

**Vivekanand Education Society's Institute of Technology**  
**Department of Instrumentation Engineering**



**Academic Year 2017-18 (Odd Semester)**

**Department Report as on 01/11/2017**

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**Vivekanand Education Society's Institute of Technology**  
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# Vivekanand Education Society's Institute of Technology

## Department of Instrumentation Engineering



### Academic Year 2017-18 (Odd Semester)

#### Department Report as on 01/11/2017

Various activities conducted in the Department of Instrumentation Engineering in the Odd Semester of the academic year 2017-18 have been categorized as mentioned below:

#### 1. Faculty Contributions

##### 1.1. Courses Attended by Faculty

##### 1.1.1 Short Term Training Program (Total: 12)

Sr. No.	Attended by	Course Description	Organized by	Date	Number of days
1	Mrs. Jayashree Ramkrishnan	ISTE approved on Practical approaches in wireless communication	K J Somaiya, Vidyavihar	29 <sup>th</sup> May to 2 <sup>nd</sup> June 2017	5 days
	Mrs. Jayashree Ramkrishnan	Wavelets and machine learning	VESIT	3 <sup>rd</sup> July to 8 <sup>th</sup> July 2017	6 days
	Mrs. Jayashree Ramkrishnan	QIP on Biology for engineers	IIT Bombay	5 <sup>th</sup> June to 9 <sup>th</sup> June 2017	5 days
2	Mrs. Amudha Senthilkumar	Teaching tools and methodologies for engineers	Vidyalankar Institute of technology, Wadala	19 <sup>th</sup> June to 23 <sup>rd</sup> June	5 days

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## Department of Instrumentation Engineering

	Mrs. Amudha Senthilkumar	Role of mathematics in engineering	VESIT	3 <sup>rd</sup> July to 8 <sup>th</sup> July 2017	6 days
3	Mrs. Madhumati Khuspe	ISTE approved on Practical approaches in wireless communication	K J Somaiya, Vidyavihar	29 <sup>th</sup> May to 2 <sup>nd</sup> June 2017	5 days
	Madhumati Khuspe	Wavelets and machine learning	VESIT	3 <sup>rd</sup> July to 8 <sup>th</sup> July 2017	6 days
	Mrs. Madhumati Khuspe	QIP on Biology for engineers	IIT Bombay	5 <sup>th</sup> June to 9 <sup>th</sup> June 2017	5 days
4	Mr. Prasad Godse	Role of mathematics in engineering	VESIT	3 <sup>rd</sup> July to 8 <sup>th</sup> July 2017	6 days
5	Mrs. Deepti Khimani	Role of mathematics in engineering	VESIT	3 <sup>rd</sup> July to 8 <sup>th</sup> July 2017	6 days
6	Mrs. Sangeetha Prasanna Ram	Role of mathematics in engineering	VESIT	3 <sup>rd</sup> July to 8 <sup>th</sup> July 2017	6 days
7	Dr. M. D. Patil	Role of mathematics in engineering	VESIT	3 <sup>rd</sup> July to 8 <sup>th</sup> July 2017	6 days

**Vivekanand Education Society's Institute of Technology**  
**Department of Instrumentation Engineering**

**1.1.2 Orientation Program (Total: 01)**

<b>S r.</b>	<b>Attended by</b>	<b>Course Description</b>	<b>Organized by</b>	<b>Date</b>	<b>Number of days</b>
1	Mrs. Jayashree Ramkrishnan	Electrical network and measurements	Bharati Vidyapeeth College of Engineering, Navi Mumbai	31 <sup>st</sup> July 2017	1 day

Orientation Program at BVCOE for “Electrical network and Measurements” attended by Mrs. Jayassre Ramakrishnan

