



# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

VESIT-AIA Competency Development Center

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## VESIT-AIA Competency Development Center AIA -Annual Report 2019-20 Academic year 2019-20

Event description: Introduction of AIA Basic Automation Course to Third year ETRX, INST & EXTC.

Class	Date	Time	Faculties
D11A	12/10/2019	10.30-10.50	Kader Shaikh & Abhijit Shete
D11B	12/10/2019	10.50-11.10	
D13	04/10/2019	10.30-11.20	Kader Shaikh & Prasad Godse
D14B	11/10/2019	10.30-10.50	Kader Shaikh & Ajinkya Valanjoo
D14A	11/10/2019	10.50-11.10	
D14C	15/10/2019	1.30 - 1.45	

Event description:

“V.E.S. Institute of Technology (V.E.S.I.T) - Competency Development Center” by “Automation Industry Association (AIA)” regularly conducts “Integrated Automation: Basic Course” as a part of CAMPUS CONNECT INITIATIVE. This add on course gives more weightage to hands on training on the various kits specially made for this purpose as,

1. Sensors (P&F)
2. Pneumatics` (Festo)
3. Controls and Visualization (Siemens)
4. Motion Control (B & R Automation)
5. Integrated Stand-I and II

Date: 8<sup>th</sup> Jan to 23<sup>rd</sup> Jan 2020

Duration: 50 Hours course

Number of students: 05 (INST – 5)

Teaching Faculty: 11

Mr. Kader Shaikh, Mr. Abhijit Shete, Mrs. Rakhi Jadhav, Mr. Vijay Shejwalkar, Mrs. Ramya T, Mr. Prasad Gosde, Mrs. Nilima Warke, Mrs. Kanchan Chavan, Mrs. Gauri Sahoo, Mr. Ajinkya Valanjoo, Mrs.



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Kadambari Sharma

Event description: Visit to B&R Industrial Automation Pvt. Ltd, Wakdewadi, Pune

Date: 3<sup>rd</sup> February 2020

Duration: Full day

Number of students: 6

List of visiting staff members

1. Mrs. Kadambari Sharma
2. Mr. Ajinkya Valanjoo

B&R staff:

1. Mr. Praveen vaidya
2. Mr. Tanmay Sharma

Industrial visit was arranged for AIA students of Jan 2020 batch. One student of previous batch (Jan 2019) also accompanied for the visit.

This visit was to training center of B&R Industrial Automation Pvt. Ltd. Visit started with introduction about the company and its products like automation PC, PLC, HMI, drives, servo motors, stepper motors, linear motors, etc. Construction, working and applications of various components/devices/systems were explained in detail. Experimentation setup for pick and place robot, item segregation, print mark cross cutter, 3 axis robot systems were demonstrated.

Event description: Visit to Siemens Ltd, Kalwa Works, Thane

Date: 7<sup>th</sup> February 2020

Duration: Full day

Number of students: 5

List of visiting staff members



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1. Mr. Kader Shaikh

Siemens staff:

1. Mr. Prasad Ravekar
2. Mr. Sandeep Kadlak

Industrial visit was arranged for AIA students of Jan 2020 batch.

This visit was to product testing and customization center of Siemens Ltd, Kalwa Works, Thane. Mr. Prasad Ravekar briefed students about emerging technologies in PLC. He specifically spoke about how machine learning and artificial intelligence is affecting the development and operation of PLCs. He suggested students to make themselves aware about IIoT components and be aware of artificial intelligence technologies.

Mr. Sandeep Kadlak, started with brief description about different types of PLCs developed by Siemens. Sandeep explained steps for programming, deployment and trouble shooting in various automation projects. A guided tour to various facilities of department was arranged.

Event description: Workshop on PLC programming and simulation using B&R Automation Studio.

Date: May 14 to 19, 2020 (excluding May 17, 2020)

Duration: Five days

Number of faculty: 1

Name of faculty: Mr. Kader Shaikh

Number of participants (students): 12-22

Mode of lectures/session: Online using google meet

Number of industry expert: 1

Industry expert: Mr. Tanmay Sharma, System Engineer, B & R Automation, Pune

Details: Refer to, "Automation Studio Leaflet.docx" and "Automation Studio Workshop Documentation.docx"

Event description: Participation in webinar lecture series organized by VRC in association with VESIT-IQAC and IIC. Details of speakers arranged by VESIT AIA CDC are,

