 2013-14:**

SR NO.	NAME	BRANCH	NAME OF THE COMPANY
1.	Chaitanya Adkar	Instrumentation	TCS
2.	Mukta Pendse		Emerson
3.	Chaitanya Adkar		Emerson
4.	Mukta Pendse		Emerson
5.	Rahul Agrawal		HORIZON Telecom
6.	Vicky Jadhav		HORIZON Telecom
7.	Siddharth Mungekar		QED Enabled
8.	Miten Dandavate		Samson Controls Pvt.Ltd
9.	Shekhar Kulkarni		Samson Controls Pvt.Ltd
10.	Suraj Shinde		Samson Controls Pvt.Ltd
11.	Shripad Kenekar		Thyssenkrup

c) **Activities Conducted:- ( Entrepreneurship activities, Soft Skills , visits etc)**

Sr no.	ACTIVITY	DATE
1.	Expert lecture on “Entrepreneurship” Mrs. Sayali Joshi, Laboratory – Head, Aavanira Biotech Pvt. Ltd., Pune & CEO – Shrishti Eco-Research Institute (SERI), Pune	17/09/14
2.	Entrepreneurship Lecture by Mrs. Sheela Dhariya , Proprietor, Anant Enterprises, Pune,	26/02/15
<b>Activity for T.E students</b>		
3.	Students practice session on “Introduce Yourself “	25/6/14
4.	Students practice session on “Project Management “	2/7/14
5.	Students practice session on “Poster Presentation “	9/7/14
6.	Students practice session on “Poster Presentation “	16/7/14
7.	Students practice session on “how to introduce yourself during interview”	23/7/14

8.	Students practice session on “Abstract Preparation for project”	30/7/14
9.	Students practice session on “Introduce Yourself“	7/8/13
10.	Seminar on “Time Management and Study”	14/8/13
11.	Group Discussion on “Why students attempt suicides?”	21/8/13
12.	Aptitude Test	28/8/13
13.	Debate on subject “75% attendance compulsion in Engineering colleges“	10/09/14
14.	Seed Aptitude Practice Test -I	7/1/15
15.	Seed Aptitude Practice Test -II	15/1/15
16.	Seed Aptitude Practice Test -III	22/1/15
<b>Activities for S.E Students</b>		
17.	Seed Aptitude Practice Test -IV	29/1/15
18.	Group discussion on Time Management	2/2/15
19.	Discussion about Presentation Skills	9/2/15
20.	How Internship is beneficial for students	23/2/15
21.	Presentation on Presentation Skills by Student	9/3/15
22.	Learning of Presentation Skills	03/07/14
23.	Project Building/ Project management	07/08/14
24.	Technical Writing	14/08/14
25.	Model Making	21/08/14
26.	Creating Social Awareness	28/08/14
27.	Compressive writing Elaborating a Topic	04/09/14
28.	Group Discussion/ Personal Interview	11/09/14
29.	Mind Mapping Tree	18/09/14
30.	Poster Presentation	25/09/14
31.	Self Introduction	08.01.2015
32.	Impromptu Speech	15.01.2015
33.	Advertisement presentation (Technical products)	22.01.2015
34.	News preparations & reading	29.01.2015

35.	Presentation skills	05.02.2015
36.	Listening skills – audio file reading	12.03.2015
37.	Skill development- presentation, marketing & hospitality	25.03.2015

**d) Industrial Training**

Sr. No	Name of Students	Name of organization	Department
1.	Sagar Patil	Persistent Engineering, Bhosari ,Pune	Instrumentation
2.	Rushikesh A Gadale	Indapur Dairy & Milk Products Ltd.	
3.	Shekhar Kulkarni	Inditron, Shivne, Pune	
4.	Vinay Mohite		
5.	Madhav Kadam	Clariant Chemicals (India) Ltd.	
6.	Rahul Agrawal	Cummins India Ltd., Kothrud Pune	
7.	Santosh Nalage		
8.	Shradha Arekar		
9.	Archana Waghela		
10.	Reshma Shaikh		
11.	Aditi Kurhade	Forbes Marshall, Pune	
12.	Isha Tawade		
13.	Harshwardhan		
14.	Khamakar		
15.	Shreyas Raut		
16.	Pooja Shinde		
17.	Tina Patil		
18.	Mukta Pendse		
19.	Saiprasad		
20.	Bhatawdekar		
21.	Tushar Shrishrimal Mateen Ansari Umesh Chitnis		
22.	Prafulla P. Rajeshirke	M/S Melux Control Gears Pvt. Ltd.  02/12/14 to 12/12/14	S.E Instrumentation
23.	Hrishikesh G. Bhosale		
24.	Siddhi A. Raut		
25.	Sourabh V. Kulkarni		
26.	Nishad S Deshpande		
27.	Sneha S Ghadge		
28.	Sangram P Lene		

29.	Rishabh Mkankariya		
30.	Chaitanya Adkar	Indian Farmers Fertiliser Co-Op Ltd.GandhiNagar, Gujrat. 25/11/14 to 12/12/14	BE Instrumentation
31.	Rohini Sharma	Kisan Mouldings Ltd., Bangalore. 20/11/14 to 19/12/14	TE Instrumentation
32.	Hemangi Khadilkar	Digitronics,Pune 01/12/14 to 13/12/14	TE Instrumentation
33.	Gauravi Sathaye		
34.	Aniket Zagade	Deepmaya Engineering,Pune. 17/12/14 to 09/01/15	TE Instrumentation