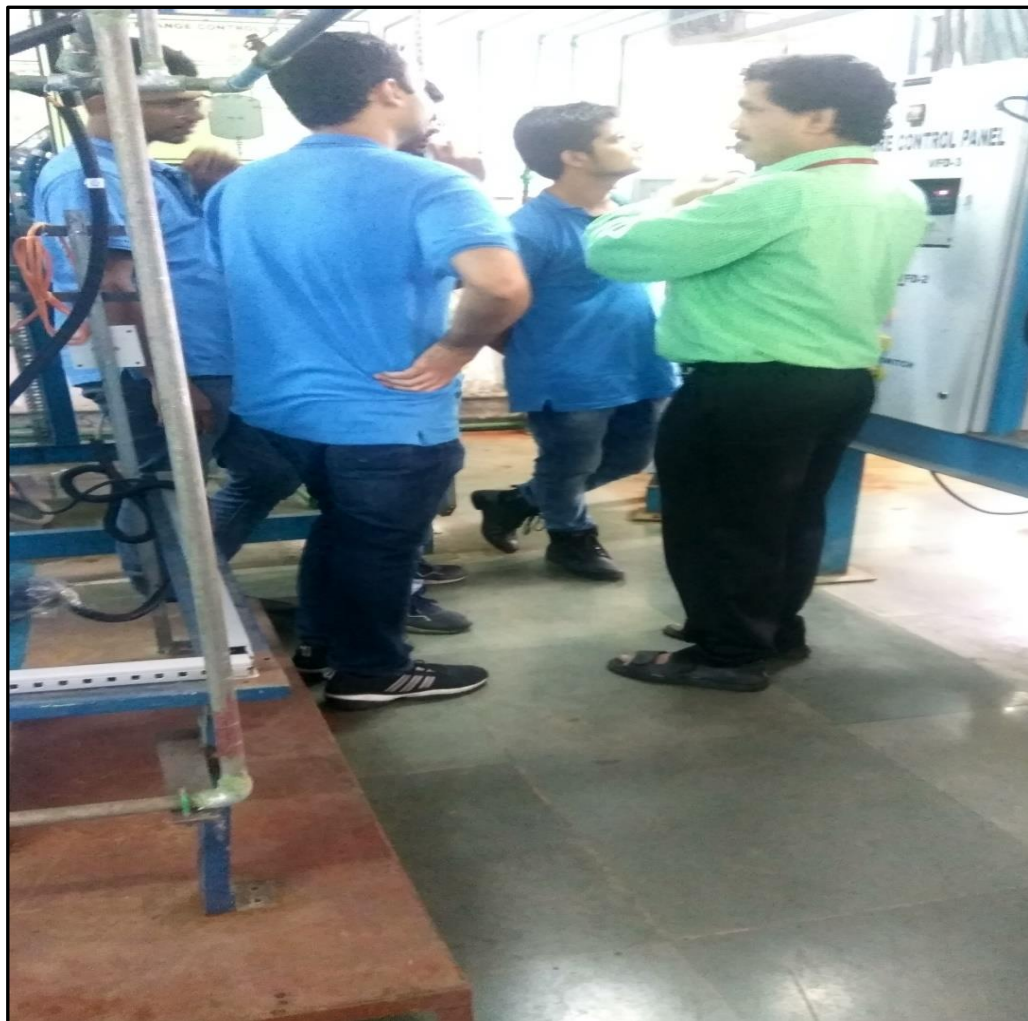


## 1.2 Courses Conducted by Faculty (Total: 08)

Sr. No.	Conducted by	Course Description	Organized by	Date	Number of days
1	Mrs. Kanchan Chavan	Training for L&T GTE	VESIT	28/07/17,04/08/17,12/09/17,31/07/17,07/08/17,13/09/17,01/08/17,08/08/17,14/09/17,02/08/17,09/08/17,15/09/17	12 days
	Mrs. Kanchan Chavan	Labview training workshop	VESIT	11 <sup>th</sup> July-17 <sup>th</sup> July 2017	7 days
	Mrs. Kanchan Chavan	AIA workshop	VESIT	3 <sup>rd</sup> July to 10 <sup>th</sup> July 2017	8 days
2	Mrs. Amudha Senthilkumar	Training for L&T GTE	VESIT	28/07/17,04/08/17,12/09/17,31/07/17,07/08/17,13/09/17,01/08/17,08/08/17,14/09/17,02/08/17,09/08/17,15/09/17	12 days
3	Mr. Prasad Godse	Training for L&T GTE	VESIT	28/07/17,04/08/17,12/09/17,31/07/17,07/08/17,13/09/17,01/08/17,08/08/17,14/09/17,02/08/17,09/08/17,15/09/17	12 days

4	Mrs. Kadambari Sharma	Training for L&T GTE	VESIT	28/07/17,04/08/ 17,12/09/17,31/ 07/17,07/08/17, 13/09/17, 01/08/17,08/08/ 17,14/09/17, 02/08/17,09/08/ 17,15/09/17	12 days
	Mrs. Kadambari Sharma	AIA workshop	VESIT	3 <sup>rd</sup> July to 10 <sup>th</sup> July 2017	8 days
5	Mrs. Nilima Warke	Training for L&T GTE	VESIT	28/07/17,04/08/ 17,12/09/17,31/ 07/17,07/08/17, 13/09/17, 01/08/17,08/08/ 17,14/09/17, 02/08/17,09/08/ 17,15/09/17	12 days
6	Mrs. Sangeetha Prasanna Ram	Labview training workshop	VESIT	11 <sup>th</sup> July- 17 <sup>th</sup> July 2017	7 days
7	Mr. Kader Shaikh	Labview training workshop	VESIT	11 <sup>th</sup> July- 17 <sup>th</sup> July 2017	7 days
	Mr. Kader Shaikh	AIA workshop	VESIT	3 <sup>rd</sup> July to 10 <sup>th</sup> July 2017	8 days

**Training for L&T GET** – L&T Graduate Engineer Trainees (GETs) training was conducted by Instrumentation Department, V.E.S.I.T from 28th July to 9th Aug, 2017 for 200 GETs. Main aim of this training was to provide hands-on on the module Instrumentation and Control Engineering to GETs of Electronics/ Instrumentation /Electronics & Communication/ Computer/Information Technology/ Mechanical/Production Engineering. Faculty involved in the training were, Mrs. Nilima Warke, Mr. Prasad Godse, Mrs. Kanchan Chavan, Mrs. Kadambari Sharma and Mrs. Amudha Senthilkumar. The photos below show Instrumentation faculty training Graduate engineering trainees from L&T on the different equipments and set-up in Process Instrumentation and Transducers Lab of Instrumentation department.