S	Name of speaker	Designation	Industry	Topic covered	Date & time
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1	Mr. Vinayak M. Khandeparkar	Director – Operations	V.S. Equipments & Automations Pvt. Ltd.	Machine Automation in Packaging (Industries: Pharma/Food /Cosmetics)	25 July 2020, 03:00 P.M.- 04:00 P.M.
2	Mr. Chandrashekar Iyer	Retired Executive Director	Bharat Petroleum Mumbai Refinery	Industrial Revolution 4.0 for Manufacturing sector	26 July 2020, 10:00 A.M.- 12:00 P.M.
3	Mr. Sagar Jorapur	Assistant Manager, Wireless & Digital Marketing	Emerson Automation Solutions	Pervasive Sensing enables Proactive Decision Making by transforming data into analysis	28 July 2020, 03:00 P.M. - 04:00 P.M.
4	Mr. Tanay Sil	Head - Business Development & Education Network	B&R industrial Automation Pvt. Ltd.	IIoT for Brownfield & Greenfield Projects	29 July '20, 10:00 A.M.- 12:00 P.M.

Event description: Participation in Instru-International Talk Series, organized by Department of Instrumentation in Association with VESIT - IQAC (Internal Quality Assurance Cell) and VESIT - IIC (Institution Innovation Council), Mumbai from 7 September to 12 September, 2020. Details of speakers arranged by VESIT AIA CDC are,

Sr	Name of speaker	Designation	Industry	Topic covered	Date & time
1	Dr. Zied M. Ouertani	Vice President, Chemicals & Refining	ABB Germany	Augmented Reality and Mobile Solution for Field Operators	10 Sep 2020, 02:30 P.M.- 03:30 P.M.
2	Mr. Ganesh R. Rapelli	R&D Product Manager	ABB Ability Innovation Center, Bangluru, India	Discussion or Chat with a Department Alumnus	09 Sep 2020, 02:30 P.M.- 03:30 P.M.



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## VESIT-AIA Competency Development Center AIA -Annual Report 2018-19

Event description: Visit to Bosch Centre of Excellence at NMIMS University

Visited, 'Bosch Centre of Excellence in Industrial Automation' in NMIMS Deemed to be University's Mukesh Patel School of Technology Management & Engineering (MPSTME), Vile Parle, Mumbai.

Date: 26<sup>th</sup> July 2018

Duration: Full day

List of visiting staff members

1. Mr. Kader Shaikh
2. Mrs. Kadambari Sharma
3. Mr. Vijay Shejwalkar
4. Mr. Ajinkya Valanjoo

Event description: Visit to IMA-PG India Private Limited

IMA-PG India Private Limited is engaged in assembling, sales and service of packing units used in pharmaceutical industry. Visit, <http://www.imapg.com>, for details about company.

Guest lectures and hands-on sessions could be arranged with experts from IMA-PG India Private Limited. Company is also willing to offer industrial visit, internship and placement for VESIT-AIA students.

Date: 20<sup>th</sup> October 2018

Duration: 2 to 6 PM

List of visiting staff members



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1. Mr. Kader Shaikh
2. Mr. Prasad Godse
3. Mr. Abhijit Shete

Company has donated following components/systems to college

Sr. No	Item Code	Description	Qty	Unit	Lab
1	H151251004	10.4" TFT LCD With USB TOUCH SCREEN	1	NOS	INST Lab 101
2	H872004005	500WAC SERVO MOTOR+DRIVE (REF SPECN)	1	SET	
3	H151251003	MXE-1301(EA) INTEL ATOM D2550+NM10, 6~36Vdc, DVI+VGA, 3x Gbe, 4x COM, 6x USB, 4xDIO, 1xmPCIe+USIM,1x	1	NOS	
4	H850006276	SIMETIC HMI KTP 600 DP COLOR: (SIEMENS)	2	NOS	
5	581779	HMI PV PLUS 600 COLOR- TOUCH ( 2711 PT6C5D )	1	NOS	
6	581181	DRIVE CONNECTOR MRJ2CN1 (MITSUBISHI)	4	NOS	
7	D6362081	ENCODER :T+R ZE65S	1	NOS	
8	581190	FX1N-60MTESS: 36 D I/P & 26 D O/P	1	NOS	
9	H850006163	OPERATOR COLOR 5.7" TOUCH PANEL :SIEMENS 6AV6 642-0BA01-1AX1	2	NOS	
10		Robotic Arm	1	NOS	ETRX Lab

Event description: Canvassing of AIA Basic Automation Course to Third year ETRX, INST & EXTC and BE students of ETRX, INST & EXTC without job offers.