**e) Industry Associated BE Projects**

Sr.No	Name Of the Company	Department	Student Name
1.	PCMC water Treatment Plant	Instrumentation Engg	Akshay Bharate, Tushar Shrishrimal, Mateen Ansari
2.	Schematic Aircon & Automation Pvt.Ltd.		Madhuri More Kamal Mohite
3.	CWPRS, Pune		Akash Chavan Nikhil Rakshe Pritam Kudale
4.	University of Pune		Shreyas Raut Umesh Chitnis
5.	Cummins India Ltd.		Shaikh Reshma Arachana Waghel Shraddha Arekar
6.	Bharat Forge, India		Pooja Shinde Tina Patil Kajal Jadhav
7.	CWPRS, Pune		Harshawardhan Khamkar Tejas Kamble
8.	M/S S.M.Engineers		Saurabh Rabade Miten Dandawate Chaitanya Adkar

9.	Mugdha Controls Engineers & Consultants		Siddharth Mungekar Mayur Patil
10.	Honeywell Automation Ltd.		Pushkaraj Jadhav Dhanashree Landge
11.	PCMC water treatment Plant		Shekhar Kulkarni Vinay Mohite
12.	Analogic Automation Pvt. Ltd.		Varun Chavan Rahul Shelke
13.	Electronet Equipment Pvt Ltd, Pune		Sagar Patil Aditi Kurhade
14.	SAS Automation, Pune		Prathamesh More Ajinkya Kapure
15.	SAS Automation, Pune		Madhav Kadam Suraj kadam Santosh Nalge
16.	Sumark Techno Engineering Pvt Ltd, Pune		Gaurav Mulay Nishant Kulkarni

**f) Training and Placement Activities at department level**

Sr No	Organization	Topic	Date
1	<b>Instrumentation Engineering</b>	GRE, GMAT preparation session by CHOPRA's for T.E students	23/07/14
2		"How to do the placement preparation" for S.E students by N.D.Gaikwad	30/07/14
3		"How to do the placement preparation" for T.E students by N.D.Gaikwad	18/07/14
4		"How to do the placement preparation" for B.E students by N.D.Gaikwad	18/07/14
5		Seminar on preparation of GATE for T.E students organized by central T&P	08/08/14
6		SEED Aptitude and Soft Skill Session	Weekly & 15/12/14 to 24/12/14

#### 4. Staff Contribution towards quality improvement:

##### a) Research Grants received:

Sr. No	Name of the Investigator(s)	Title of the Research Project/Scheme	Name of the funding Agency	Duration of the project/scheme	Amount Sanctioned (Rs.)	Major / Minor
1.	Mr.A.D .Rahulkar	Implementation of Iris Recognition algorithm	BCUD, University Of Pune	2yrs	1,15,000/-	Major

##### b) Memorandum of Understanding:

Sr. No	Department	Industry	Resource persons	Area of Interaction	Activities conducted
1.	Instrumentation	Beckhoff New Automation Technology	Beckhoff Training Centre, Pune	TwinCAT PLC Training Course-TR1020	Practical Training on Twin Cat PLC trainer kit for 4 days
2	Instrumentation	GYRO Automation Services	Mr.Chetan Jichkar	Protocol Conversion and System Integration	Hands on Session for the Protocol Conversion.

##### c) Journal Publication:

Sr. no.	Name of the Teacher/author	Title of the paper	Name of the Journal/ Proceeding/ Edited Books	Volume & pages	Year of Publication	ISBN /ISSN No.
1.	Mr.H.P.Chaudhari	“Segmentation of retinal vessels by the use of Gabour wavelet & linear mean squared error classification”	IJEERT	Vol-2, issue-2	May 2014	
2.	Mr.S.C.Rajgade	Design & implementation of ECG telemetry system	IJSER	Vol.6 Issue-4	April 2015	ISSN:229-



		based on ZIGbee.				5518
3.	Mrs.V.V.Kale	Temperature & Humidity Control in Coastal Base Station	IJTRE	Vol.2 Issue-8	April 2015	ISSN: 2347- 4718
4.	Mrs.V.V.Kale	Conventional Fire Alarm System	IJSER	Vol.6 Issue-4	April 2015	ISSN: 2229- 5518
5.	Mrs.S.V.Kulkarni	Design and development of remote control surveillance vehicle	IJSETR	Vol 4 Issue-4	April 2015	ISSN:2 278- 7798
6.	Mrs.A.A.Shinde	Light Intensity meter Calibration using Comparison Method	IJSER	Vol-6, Issue3	March 2015	ISSN2 259- 5518
7.	Mrs.A.A.Shinde	Automated Pasteurizer Unit for on- Farm Pasteurization of Milk	IJETAE_04 15_147	Vol 5	April 2015	ISSN 2250- 2459

**d) Resource persons:**

Sr. No	Staff Name	Date & Place	Details
1.	Dr.A.D.Rahulkar	22/09/14 JSPM, Wagholi pune	Avishkar 2014, JSPM's Bhivarabai Sawant Inst. Of Technical and Research, Wagholi Pune
2	Mrs.G.S.Ingle	24/03/15 at AISSMS IOIT, Dept. of Electronics Engg	Guest Lecture on topic: "PLC and PID controller" of subject Control system for S.E Students