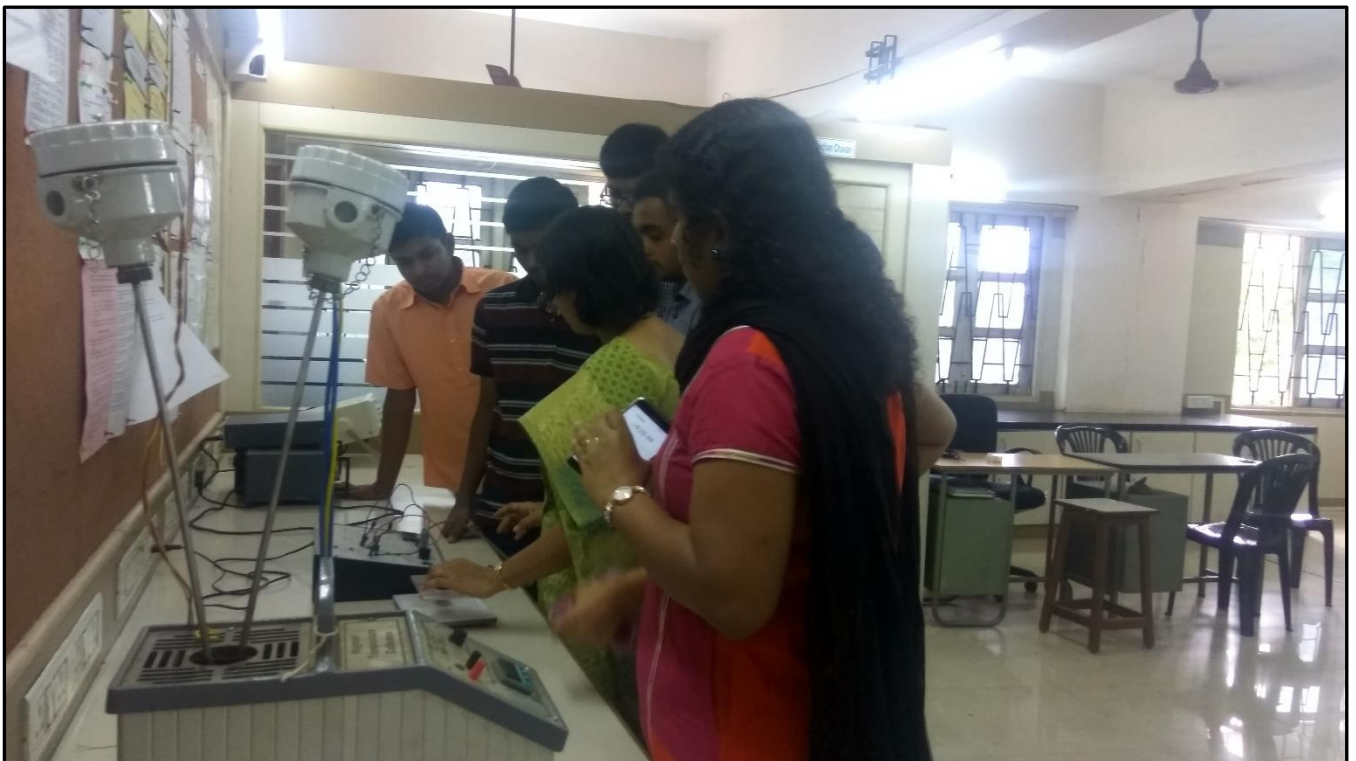


Training of L&T Graduate Engineering Trainees by Mr. Prasad Godse





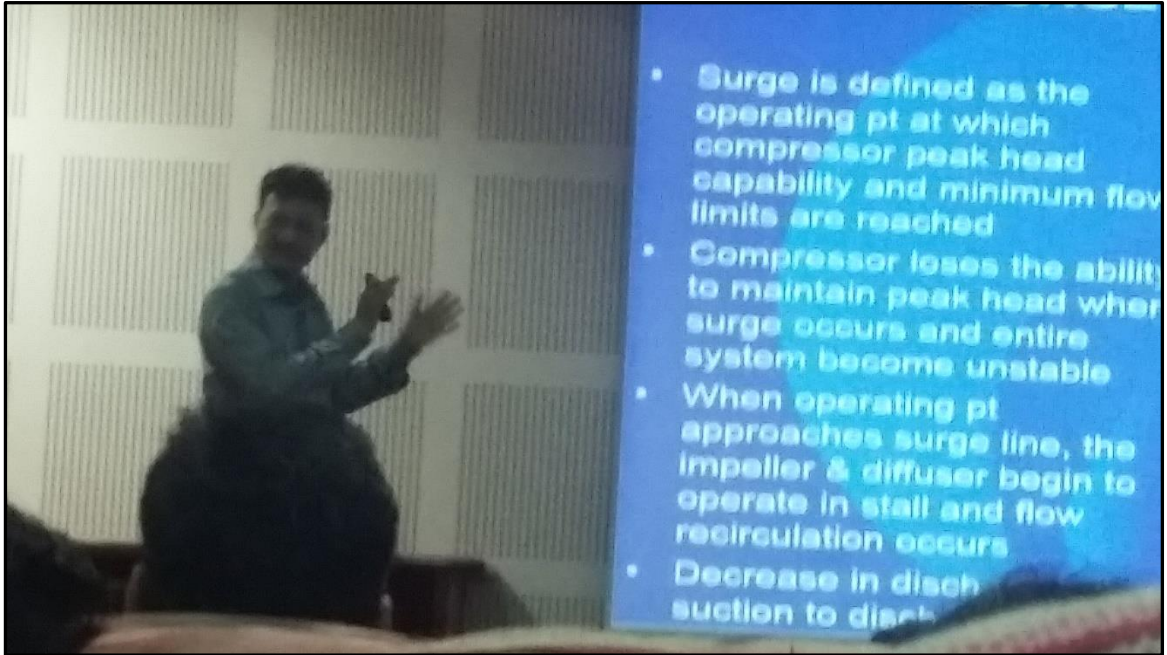
Training of L&T Graduate Engineering Trainees by Mrs. Kadambari Sharma



Training of L&T Graduate Engineering Trainees by Mrs. Amudha Senthilkumar

### 1.3 Skill Enhancement Lectures (SEL) (Total: 05)

1. “Overview of VHDL” by Mr. Mrugendra M. V., on 13<sup>th</sup> September 2017 for final year students for the subject “Digital electronics”.
2. “Antisurge control of compressor” by Mr. Rahul Bish, on 11<sup>th</sup> October 2017 for final year students.



3. “Forces at microscopic scale in Biology” by Dr. Ambarish Kunwar, IIT-B on 25<sup>th</sup> September 2017.





4. “Functional safety in refinery industry” by Mr. Vikram Gupta, Assistant manager at BPCL, on 16<sup>th</sup> September 2017 from 3 to 4.30.