Class	Date	Time	Faculties
D11A	10/10/2018	11.30-11.50	Kader Shaikh, Prasad Godse & Abhijit Shete
D11B	10/10/2018	11.50-12.10	
D13	13/10/2018	11.30-12.20	Kader Shaikh & Prasad Godse
D14B	13/10/2018	10.30-10.50	Kader Shaikh, Prasad Godse & Ajinkya Valanjoo
D14A	13/10/2018	10.50-11.10	
D14C	23/10/2018	3 - 3.20	
BE students	23/10/2018	3 - 3.20	Kader Shaikh, Prasad Godse & Ajinkya



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without job offers			Valanjoo
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#### Event description:

“V.E.S. Institute of Technology (V.E.S.I.T) - Competency Development Center” by “Automation Industry Association (AIA)” regularly conducts “Integrated Automation: Basic Course” as a part of CAMPUS CONNECT INITIATIVE. This add on course gives more weightage to hands on training on the various kits specially made for this purpose as,

6. Sensors (P&F)
7. Pneumatics` (Festo)
8. Controls and Visualization (Siemens)
9. Motion Control (B & R Automation)
10. Integrated Stand-I and II

Date: 9<sup>th</sup> Jan to 24<sup>th</sup> Jan 2019

Duration: 50 Hours course

Number of students: 10 (INST – 5, EXTC - 5)

Teaching Faculty: 9

Mr. Kader Shaikh, Mr. Abhijit Shete, Mr. Vijay Shejwalkar, Mr. Prasad Gosde, Mrs. Nilima Warke, Mrs. Kanchan Chavan, Mrs. Gauri Sahoo, Mr. Ajinkya Valanjoo, Mrs. Kadambari Sharma

#### Event description:

Expert lecture on Automation systems. Hands-on in AIA systems.

Date: 6<sup>th</sup> February 2019, 2 PM to 5 PM.

Duration: 3 Hours

Number of participant (students): Attended by current batch (Jan 2019), previous batch (Jan 2018) and ME students.

#### Expert Faculty:

Mr. Sandeep Kadlak, Siemens Ltd, Thane

#### Event description: Visit to IMA-PG India Private Limited

Industrial visit for current batch (Jan 2019) of AIA students. Two students of previous batch (Jan 2018) and a second year student also accompanied for the visit.

Date: 8<sup>th</sup> February 2019

Duration: Full day

Number of students: 12

List of visiting staff members

3. Mr. Kader Shaikh



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4. Mr. Prasad Godse
5. Mrs. Kadambari Sharm

## VESIT-AIA Competency Development Center AIA -Annual Report 2017-18

### Event description:

“V.E.S. Institute of Technology (V.E.S.I.T) - Competency Development Center” by “Automation Industry Association (AIA)” regularly conducts “Integrated Automation: Basic Course” as a part of CAMPUS CONNECT INITIATIVE. This add on course gives more weightage to hands on training on the various kits specially made for this purpose as,

11. Sensors (P&F)
12. Pneumatics` (Festo)
13. Controls and Visualization (Siemens)
14. Motion Control (B & R Automation)
15. Integrated Stand-I and II

Date: 03<sup>rd</sup> July to 10<sup>th</sup> July 2017

Duration: 48 Hours course

Number of students: 04

Teaching Faculty: 10

Mr. Kader Shaikh, Mr. Vijay Shejwalkar, Mrs. Ramya T, Mrs. Rakhi Jadhav,  
Mr. Abhijit Shete, Mr. Prasad Godse, Mrs. Kanchan Chavan, Mrs. Gauri Sahoo,  
Mr. Ajinkya Valanjoo, Mrs. Kadambari Sharma

### Event description:

Expert lecture on IIoT and Industry 4.0. Lecture was organized in VESIT auditorium and was attended by third year students of ETRX, EXTC and INST. Lecture was followed by lab visit to VESIT-AIA lab in Lab 101. This event was organized as a curtain raiser for “Integrated Automation: Basic Course” planned in Jan 2018. Jan 2018 course was however cancelled due to poor response from students.

Date: 9<sup>th</sup> January 2018

Duration: 03 Hours

Expert Faculty:

1. Mr. Prasad Raverkar, Siemens Ltd, Thane



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2. Mr. Dhananjay Jadhav, Siemens Ltd, Thane

#### Event description:

The event consisted of two activities,

1. Review of current final year project by Mr. Sandeep Kadlak. Project implemented using AIA components.
2. Group discussion with TE (pre-final year) students for final year project engagement.