**e) Seminar/Workshops/Conference organized**

Sr. No	Department	Topic	Conducted by	Date
1.	Instrumentation Engg	Workshop on BAIN TR1020-TwinCAT2 Training: PLC Programming at Beckhoff, Pune	Beckhoff Training Centre, Pune	11 & 12Aug.2014
2	Instrumentation Engg	Workshop on "Protocol Conversion and System Integration"	GYRO Automation Services, Amravati	25/03/15 & 26/03/15
3	Instrumentation Engg	Workshop on SCADA Design	Prolific Pune	
4	Instrumentation Engg	Workshop on "Application of Google Sketch up software"	Mayank Pahade, Laukik Sanghavi,	08/01/15

			Swapnil Hatte(TE students)	
5	Instrumentation Engg	Seminar on “” Role of Biomedical Engineer in Industry and Demonstration of Biomedical Equipments	Mangesh Khare(SE student), Gauravi Sathaye & Namrata Dhumal(TE students)	29/01/15
6	Instrumentation Engg	Project Poster Competition	Mrs.N.B.Mane, Mrs.V.V.Kale	17/03/15
7	Instrumentation Engg	Seminar on “Introduction to LabVIEW and Interfacing of Hardware with LabVIEW”	Mr.Pramod Chavan, HOD, E & TC,  KJEl’s Trinity College of Engineering	04/09/14

**f) List of Faculty Members who attended Course / Seminars / Workshops/STTP etc.**

<b>Sr. No.</b>	<b>Name of Staff</b>	<b>Event</b>	<b>Organized by</b>	<b>Date and Event</b>
1.	Mrs.N.B.Mane	Innovative concepts in Process Automation	DYPIET, Pimpri Pune	5/08/14 to 07/08/14
2.	Ms.N.S.Nagdeo	Innovative concepts in Process Automation	DYPIET, Pimpri Pune	5/08/14 to 07/08/14
3.	Dr.A.D.Rahulkar	FDP at Vishay Components	Vishay & CII	17/07/14 to 19/07/14
4.	Mr.H.P.Chaudhari	FDP at Vishay Components	Vishay & CII	17/07/14 to 19/07/14

5.	Mrs.S.V.Kulkarni	FDP at Vishay Components	Vishay & CII	17/07/14 to 19/07/14
6.	Dr.A.D.Rahulkar	Best practices in Curriculum Development for Instrumentation Engineering	COEP, Pune	08/08/14
7.	Mr.H.P.Chaudhari	Best practices in Curriculum Development for Instrumentation Engineering	COEP, Pune	08/08/14
8.	Mrs.S.V.Kulkarni	Innovative Management	PCCOE, Pune	05/07/14
9.	Dr.A.D.Rahulkar	An Embedded Generations Interface with Real World: A Practical Approach	Trinity College of Engg & Research, Pune, & CII	16/09/14 to 20/09/14
10.	Ms.R.D.Valsangkar	Keysight Education Symposium	Keysight Technologies & Synergy Measurement Technologies Pvt.Ltd	27/08/14
11.	Mrs.G.S.Ingle	Employability Enhancement for Engineering students through Automation training	Analogic Automation Pvt. Ltd & ISA,Pune chapter	21/08/14
12.	Ms.R.D.Valsangkar	NI Technical Symposium	National Instruments India.	23/09/14

13.	Ms.D.P.Inamdar	NI Technical Symposium	National Instruments India.	23/09/14
	Mr.S.C.Rajgade	1weeks FDP on Optimal Control system	COEP	5/01/15 to 09/01/15.
14.	Mr.S.C.Rajgade	2 weeks workshop on Control System	MHRD,IIT – Kharagpur,COEP	2/12/14-12/12/14
15.	Mr.HP.Chaudhari	2 weeks workshop on Control System	MHRD,IIT – Kharagpur,COEP	2/12/14-12/12/14
16.	Mrs.V.V.Kale	STTP on ‘Wavelets and its applications’	SGGS Institute of Engg. And Technology, Nanded	08.12.2014 to 12.12.2014

**g) Teaching Staff Achievement & Awards**

Sr. No.	Department	Name of Staff	Achievement & Awards
1.	Instrumentation	Mrs.A.A.Shinde	100% result in BAI & BAI
2.		Mrs.G.S.Ingle	100% result in IA
3.		Mrs.N.B.Mane	100% result in MEMS
4.		Mr.S.C.Rajgade	100% result in ACS
5.		Ms.D.P.Inamdar	100% result in BMI & ABMI
6.		Ms.R.D.Valsangkar	100% result in AI

**5. Students Achievements –**

**i) Students Technical Activities (2014-2015)**

Sr. No.	Name of the Students	Event in which Participated	Date	State/National/International Level	Prizes/Medals Won
1.	Saurabh MRabade	AVISHKAR-2014	22/9/14	Zonal Level	Participation
2.	Chaitanya Adkar	AVISHKAR-2014	22/9/14	Zonal Level	Participation
3.	Miten	AVISHKAR-	22/9/14	Zonal Level	Participation

	Dandawate	2014			
4.	Isha Tawade	AVISHKAR-2014	22/9/14	Zonal Level	Participation
5.	Akshay Dunakhe	AVISHKAR-2014	22/9/14	Zonal Level	Participation
6.	Ganesh Kale	Student's Technical Symposium & Exposition	15 <sup>th</sup> to 17 <sup>th</sup> Septe. 14	National Level	Participation
7.	Shreyas Raut	Puroshattam Karandak	2/08/14 to 14/08/14	State	---
8.	Sudarshan Hake	Puroshattam Karandak	2/08/14 to 14/08/14	State	---
9.	Rahul Jadhav	Puroshattam Karandak	2/08/14 to 14/08/14	State	---
10.	Prathamesh Kanade	Puroshattam Karandak	2/08/14 to 14/08/14	State	---
<b>Workshops Attended</b>					
1	Pushkaraj Jadhav	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
2	Ganesh R.Kale	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
3	Santosh Nalge	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
4	Tushar Shrishrimal	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
5	Vrushali Thigale	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
6	Ansari Abdul Mateen M.A.	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation

7	Nikhil Rakshe	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
8	Umesh Chitnis	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
9	Akshay Bharate	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
10	Udaya Waje	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
11	Priyanka Yadav	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
12	Tejaswi Budre	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
13	Mukta Pendse	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
14	Rasika Yenorkar	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
15	Jitesh Chaudhari	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
16	Pooja Shinde	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
17	Aditi Kurhade	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
18	Mohite Kamalkishor	Innovative Concepts in	5-7 <sup>th</sup> August	State level	Participation

		Process Automation	2014		
19	Madhav Kadam	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
20	Abhishek Pansare	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
21	Mahendra Pisal	Innovative Concepts in Process Automation	5-7 <sup>th</sup> August 2014	State level	Participation
22	Madhuri More	Prolific: Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
23	Mahesh Chitnis	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
24	Gaurav Mulay	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
25	Nishant Kulkarni	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
26	Chaitanya Adkar	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
27	Abhijit Divekar	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
28	Saurabh Rabade	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
29	Sagar Patil	Prolific:Industrial Automation	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation

		Systems			
30	Shradha Arekar	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
31	Isha Tawade	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
32	Tejas Kamble	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
33	Mayur Patil	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
34	Rahul Agrawal	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
35	Miten Dandavate	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
36	Akshay Dunakhe	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
37	Prathamesh More	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
38	Vicky Jadhav	Prolific:Industrial Automation Systems	4-8 <sup>th</sup> Aug. 2014	Dept.level	Participation
39	Ganesh Ram Kale	MINDSPARK 14 Virtual lab.workshop	19-21st 2014		Participation
40	Santosh Nalge	MINDSPARK 14 Virtual lab.workshop	19-21st 2014		Participation
41	Akshay	AVISHKAR	22nd	Zonal Level	Participation



	Dunakhe	2014	Sep.2014		
42	Isha Tawade	AVISHKAR 2014	22nd Sept.2014	Zonal Level	Participation
43	Miten Dandawate	AVISHKAR 2014	22nd Sept.2014	Zonal level	Participation
44	Chaitanya Adkar	AVISHKAR 2014	22nd Sept. 14	Zonal Level	Participation
45	Saurabh Rabade	AVISHKAR 2014	22nd Sept.2014	Zonal Level	Participation
46	Aditi Kurahde	BAIN TR1020- TwinCAT2 Training: PLC Programming	11,12Aug. 2014	Dept.level	Participation
47	Ganesh Kale	BAIN TR1020- TwinCAT2 Training: PLC Programming	11,12Aug 2014	Dept.level	Participation
48	Santosh Nalge	BAIN TR1020- TwinCAT2 Training: PLC Programming	11,12Aug 2014	Dept.level	Participation
49	Sagar Patil	BAIN TR1020- TwinCAT2 Training: PLC Programming	11,12Aug 2014	Dept.level	Participation
50	Rahul Agrawal	BAIN TR1020- TwinCAT2 Training: PLC Programming	11,12Aug 2014	Dept.level	Participation
51	Mateen Ansari	BAIN TR1020- TwinCAT2 Training: PLC Programming	13,14 Aug. 2014	Dept.level	Participation
52	Rushikesh Gadale	BAIN TR1020- TwinCAT2 Training: PLC Programming	11,12 Aug. 2014	Dept.level	Participation
53	Madhuri More	BAIN TR1020-	11,12 Aug. 2014	Dept.level	Participation

		TwinCAT2 Training: PLC Programming			
54	Mukta Pendse	BAIN TR1020- TwinCAT2 Training: PLC Programming	11,12 Aug. 2014	Dept.level	Participation
55	Kamalkishor Mohite	BAIN TR1020- TwinCAT2 Training: PLC Programming	11,12 Aug. 2014	Dept.level	Participation
56	Abhishek Pansare	BAIN TR1020- TwinCAT2 Training: PLC Programming	11,12 Aug. 2014	Dept.level	Participation
57	Madhav Kadam	BAIN TR1020- TwinCAT2 Training: PLC Programming	11,12 Aug. 2014	Dept.level	Participation
58	Ganesh kale	Students Technical Symposium &Exposition AISSMS COE	15-17 Sept.2014	National Level	Participation

**ii) Students Cultural Activities (2014-2015)**

<b>Sr. No.</b>	<b>Names of the Students</b>	<b>Event in which Participated</b>	<b>Date</b>	<b>State/National/International Level</b>	<b>Prizes/Medals Won</b>
1.	Shreyas Raut	Puroshattam Karandak	2/08/14 to 14/08/14	State	---
2.	Sudarshan Hake	Puroshattam Karandak	2/08/14 to 14/08/14	State	---
3.	Rahul Jadhav	Puroshattam Karandak	2/08/14 to 14/08/14	State	---
4.	Prathamesh Kanade	Puroshattam Karandak	2/08/14 to 14/08/14	State	---

iii) Students Sports Activities (2014-2015)