5. “Functional safety” by Mr. Venkatasubramanian S, Lead IPF reliability, reliance industries Ltd, Mumbai, on 11<sup>th</sup> October 2017 from 10.30 to 11.30.



## 1.4. Research Forum Activities

### 1.4.1. Research Forum (Total: 01)

Sr. No.	Title of Event	Resource Person	Date
1	Tracking problem in Non-minimum phase system	Dr. M. D. Patil	3 <sup>rd</sup> October 2017

### 1.4.2. Minor Research Grant Proposals (Total: 02)

Sr No.	Name of Faculty	Title of Project	Research Domain
1	Mrs. Amudha Senthilkumar	Electronic talking gloves for speech disabled people	Electronics
2	Mr. Kadar Shaikh	Using Artificial Intelligence to reduce water loss by identifying water leaks in public utilities	Artificial Intelligence

### 1.4.3. Research Paper Published (Total: 01)

Sr. No.	Title of Event	Faculty Name	Type	Name of Journal/Conference	Date
1	A stochastic convergence analysis of random number generators as applied to error propagation using Monte Carlo method and Unscented transformation technique	Mrs. Sangeetha Prasanna Ram	International Conference	IEEE SPICES 2017	8 <sup>th</sup> – 10 <sup>th</sup> August 2017