Mr. Sandeep presented a brief introduction on PLC, SCADA and HMI which was followed by detailed information regarding PLC and its applications. Several case studies were discussed with students. Focus was on the limitations and challenges faced by the customer and how the problems were solved using PLCs and other automation tools. Several application videos like 'Solar Tracking', 'Home Automation', etc were shown to the students.

Date: 6<sup>th</sup> February 2018

Duration: 2 ½ Hours

Number of participant (students): Attended by third year ETRX and INST students.

#### Expert Faculty:

1. Mr. Sandeep Kadlak, Siemens Ltd, Thane

#### Event description:

BE Project on "Plant Automation" developed by Sidhwani Kunaal, Dhaliwal Simran Kaur , Bhatla Pawan , Shendarkar Shalaka (all VESIT-AIA alumni's) has been judged as Best BE project of 2017-18 as per final review conducted on 26, 27 March 2018. The project was carried using hardware and software systems available in VESIT-AIA Lab. The project was guided by faculty associated with VESIT-AIA and monitored by experts from AIA partnering companies.

Demo of this BE project was done by final year students to third year students interested in taking up BE Project on hardware and software systems available in VESIT-AIA Lab.

Date: 17<sup>th</sup> April 2018

Duration: 01 Hours



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## VESIT-AIA Competency Development Center AIA -Annual Report 2016-17

### Event description:

“V.E.S. Institute of Technology (V.E.S.I.T) - Competency Development Center” by “Automation Industry Association (AIA)” regularly conducts “Integrated Automation: Basic Course” as a part of CAMPUS CONNECT INITIATIVE. This add on course gives more weightage to hands on training on the various kits specially made for this purpose as,

16. Sensors (P&F)
17. Pneumatics` (Festo)
18. Controls and Visualization (Siemens)
19. Motion Control (B & R Automation)
20. Integrated Stand-I and II

Date: 14<sup>th</sup> July to 21<sup>st</sup> July 2016

Duration: 50 Hours course

Number of students: 20

Teaching Faculty: 10

Mr. Kader Shaikh, Mr. Vijay Shejwalkar, Mrs. Ramya T, Mrs. Rakhi Jadhav,  
Mr. Abhijit Shete, Mr. Prasad Gosde, Mrs. Kanchan Chavan, Mrs. Gauri Sahoo,  
Mr. Ajinkya Valanjoo, Mrs. Kadambari Sharma

### Event description:

Two final year students who have completed “Integrated Automation: Basic Course” at VESIT-AIA were offered internship in Siemens, Thane.

Date: 22<sup>nd</sup> Dec 2016 to 10<sup>th</sup> Jan 2017

Number of students: 02

Name of students:

1. Umesh M Giri
2. Udaish Dalip Dadroo

### Event description:

“V.E.S. Institute of Technology (V.E.S.I.T) - Competency Development Center” by “Automation



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Industry Association (AIA) regularly conducts "Integrated Automation: Basic Course" as a part of CAMPUS CONNECT INITIATIVE. This add on course gives more weightage to hands on training on the various kits specially made for this purpose as,

1. Sensors (P&F)
2. Pneumatics` (Festo)
3. Controls and Visualization (Siemens)
4. Motion Control (B & R Automation)
5. Integrated Stand-I and II

Date: 13<sup>th</sup> Jan to 20<sup>th</sup> Jan 2017

Duration: 48 Hours course

Number of students: 05

Teaching Faculty: 10

Mr. Kader Shaikh, Mr. Vijay Shejwalkar, Mrs. Ramya T, Mrs. Rakhi Jadhav,  
Mr. Abhijit Shete, Mr. Prasad Gosde, Mrs. Kanchan Chavan, Mrs. Gauri Sahoo,  
Mr. Ajinkya Valanjoo, Mrs. Kadambari Sharma

Event description:

Meeting and discussion with Mr. Anup Wadhwa, Director AIA. Meeting was attended by Principal ma'am, HOD sir, faculty and students of VESIT-AIA.

Date: 8<sup>th</sup> Feb 2017

Duration: 02 Hours

Event description:

Expert lecture on Automation systems. Hands-on in AIA systems.