Sr. No.	Name Of Student	Events	Organized By	Date	Level	Prize/Award
1.	Nishant Kulkarni	Summit 14 Inter engineering Cricket Tournament	MIT, Pune	27/08/14 to 14/09/14	National Level	Runners Up
2.	Suraj Shinde	Summit 14 Inter engineering Cricket Tournament	MIT, Pune	27/08/14 to 14/09/14	National Level	Best Bowler of the tournament & Man of the Match(1 <sup>st</sup> , 2 <sup>nd</sup> , and semi final)
3.	Prathamesh More	Summit 14 Inter engineering Cricket Tournament	MIT, Pune	27/08/14 to 14/09/14	National Level	Man of the Match(3 <sup>rd</sup> match)
4.	Ajinkya Kapure	Summit 14 Inter engineering Cricket Tournament	MIT, Pune	27/08/14 to 14/09/14	National Level	Runners Up
5.	Arun Mandale	Summit 14 Inter engineering Cricket Tournament	MIT, Pune	27/08/14 to 14/09/14	National Level	Runners Up
6.	Nishant Kulkarni	David Cup Cricket	University Of Pune	18/09/14 & 19/09/14	Zonal Level	Runners Up
7.	Suraj Shinde	David Cup Cricket	University Of Pune	18/09/14 & 19/09/14	Zonal Level	Runners Up
8.	Prathamesh More	David Cup Cricket	University Of Pune	18/09/14 & 19/09/14	Zonal Level	Runners Up
9.	Ajinkya Kapure	David Cup Cricket	University Of Pune	18/09/14 & 19/09/14	Zonal Level	Runners Up
10	Arun	David Cup	University	18/09/14	Zonal	Runners Up

	Mandale	Cricket	Of Pune	& 19/09/14	Level	
11	Shripad Kenekar	Summit 14 Football Championship	MIT Pune	10/09/14 to 14/09/14	National level	Participation as a Referee
12	Pushkaraj Jadhav	Chess Competition	University Of Pune	08/08/14 to 16/08/14	Zonal Level	Participation
13	More Prathamesh Prabhakar	Ubhe's Engineer's Cricket League 2014-2015 at AISSMS IOIT		Local	1 <sup>st</sup>	
14	Shinde Suraj Kamlakar	Ubhe's Engineer's Cricket League 2014		Local	1 <sup>st</sup>	
15	More Prathamesh Prabhakar	Ubhe's Engineer's Cricket League 2014		Local	1 <sup>st</sup>	
16	Shinde Suraj Kamlakar	ZEST' 13 organized by COEP PUNE		National	Participate d	
17	Kenekar Shripad Nitin	Basket Ball (men) Championship2 014-15 organized by6 sports department Bharati Vidyapeeth Deemed University	26 <sup>th</sup> December, 2014	National	Participate d	
18	Adkar Chaitanya Anil	Basket Ball (men) Championship2 014-15 organized by6 sports department Bharati	26 <sup>th</sup> December, 2014	National	Participate d	

		Vidyapeeth Deemed University				
19	Rabade Saurabh Mahesh	Basket Ball (men) Championship2 014-15 organized by6 sports department Bharati Vidyapeeth Deemed University	26 <sup>th</sup> December, 2014	National	Participate d	

**iv) Students' Journal Publication:**

**Paper publication in /National/International Seminars/Conferences**

Instrumentation							
Sr. No.	Name of the Student	Title of the Paper	Name of the Journal	Vol.	Pg. No.	Year	ISSN No.
1.	Mr.Mahesh Chitnis, Mr.Saiprasad Bhatwadekar,	Automated Pasteurizer Unit for on-Farm Pasteurization of Milk	IJETAE_0415_147	Vol 5	---	April 2015	ISSN 2250-2459
2.	Ms.Dhanashree Landge & Pushkaraj Jadhav	An efficient authentication and access control scheme using Smart Card	IJTRE	Vol 2, Issue-7,	---	March 2015	ISSN-2347-4718
3.	Mr.Saurabh Rabade, Chaitanya Adkar, Mr.Miten Dandavate	Light Intensity meter Calibration using Comparison Method	IJSER	Vol-6, Issue3	---	March 2015	ISSN2 259-5518
4.	Tina Patil,	Design and development	IJSETR	Vol 4	---	April	ISSN:2 278-

	Kajal Jadhav	of remote control surveillance vehicle		Issue-4		2015	7798
5.	Tejaswi Budre, Rasika Yenorkar, Jitesh Choudhari	A low cost vein detection system using camera devices	IJTRE	Vol2, Issue-7	---	March 2015	ISSN: 2347-4718
6.	Kajal Jadhav, Tina Patil	Design and development of remote control surveillance vehicle using Beaglebone Black Board	IJSART	Vol-1, Issue-3	---	March 2015	ISSN: 2395-1052
7.	Shekha Kulkarni, Vinay Mohite	Filter Bed automation using PLC	IJSART	Vol1, issue-3	---	March 2015	ISSN: 2395-1052