## 2. Student Portfolio

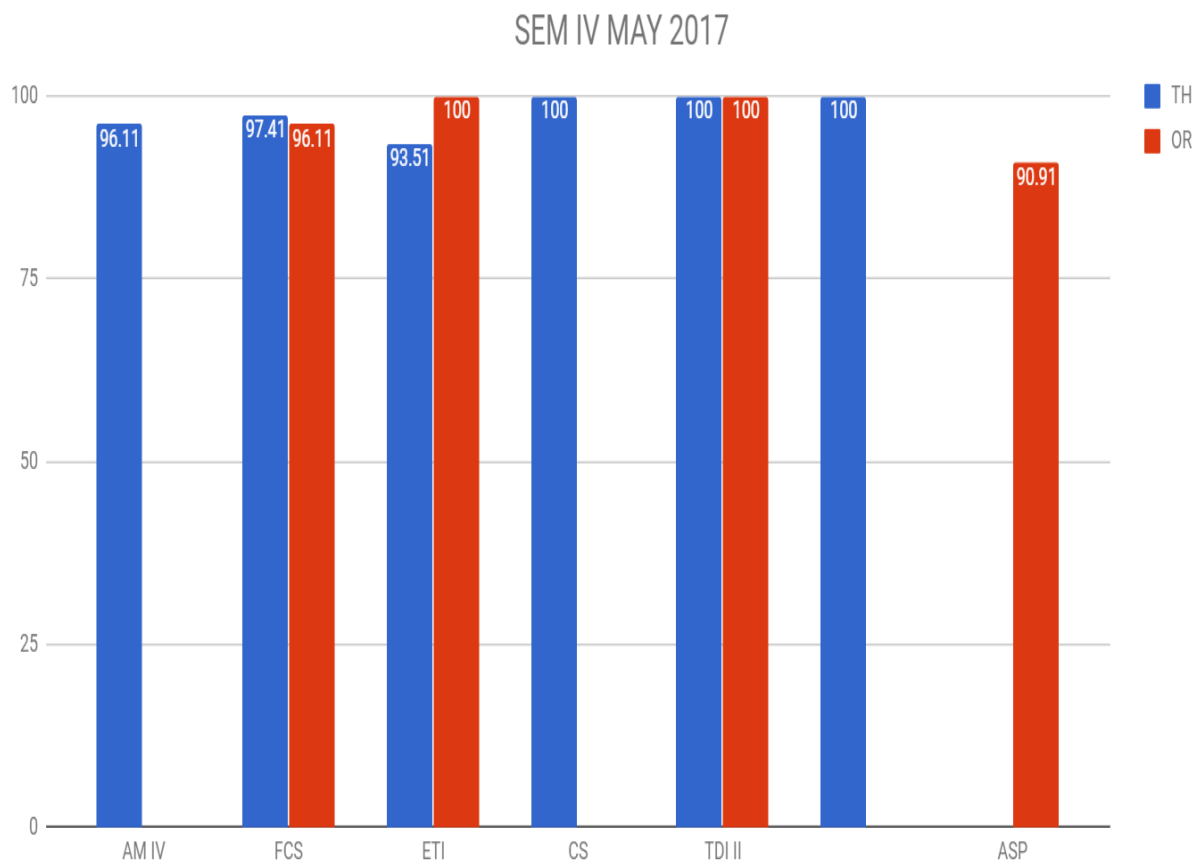
### 2.1. Student Achievements

#### 2.1.1. Academic Excellence

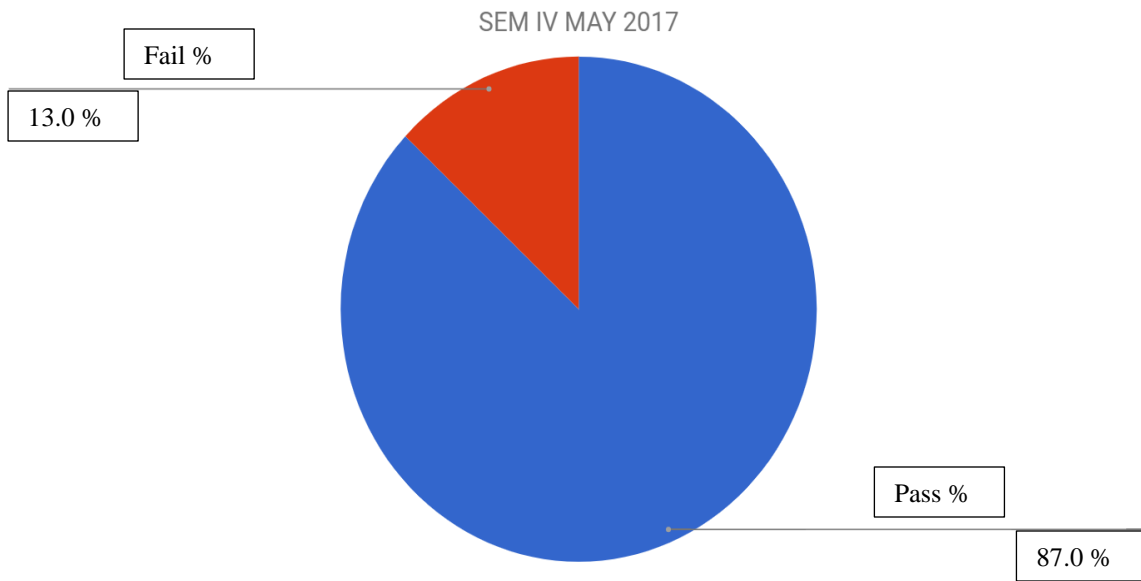
Statistical graphs illustrating the Semester Wise Result Analysis for the academic year 2016-17 (Even Sem) of Second Year (S.E.), Third Year (T.E.) and Final Year (B.E.):

The following graphs show the pass/fail counts and end semester performance of students for Semester IV, VI & VIII

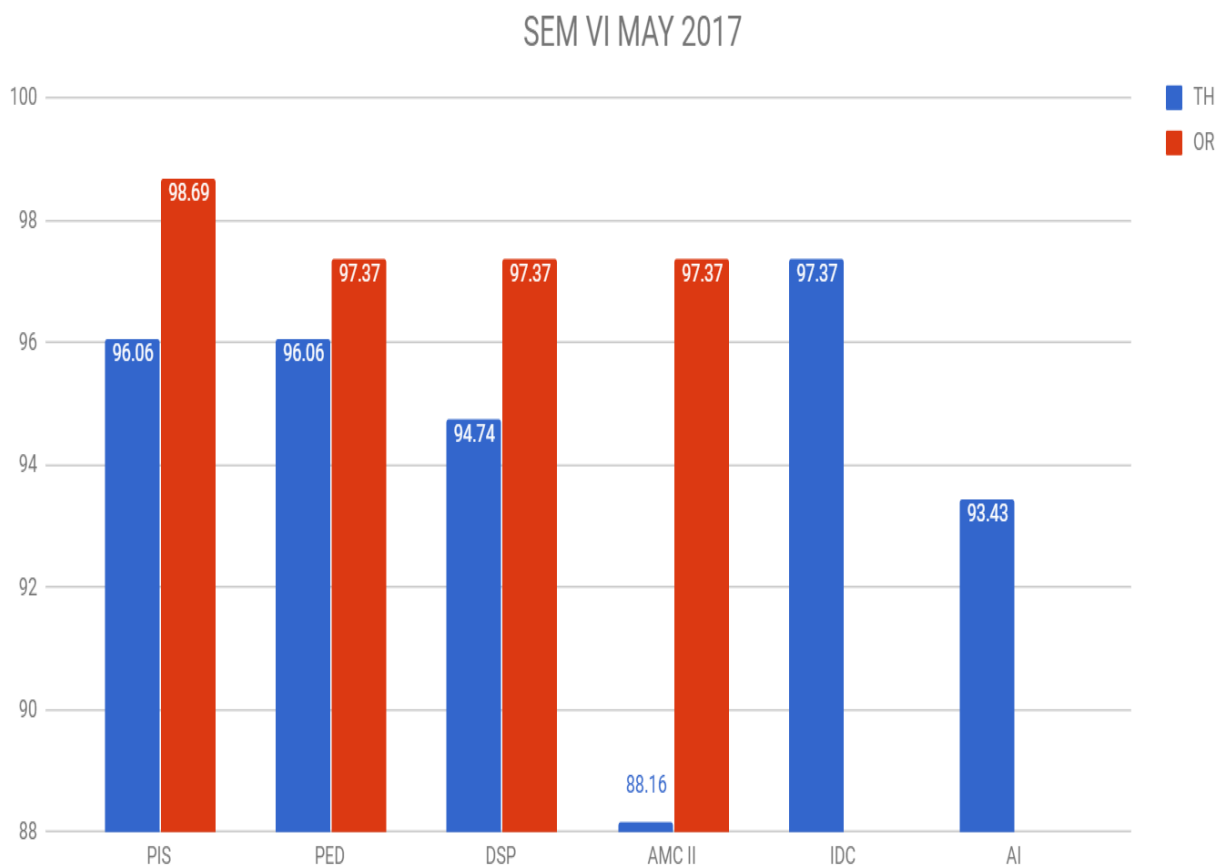
#### Course Performance Sem IV:



## End Semester Report

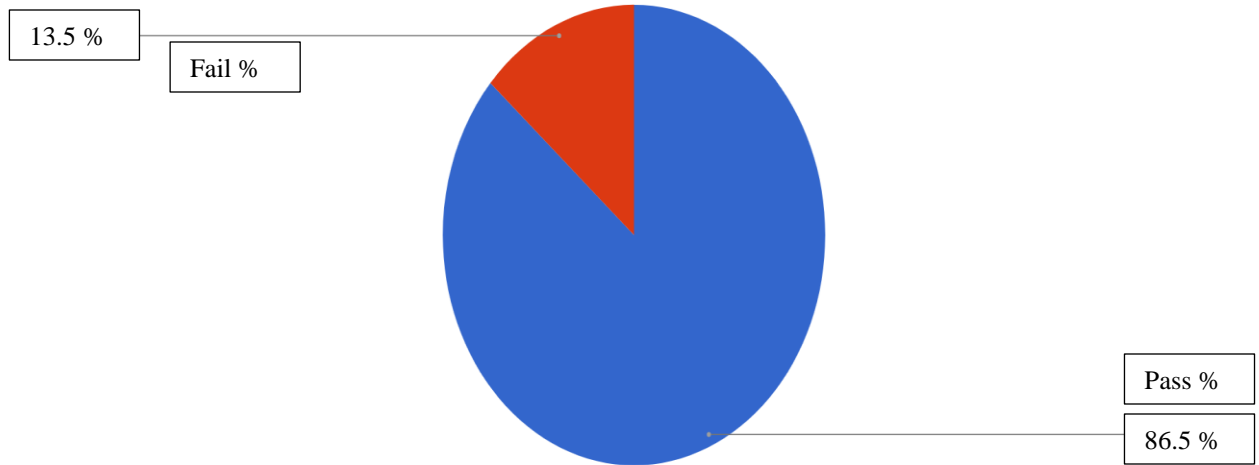


## Course Performance Sem VI:



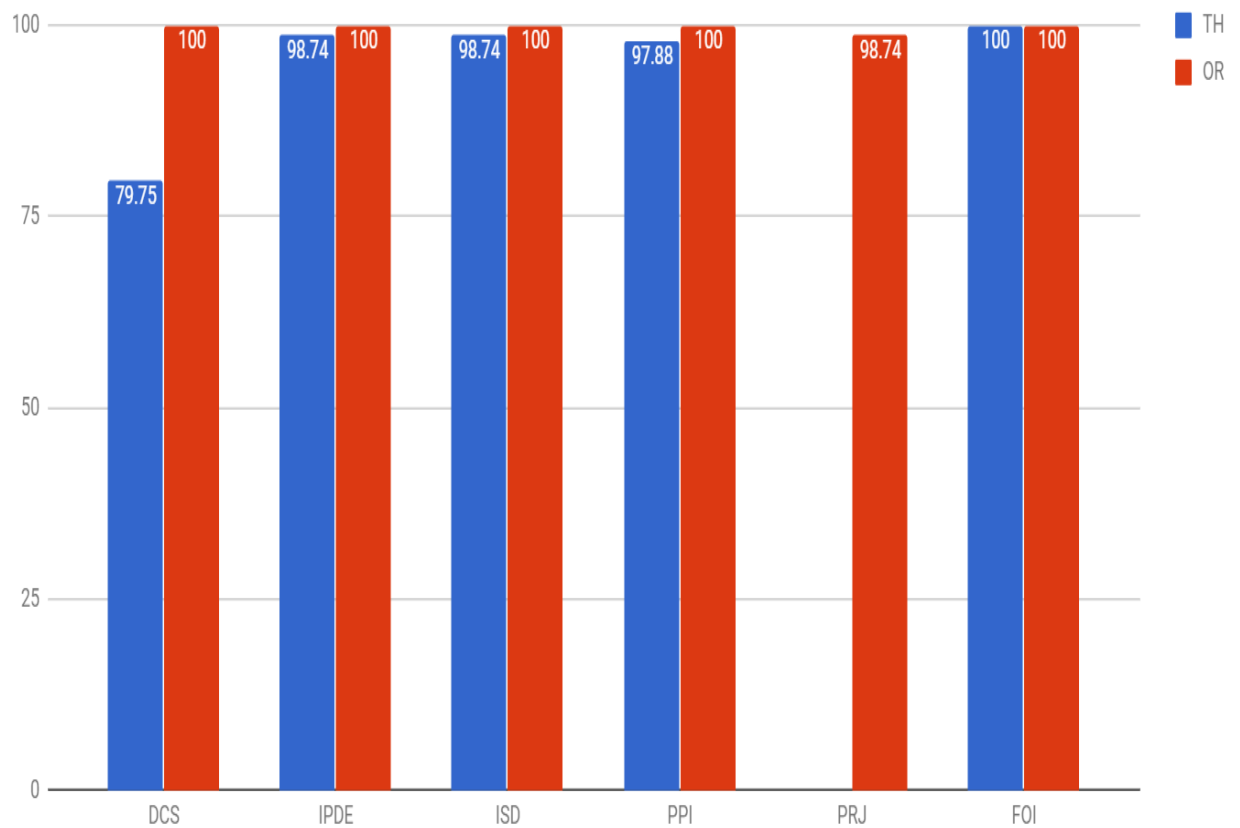
## End Semester Report

SEM VI MAY 2017



## Course Performance Sem VIII :

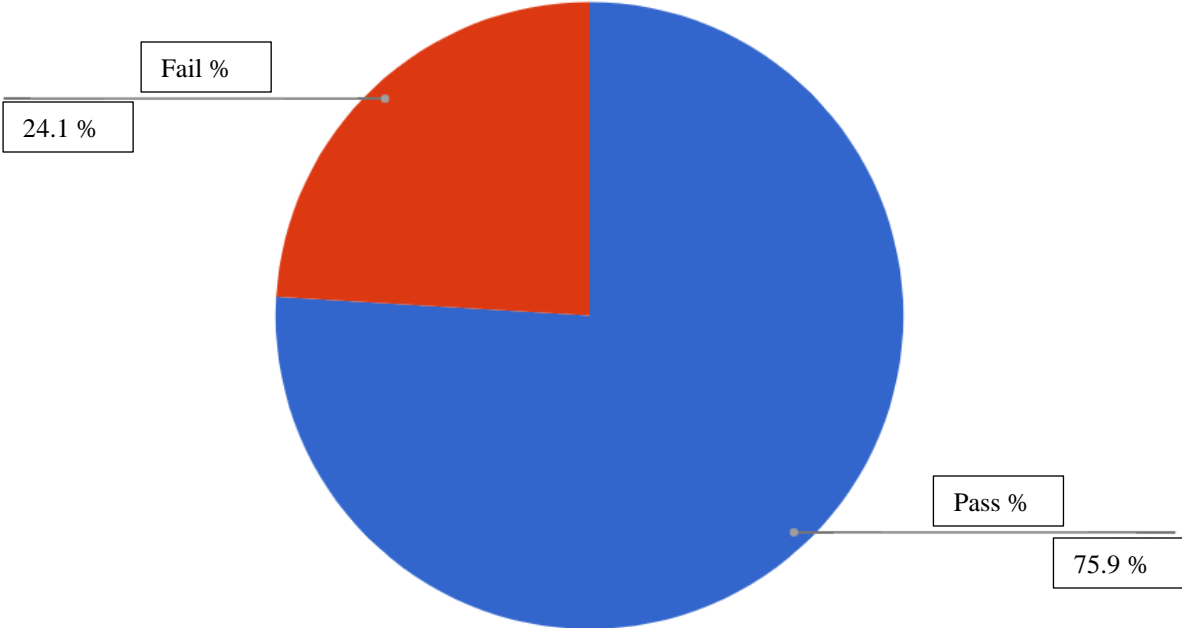
SEM VIII 2016





**End Semester Report**

SEMVIII May 2017



## 2.1.2. Placement Activities

### Placement Record for the year 2017-18 (as on 1<sup>st</sup> November 2017)

Sr. No.	Name of the student	Company	Salary (Per Annum)
1	Anjana Manoj	Accenture	3,50,000
2	Soha Bhadbhade	Accenture	3,50,000
3	Ajinkya Deshmukh	Accenture	3,50,000
4	Nitin Pandita	Accenture	3,50,000
5	Sachin Pathak	Accenture	3,50,000
6	Anjali Patil	Accenture	3,50,000
7	Shubham Patil	Accenture	3,50,000
8	Shantanu Pawar	Accenture	3,50,000
9	Bilal Syed	Accenture	3,50,000
10	Tanmay Zope	Accenture	3,50,000
11	Kaustubh kulpe	Atos	3,10,000
12	Vignesh Ramkrishnan	Jonson India Control	3,50,000
13	Kishan singh	Reliance	5,50,000
14	Varun chthani	Reliance	5,50,000

## 2.2. Student Participation

### 2.2.1. Summer Internship (Total No. of Workshops: 01)

As a part of Skill Development, a Summer Internship Program was organized for second year students (who will be going to third year) of VESIT, during the summer vacation from 15<sup>th</sup> June 2017 to 15<sup>th</sup> July 2017. Students were given project titles to work on and develop their skills in project management. The details of the Internship projects are attached below.

**Total No. of Students: 05**

**List of student:**

Sr. No	Name	Project Title
1	Dinesh Sonawane	Data Logger + Digital Thermometer
2	Hitesh Meriya	Data Logger + Speaking gloves for speechless person
3	Sonali Ukarde	Data Logger + Heartbeat sensor
4	Monica Sridharan	Data Logger + water level indicator
5	Sujata Pradhan	Data Logger + water level indicator

### 2.2.2 Finishing school (Total: 02)

It is a one-week training given to the students who are moving from third year to final year, briefing them on different courses like Transducers, Industrial instrumentation, Process Instrumentation etc. by faculty members of Instrumentation department. This is an attempt to prepare students for facing placements/interview more confidently. Some of the courses briefed and the corresponding faculty are listed in the table below:

Topic	Faculty name	Duration
Transducers	Mrs. Kadambari Sharma	18 <sup>th</sup> July 2017