Date: 6<sup>th</sup> March 2017

Duration: 06 Hours

Number of participant (students & faculty): 17

Expert Faculty:

1. Mr. Niraj Godbole, Siemens Ltd, Thane
2. Mr. Dhananjay Jadhav, Siemens Ltd, Thane

Event description:

Pre-final event for "Project Idea competition" in VESIT-AIA.

Date: 15<sup>th</sup> March 2017

Duration: 01 Hours

Number of participant (students): 17

Judge Faculty:

1. Mr. A Nagananda, TPO, VESIT
2. Mr. Vijay Shejwalkar, General Engg, VESIT



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## Event description:

Expert lecture on IIoT and Industry 4.0. Lecture was organized in VESIT auditorium and was attended by third year students of ETRX, EXTC and INST. Lecture was followed by presentation of "Project Idea's" by VESIT-AIA students.

Date: 20<sup>th</sup> March 2017

Duration: 04 Hours

Number of participant (students): 17

Expert Faculty:

3. Mr. Prasad Raverkar, Siemens Ltd, Thane
4. Mr. Praveen Vaidya, B&R Industrial Automation, Pune

## Event description:

Lab visit by SE students. Presentation about the infrastructure and facilities of AIA Lab was made to second year students of ETRX, INST and EXTC. A lab visit was organized and detailed explanation of all facilities was given to visiting students.

Date: 8<sup>th</sup> April 2017

## Event description:

Refresher course for faculties'. Faculties covered topics that they teach in regular AIA course.

Date: 18<sup>th</sup> & 20<sup>th</sup> April 2017

Duration: 06 Hours

Number of participants: 09

Expert Faculty:

Topic	Faculty	Date and Time
Pneumatics	Vijay S and Ramya T	18 <sup>th</sup> April 2017, 2 to 4 pm
Sensor	Abhijit Shete and Rakhi Jadhav	18 <sup>th</sup> April 2017, 4 to 5 pm
PLC and HMI	Kader Shaikh, Prasad Gosde and Kanchan Chavan	20 <sup>th</sup> April 2017, 2 to 4 pm
Motion Control	Kadambari, Ajinkya V and Gauri Sahoo	20 <sup>th</sup> April 2017, 4 to 5 pm



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## VESIT-AIA Competency Development Center AIA -Annual Report 2015-16

### Event description:

“V.E.S. Institute of Technology (V.E.S.I.T) - Competency Development Center” by “Automation Industry Association (AIA)” regularly conducts “Integrated Automation: Basic Course” as a part of CAMPUS CONNECT INITIATIVE. This add on course gives more weightage to hands on training on the various kits specially made for this purpose as,

21. Sensors (P&F)
22. Pneumatics` (Festo)
23. Controls and Visualization (Siemens)
24. Motion Control (B & R Automation)
25. Integrated Stand-I and II

Date: 14<sup>th</sup> Jan to 21<sup>st</sup> Jan 2016

Duration: 50 Hours course

Number of students: 17

Teaching Faculty: 10

Mrs. Nilima Warke, Mr. Kader Shaikh, Mr. Vijay Shejwalkar, Mrs. Ramya T, Mrs. Rakhi Jadhav, Mr. Abhijit Shete, Mrs. Kanchan Chavan, Mrs. Gauri Sahoo, Mr. Ajinkya Valanjoo, Mrs. Kadambari Sharma

### Event description:

Train the trainer program conducted by AIA for VESIT staff.

Date: 14<sup>th</sup> Dec 2015

Duration: 06 days

Number of participants (faculty): 12

Expert Faculty:

5. Mr. Prasad Raverkar, Siemens Ltd, Thane
6. Mr. Dhananjay, Siemens Ltd, Thane
7. Mr. Praveen Vaidya, B&R Industrial Automation, Pune



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## Event description:

Prerequisite course for Integrated Automation training.

Date: 12<sup>th</sup> Dec 2015

Duration: 01 days

Number of participants (faculty): 12

Expert Faculty:

1. Mrs. Nilima Warke
2. Mrs. Kadambari Sharma

## Event description:

Course on familiarization of PLC-HMI software of Integrated Automation lab.

Date: 02<sup>nd</sup> & 03<sup>rd</sup> Dec 2015

Duration: 02 days

Number of participants (faculty): 12

Expert Faculty:

1. Mr. Prasad Raverkar, Siemens Ltd, Thane
2. Mr. Dhananjay, Siemens Ltd, Thane
3. Mr. Praveen Vaidya, B&R Industrial Automation, Pune



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