## 6. Industry institute Interaction:

### • Industrial Visits -Students

Sr. NO	Date of visit	Classes	Company	No. of students visited	Organised By
1.	24/7/2014	S.E.	Melux Control, Gears Pvt.Ltd Gultekdi, Pune	45	1.Mrs.S.V.Kulkarni 2.Mrs.V.V.Kale
2.	06/08/2014	S.E.	Indian Meteorological Dept, Shivajinager, Pune	41	1.Mrs.S.V.Kulkarni 2.Mrs.P.A.Pande
3.	19/8/2014	S.E.	Electronics Testing & Development Centre, Pune	41	1.Dr.A.D.Rahulkar 2.Ms.N.S.Nagdeo
4.	25/7/2014	T.E.	Katraj Dairy Pune	65	1.Ms.R.D.Valsangkar

					ar 2.Ms.D.P.Inamdar
5.	2/9/14	T.E.	Department of chemistry, Garware Research Centre, Savitribai Phule Pune University	60	1. Mrs.S. V.Kulkarni
6.	15/7/2014	B.E.	Beckhoff Automation	43	1.Mrs. A.A. Shinde 2.Mrs.G.S.Ingle
7.	16/7/2014	B.E.	Unique Dental Clinic	12	1. Ms.D.P.Inamdar
8.	23/7/2014	B.E.	Central water & power research station ,Pune	40	1.Mrs.Mane N.B. 2.Mrs.G.S.Ingle
9.	27/8/2014	B.E.	PCMC water treatment Plant, Pune	20	1.Mr.R.C.Rajgade 2.Mrs.G.S.Ingle
10	19/9/2014	B.E.	Rashtriya Chemical Fertilizers Ltd, Alibagh, Raigad	40	1. Mrs.Mane N.B. 2.Ms.R.D.Valsangkar
11	07/10/2014	B.E.	Volkswagen Group India , Chakan MIDC, Pune.	21	1.Ms.R.D.Valsangkar
12	13/01/2015	T.E	RUBY HALL CLINIC ,WANOARI	22	Mrs.S. V.Kulkarni
13	27/02/15	T.E	NIPS, Nashik	26	Mrs.N.B.Mane
14	27/02/15.	B.E	Oneness control Panels Pvt. Ltd	20	Mrs.N.B.Mane
15	13/03/15	B.E	DIPS, Thane	49	Ms.R.D.Valsangkar & Mrs.G.S.Ingle

16	13/03/15	B.E	OXYGRAND, Mauli Industries Pvt.Ltd	40	Mrs.N.B.Mane
17	27/03/15	B.E	Dept.of Electronics Science Pune	14	Mrs.N.B.Mane
18	03/03/15	B.E	College of Agriculture, pune	16	Ms.N.S.Nagdeo, Mrs.S.V.Kulkarni

**7. Professional Society Activities :**  
(Expert Lectures, Competitions, aptitude tests etc)

**Instrumentation Society of India (ISOSI)**

Sr. No.	Department	Date	Activity Details Topic	Speaker/ Judge	Organizer/ Staff Co coordinator / Student Coordinator
1.	Instrumentation Department	31/07/14	Hands on session on “Application of Proteus and Multisim Software” and competition	Shripad Kinikar, Gaurav Mulay	Mrs.P.A.Pande, Mrs. V.V.Kale
2.		04/08/14 to 08/08/14	05 days workshop on “Industrial Automation:PLC,HMI,SCADA”	PROLIFIC Pune	Mrs.G.S.Ingle, Mrs. V.V.Kale
3.		12/08/14	Seminar on “Instruction sets of AVR Microcontroller”	Chaitanya Adkar(BE Student)	Ms.N.S.Nagdeo, Mrs. V.V.Kale
4.		17/09/14	Guest lecture on Entrepreneurship	Mrs. Sayali Joshi,Head Shrishti Eco	Mrs. S.V.Kulkarni



				Research Institute	
5.		18/09/14	Seminar on Soft skill	Ms.D.P. Inamdar	Mrs.N.B.Mane, Mrs.V.V.Kale
6.		18/09/14	Seminar on “Programming with AVR Microcontroller”	Chaitanya Adkar(BE Student)	Ms. D.P.Inamdar Mrs.V.V.Kale
7.		24/09/14	Guest lecture on “New Trends in Biomedical Instrumentation”	Prof. Vivek Rane,HOD Instrumentation Dept, D.Y.Pimpri,Pune	Ms. D.P.Inamdar Mrs.V.V.Kale
8.		08/01/15	Workshop on “Application of Google Sketch up software”	Mayank Pahade, Laukik Sanghavi, Swapnil Hatte(TE students)	Ms. D.P.InamR.D. Valsangardar, Mrs.V.V. Kale
9.		29/01/15	Seminar on “Role of Biomedical Engineer in Industry and Demonstration of Biomedical Equipments	Mangesh Khare(SE student), Gauravi Sathaye & Namrata Dhumal(TE students)	Mrs. S.V. Kulkarni
10.		10/03/15-11/03/15	Two days workshop on “SCADA (Wonderware – Intouch) Software”	Prolific Systems & Technologies Pvt. Ltd.	Mrs.V.V. Kale
11.		17/03/15	Project Poster Competition	-----	Mrs.N.B.Mane, Mrs.V.V.Kale

## 12. Expert Lectures (2014-15):-

Sr. No.	Date	Topic	Conducted By	Organized By	Class
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1.	08/07/14	Numerical Methods	Mrs.K.S.Gadgil, Asst. Professor, AISSMS IOIT Electrical dept	Ms.R.D.valsangkar	T.E
2.	11/07/14	Optical Components	Mr.Prakash Borole, Managing Director, Precision Optics and scientific Instruments, Pune	Mrs.S.V.Kulkarni	S.E
3.	24/07/14	Hydraulic and Pneumatic system in Petroleum Industry	Mr.Sachin Rasane, Oil and Gas upstream Automation Specialists in Oil and Gas automation, EPC Project and Design solutions	Ms.D.P.Inamdar	T.E
4.	21/07/14	Process Instrumentation	Mr.Ravi Maknikar, Rockwell Automation, Pune	Mrs.N.B.Mane	B.E
5.	01/09/2014	Instrumental Methods for Chemical Analysis	Mrs.Aarti Pranjpe, Kulkarni Laboratories ,Pune	Mrs.S.V.Kulkarni	T.E
6.	29/09/14	Design of regulated power supply	Mr. Sanamnath Mathadevru, Technical Lead, Symphony Services, Pune	Mrs.V.V.Kale	S.E
7.	22/09/14	IOM	Mrs.A.S.Kulkarni, Bank Executive Shyamrao Vitthal Bank	Ms.R.D.valsangkar	T.E
8.	23/09/14	Project Engineering and Management	Mr.Sachin Shisode, Business Head, Strategic Engg.	Mrs.G.S.Ingle	B.E