Industrial Instrumentation	Mr. Prasad Godse	18 <sup>th</sup> to 22 <sup>nd</sup> July 2017

### **2.2.3. Workshops/Seminars attended by students (Total: 03)**

1. Workshop on "From Roaches to Robots" at ISME, Lower Parel, Mumbai.

**Date :** 12<sup>th</sup> August 2017

**Speaker:** Dr. Ravi Vaidynathan, The Imperial College of London

**Venue :** ISME, Lower Parel, Mumbai

**Audience:** Mrs. Sangeetha Prasanna Ram, Mr. Gopalkrishnan and 11 BE and 13 TE students.

The Indian School of Management and Entrepreneurship organized a talk on Biomechatronics and the latest developments in the field on Saturday, August 12, 2017. The talk was given by Dr. Ravi Vaidyanathan, who is a Senior Lecturer in the Biomechatronics Department at The Imperial College of London. His contribution to the field of Biomechatronics, Robotics, Amphibian Locomotives and now, Prosthetics are immense.

He started off by explaining to us his work in the area of Biomimicry, and how the various aspects of a cockroach's body were studied extensively and a robot created which had similar mechanical reactions, like stability on external stimulation, spring action and its ability to maintain its balance. He introduced us to the various possibilities and scope we have in this particular field even further on if we choose it.

He then went on to tell us about the amphibian robots, another of the biomimicry systems. There was a particular one which was extremely interesting and was used by the US military in fact, the aero-land robot. As tiny as a butterfly it could go into enemy territory and give us the required information effectively. There was also the hydro-land robot.

Another project he had worked on and talked to us about was the Whegs Robot, at one point it was the fastest robot with climbing abilities. Lastly sir explained his work on prosthetic limbs and the challenges involved.

The talk was inspiring, and provided us with an insight on the various fields we could work in, in the field of Biomedical and Biomechatronics. His passion and drive for his work was contagious and we were all left with a desire to know more.

The talk was attended by a group of students from D18, Anjana Manoj, Pawankumar Bhatla, Ishita Kekare, Shivam Kulkarni, Madhura Nikale, Shubham Patil, Shantanu Pawar, Nirnay Wankhede, Aditya Chandorkar, Vignesh Ramakrishnan and Kaustubh Kulpe.