		t			
9.	17/09/14	Entrepreneurship	Mrs. Sayali Joshi, Laboratory – Head, Aavanira Biotech Pvt. Ltd., Pune & CEO – Shrishti Eco- Research Institute (SERI), Pune,	Mrs.S.V.Kulkarni	B.E
10.	11/07/14	Village Technology Transformation	Dr. S. G. Kahalekar SGGS IET , Nanded	Mrs.S.V.Kulkarni	S.E.T. E & B.E
11.	04/07/14	Building Automation I	Mr. Sachin Pedhekar, U.L. Automation , Pune	Mrs.A.A.Shinde	B.E

### 13. STUDENT ASSOCIATION ACTIVITIES- INSAT

Sr. No.	Date	Activity Details Topic	Organizer/ Staff Co coordinator / Student Coordinator
1.	26/08/14 & 27/08/14	Light The Candles	Rohini sdubal, nikita gore
2.		Best friends forever	Parth Joshi, Jeetesh Garsund Vicky Jadhav
3.		Draw the tail	Hrishikesh Bhosale
4.		Tattoo making	Hrishikesh Bhosale
5.		Model making	Mr. Tejas Kamble(BE)
6.		Poster making	Mr. Tejas Kamble(BE)
7.		Technical Quiz	Sayali Shinde & Priyanka Yesade
8.		Rubik cubes	Saurabh Kulkarni
9.		SUDOKO	Ravina Sharma and Praphulla Rajashirke
10.		MEHENDI	Gauravi Sathaye and Hemangi Khadilkar
11.		ROBOTRIX	Anurag rag Ramarjun and Suraj

		Bhilare
12.	Fussball	Ashish khair and Siddhesh Peje and Nishant Kulkarni
13.	Touch Me Not	Shweta Kadam and Himani Bhavsar
14.	Paper Presentation	Rishab Kankriya and Sneha Ghadage
15.	ROBORACE	Anurag Ramarjun and Suraj Bhilare

#### 14. Department Activities:- Activity conducted by faculty members for faculty

Sr. No.	Name of Staff	Date	Details of activities performed
1.	Mrs.S.V.Kulkarni	11/07/14	Details and points of FDP attended on "Innovation Management"
2.	G.S.Ingle	22/08/14	Details and points of "Employability Enhancement for Engineering students through Automation training"
3.	Mrs.N.B.Mane and Ms.N.M.Nagdeote	08/08/14	Topics and discussion on the workshop attended on "Innovative concepts on Process automation"
4.	Dr.A.D.Rahulkar, Mr.H.P.Chaudhari and Mrs.S.V.Kulkarni	25/07/14	Points of FDP attended at Vishay Components.

#### 15. NSS Events:

- No. of students Enrolled:-25
- No. of NSS camps held-01
- Names of students participated in R.D.Parade- NIL
- Special work done by NSS students- Blood Donation Camp.
- Any Other Information:----

#### 16. List of Eminent Personalities who visited institute

Sr. No	Date of Visit	Name of Personality	Profile of Personality	Event	Organized By
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1	17/09/14	Mrs. Sayali Joshi	Laboratory – Head, Aavanira Biotech Pvt. Ltd., Pune & CEO – Shrishti Eco-Research Institute (SERI), Pune	Enterprenur eship	Instrumentatio n Dept.
2	11/07/14	Dr. S. G. Kahalekar	SGGS IET , Nanded	Lecture on “Village Technology Transformat ion”	Instrumentatio n Dept.
3.	21/07/14	Mr.Sachin Rasane	Oil and Gas upstream Automation Specialists in Oil and Gas automation, EPC Project and Design solutions	Hydraulic and Pneumatic system in Petroleum Industry	Instrumentatio n Dept.

### 17. Media Coverage:

1. Article published in SAKAL TIMES for the winner and runner up team of DAVID CUP cricket competition organized by University of Pune.
2. Article titled ‘Prajakta Thakur ranked 132 position in all over India in UPSC exam’ was published in SAKAL newspaper on 21/06/14. She was the student of instrumentation dept. of 2009-10 batch.
3. “MA LINGAON Relief fund donation by AISSMS IOIT, Instrumentation Dept. and others” published in SAKAL on 07/08/14.

### 18. Event Photograph



Entrepreneurship lecture by Mrs. Sayali Joshi, Laboratory – Head, Aavanira Biotech Pvt. Ltd., Pune & CEO – Shrishti Eco-Research Institute (SERI), Pune.



Dr.A.D.Rahulkar, Mr.H.P.Chaudhari and Mrs.S.V.Kulkarni attend days FDP at vishay components, Loni Kalbhor from 17/07/14 to 19/07/14.