Workshop on "From Roaches to Robots" at ISME, attended by 13 students of BE, TE along with 2 faculty



## 2. **Process lab orientation workshop**

**Date:** June 8-16th 2017

**Speaker:** Mr. Prasad Godse

With the completion of end semester, students from second year Instrumentation, rightly justified this quote, by not directly jumping on their vacations mode. Students with the special guidance of their teaching faculty, underwent a special workshop in process lab, for 5 days conducted from 8<sup>th</sup> of June 2017 itself. A batch of 15 students was specially trained for the upcoming semesters as well as demonstrated practical applications of their theoretical concepts by Mr. Prasad Godse sir. This workshop was split into various sessions, which included theory explanations and then practical demonstrations.



“Process lab Orientation workshop” conducted by Mr. Prasad Godse

### 3. Labview training workshop

**Date:** 11<sup>th</sup> to 17<sup>th</sup> July 2017

**Speaker:** Mrs. Sangeetha Prasanna Ram, Mrs. Kanchan Chavan, Mr. Kadar Shaikh

The training workshop was held during 11<sup>th</sup> July to 17<sup>th</sup> July for students. Our students were trained on Core 1 and Core 2 of Labview and prepared to take up projects in Labview for their final year project. Students were given certificates on successful completion of the training programme.



Certificate distribution of “Labview training Workshop” conducted by Labview Academy

#### 2.2.4 Entrepreneurship / R&D Projects undertaken by students: (Total: 06)

Academic Year	Name of Student	Class	Incubating industry/ institute	Number of days /months	Title of project / activity
2016-17	Deshpande Manasi Virupaxi	TE	VESIT	4-5 months	Surface Adaptive Assistant BOT
2017-18	Sawdekar Ninad Rajendra	TE	VESIT	2 months	Awakening the scientist
2016-17	Poojyam Anirudh	SE	ISA-VESIT	1 week	Voice Controlled Home Automation
2017-18	Jaladi Jyoti Satyavedam Rao	TE	HPCL	1 month	In plant and industrial communication
2016-17	Mahadeshwar Shivam Sainath	TE	VESIT	2 months	Surface Adaptive Balancing Bot
2016-17	Saha Souvik	SE	IIT-B	6 months	eYRC



## 2.2.5 Internship undertaken by students: (Total: 18)

Academic Year	Name of Student	Title of training or course	Class	Organizing industry/institute	No. of days	Date of training /course
2017-18	Matekar Santosh Ashok	Internship	SE	Vikram Industries	3 month	6/1/2017
2017-18	Lote Ninad Upendra	RCF Vocational Training	TE	Rashtriya Chemicals and Fertilizers Ltd	15 days	6/16/2017
2017-18	Deshpande Manasi Virupaxi	Internship at RK controls	TE	RK control instruments Pvt. LTD.	2 weeks	6/19/2017
2017-18	Bapat Rohit Chandrashekar	PID Tuning Workshop	TE	Advanced Training Institute	1 week	6/27/2017
2017-18	Deshpande Manasi Virupaxi	Internship at RK controls	TE	RK control instruments Pvt LTD	2 weeks	6/19/2017
2017-18	Chaudhari Utkarsha Madhusudan	1) Hands on of "Power Plant Familiarization" at DTPS.2) Plant Training for Hindustan Coca-Cola Beverages.	TE	1) Reliance Dahanu Thermal Power Station. 2) Hindustan Coca-Cola Beverages Pvt. Ltd	1)6 days; 2)16 days	6/8/2017
2017-18	Poojyam Anirudh	Internship	SE	Rashtriya Chemical Fertilizers Mumbai	15 days	6/16/2017
2017-18	Jaladi Jyoti Satyavedam Rao	Inplant and industrial communication	TE	HPCL	1 month	6/12/2017
2017-18	Mahajan Himanshu Ajit	Internship	TE	R. K. Control Instruments Pvt. Ltd.	15 days	6/19/2017
2017-18	Singh Rohit Sudhir	Internship	TE	Pneucon Valves	10 days	6/12/2017
2017-18	TIMMARAJ U SAI SNEHA	Power plant familiarization	TE	Reliance dahanum thermal power station	1 week	6/26/2017
2017-18	Pujare Pradnya Mangesh	Internship	BE	Govardhan consultancy	30 Days	6/15/2017
2017-18	Mysorekar Panindra Srinivas	AIA	TE	VESIT AIA	1 week	7/3/2017
2017-18	MINAKSHI VIJAY MOKAL	LABVIEW Workshop, GRADEME WORKSHOP, TRAINING IN RCF	SE	VESP LABVIEW ,VESP GRADEME, RCF TRAINIG-VESP	LABVIEW 2 DAYS,GR ADEME 5 DAYS, RCF 15 DAYS	3/11/2017
2017-18	Janhavi Tandale	Internship	BE	Jacobs engg india PVT LTD.(kondivita)	20days	6/22/2017
2017-18	More rutuja dattatray	LabVIEW,psoc	TE	Vesit,isa	1Week	1/6/2017
2017-18	Bamugde Trushali Raghunath	Summer Internship	BE	VESIT	15 days	6/30/2016
2017-18	Sangeeta Maurya	Internship	TE	Internship at Perfect Instrumentation Controls	3 weeks	6/12/2017

### 2.3. Alumni Interaction

An alumni interaction for Instrumentation Department was organized where many alumni communicated with the present batch final year students and guided them for future.



The session was aimed at guiding the current students in terms of career post - engineering. The session had a lot of Q&A sessions. The feedback and life changing experiences shared by the alumni was really worth taking into consideration. The students had their queries resolved related to different fields that can be explored post - engineering.





Alumni interacting with present batch of B.E Instrumentation students