Beck-Off workshop on **TwinCAT 2 Training: PLC programming** at Beckhoff Automation Pvt. Ltd



Workshop on “**Industrial Automation System: PLC, SCADA and HMI**” organized by the department under ISOI students chapter in coordination with Prolific System and Technologies Pvt.Ltd.pune



Social Activity at Anand Vihar Nivasi Matimand Vidyalaya by Miss.D.P.Inamdar and R.D.Valsankar along with T.F.Students



Mr.H.P.Chaudhari, Mrs.S.V.Kulkarni, Mrs.P.A.Pande visited Matoshri Vrudhashram Pune on 14/07/14.





Donation to SAKAL TIMES for MALIN GAON RELIEF  
FI IND



Distribution of Rakhi on occasion of Raksha Bandhan to  
Saraswati Anand Shikshan Anathashram, by Mrs.N.B.Mane  
and R.F.students



IV at Beck-Off Automation for B.E students on 15/07/14



IV at CWPRS for B.E students on 23/07/14



IV at Katraj dairy on 25/07/14 for T.E students

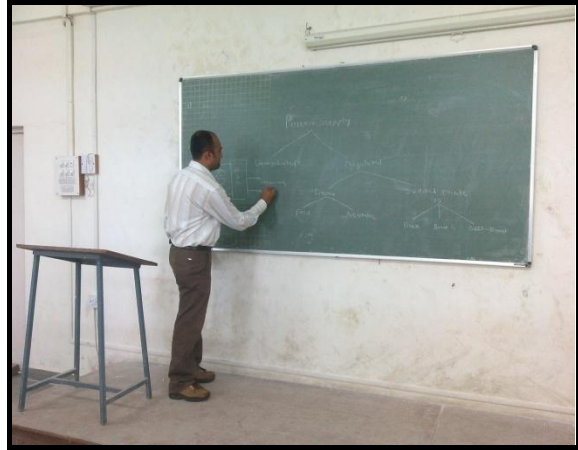


IV at Melux Control on 24/07/14 for S.E students





Industrial Visit at VolksWagen on 07/10/14 for B.E students



Guest lecture on 29/09/14 for SE students on "Design of regulated power supply" by Mr. Sanamath Mathadevu, Technical Lead Symphony Services Pune



Process Instrumentation Guest Lecture delivered by Mr.Ravi Maknikar, Rockwell Automation Pune for B.E students

Mr.Prakash Borele, Managing Director, Precision Optics and scientific Instruments, Pune conducted guest lecture on 11/07/14 for S.E students



Mrs.Aarti Pranjpe, Kulkami Laboratories ,Pune conducted guest lecture for T.E students on 01/09/14

Industrial Visist of T.E students at Chemistry Department , UoP.





Expert lecture on “Village Technology Transformation” by Dr. S. G. Kahalekar, SGGs IET, Nanded on date 11/07/2014



RUNNERS UP in National Level Inter-Engineering Cricket Tournament **summit'14** held at MIT, Pune.

**डेव्हिड कप क्रिकेट स्पर्धा**

पुणे, ता. १९ : पुणे शहर विभाग आंतरमहाविद्यालयीन डेव्हिड कप क्रिकेट स्पर्धेत अजिंक्य चाफेकर व दिव्यांग हिंगणेकर यांच्या युवा विद्यालया जेकराचे सध्या महाविद्यालयाने महाविद्यालयीन आयओआयटी संघाचे १९ चाचणी विजय मिळविले.

अन्य सामन्यांत डीईएसएनएफएफएलसी संघाने निदरसंन संघाचा दहा गडी राखून, आबासाहेब गरवारे महाविद्यालयाने पुणे विद्यार्थी युवांचे (पीव्हीएन) कॉलेज ऑफ इंजिनिअरिंगचा दहा गडी राखून, तर एसआयटीने श्री शाहू मॅसेर कॉलेजचा पाच गडांनी, तर निदरसंन महाविद्यालयाने मामासाहेब मोडोळ महाविद्यालयाचा २४ गडांनी पराभव केला.

**संक्षिप्त धावफलक :**

१) स.प. महाविद्यालय - (१८ षटकांत) ७ बाद १२४ (अजिंक्य चाफेकर ३८, दिव्यांग हिंगणेकर २४, सुवर्ण मरे १२, सुरज सिंदे २०-१४).

स्वर्गील डगळे २-२४) विजयी विरुद्ध ए.आय.एस.एस.एस.एस. आयओआयटी - (१८ षटकांत) ५ बाद १६ (सुरज सिंदे नाबाद ३२, स्वर्गील डगळे २०, दिव्यांग हिंगणेकर २-१२, अजिंक्य चाफेकर २-२०).

२) विटसॉम - (२० षटकांत) ८ बाद १४२ (शिदिज नाचणकर ४१, राहुल सोनवणे ३४, अतुल दराडे २४) पराभूत विरुद्ध डीईएसएनएफएफएलसी - (१५-२ षटकांत) विनबाद १४६ (विनाय तेलंग नाबाद ९२, अतुल नाचणकर नाबाद २८).

३) पुणे विद्यार्थी युवांचे (पीव्हीएन) कॉलेज ऑफ इंजिनिअरिंग - (१९-३ षटकांत) ११ (सुधास कागाड ३०, श्रेयस करंदीकर २०, अशांत साळुंखे ४-२०, निनाद कुलकर्णी २-१७) पराभूत विरुद्ध आबासाहेब गरवारे महाविद्यालय - (१५ षटकांत) विनबाद १४ (अशांत साळुंखे नाबाद ४३, निनाद कुलकर्णी नाबाद २५).

David Cup runner-up winner article published in SAKAL



Felicitation of Prajakta Thakur alumni of Instru dept by Shri. Chatrapati Malojiraje.