Department of Electronics

Academic Year 2016-17 (Even Semester)

Department Activities:

➢ Industrial visit

- An Industrial visit was organized for second and third year ETRX students (12 students) to Bisleri plant, Mumbai on 10th march 2017.

➢ Student Achievements/ Activities/ Projects

Activities

- More than 60 students from third and final year completed Internship/ Industrial training in various companies such as BARC, HPCL, Godrej, Indian railways, etc. during summer vacation.
- Students were part of organizing teams of various events held in VESIT during Praxis-2017 on the 22nd and 23rd September 2017.
- More than 100 students from Department of electronics participated in various technical events during Praxis 2017.
- **18 Alumni are pursuing higher studies at Reputed International Universities.**

Spoken Tutorial:
Spoken tutorial is an initiative of national mission on education through ICT, MHRD, Govt. of India, to promote IT literacy through open source software. In our department we selected four software such C,C++,Java and Python for certification and the following number of students got certified-

91 Students got certified in "C".
48 Students got certified in "CPP".
60 Students got certified in "Java".
38 students got certified in "python"

Achievements

- Harish Yadav and Haroon Khan secured III position in "Electronic Design Automation Challenge" conducted by Dwarkadas J. Sanghvi College of Engineering in April ,2017
- Omkar Tulaskar, Pitam Mali, Mahesh Kulkarni reached Semi-Finals and won the Super Team award in Project "Deep Blue Competition" organised by Mastek Ltd. for completing a working solution for emergency situation by developing an android application during the period October 2017-February 2018.

- Narendra Walawalkar reached Quarter-Finals in IICDC organized by Texas Instruments , IIM Banglore, DST government , a national level competition for completing the project ASSIA(Aerial Servicing System Integrated with Android) in April 2017.
- Tejveer Singh Goraya, Abhinav Sridhar and Chaitanya Bhure reached the regional final of e-Yantra Ideas Competition in March 2017.

Publications by students

- **Ankit Panvalkar, Shubham Sawant, Varun Ghokle,Rushabh Shah** published paper in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering titled **"IMITATING BOTS" in ISSN** 2278-8875 Vol. 6, Issue 4, April 2017
- Ankit Panvalkar published a paper titled "Master-Slave Configuration Based Bluetooth Controlled Robots", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 6, Issue 3, March 2017, ISSN 2278 − 8875DOI:10.15662/IJAREEIE.2017.0603136.
- **Tejveer Singh Goraya, Chaitanya Bhure ,Abhinav Sridhar** published the paper titled "APPLICATION BASED SHOPPING TROLLEY(S-MART)". International Journal Of innovative Research in Science,Engineering and Technology – IJIRSET,ISSN(Online): 2319-8753Vol.6,Issue 8,August 2017.
- **Tejveer Singh Goraya, Abhinav Sridhar** published the paper titled "Automation of conventional Gas stove" .International Research Journal Of innovative Engineering and Technology – IRJET,ISSN: 2395-0056Vol.5,Issue   2,February 2018.

Seminars/Workshops:

PROJECT SKILL DEVELOPMENT WORKSHOP

The Workshop was organized between 10th and 15th July 2017.

- Mrs. Dipti Karani introduced the students to a new circuit simulation software "SEQUEL" along with hands-on.
- Mr. Chandrasekhar Javale elaborated on "EAGLE simulation software" and different components available within the design suite.
- Mr. Abhishek Chaudhari focused on the microcontroller family ATMEL and PROTEUS software.

- Mrs. Sarika Kuhikar introduced the students to Power Electronics with MATLAB SIMULATION SIMPOWER.

ANALOG ELECTRONICS AND PCB DESIGNING WORKSHOP

Tinkerer's Lab conducted the Analog Electronics & PCB Designing Workshop for five days 3rd August to 10th August 2017. Students from ETRX and INSTRUMENTATION department participated in this workshop. During this workshop students learnt the working of BJTs and Relays, Voltage Regulators and Operational Amplifiers as well as Circuit Implementation on a PCB.

Analog Electronics Workshop by Tinkeres Lab

Tinkeres lab conducting PCB Designing Workshop

EMBEDDED SYSTEM AND IoT WORKSHOP

Tinkerer's Lab conducted the Embedded Systems & IoT Workshop for five days from 15th September to 21st September 2017. Students from ETRX, EXTC and CMPN department attended this workshop. Students were introduced to Arduino UNO development board and were given a hands-on session on interfacing switches, LEDs, sensors and Motors with Arduino IDE. In the IoT Segment, students learnt how to make Node MCU a web server and host the web page. They were also taught the basic syntax used in PHP scripting.

Session of IOT Workshop

Department Rankers

- Nair Lakshmi Muralidharan secured first rank in final Year Electronics Department (2016-17) with CGPA 9.24
- Konde Saheli Vijay Vidya secured second rank in final Year Electronics Department (2016-17) with CGPA 9.18
- Nair Rahul Ganapathi Ramani secured third rank in final Year ElectronicsDepartment (2016-17) with CGPA 9.06

Placement activities

- It's an immense pleasure to announce that 86 students of 2013 -17 batch have got placement offers from various companies like Accenture, Capgemini, Atos ,L and T Infotech, LnT Core, Sankey Solutions,General Electric,Toppers.com.
- A Mock Aptitude Test (MAT) on Quantitative Techniques was conducted for third year students (2014-18 batch).

Scholarships

1.Suman Tulsiani Scholarship is awarded by Suman Ramesh Tulsiani Charitable Trust. This scholarship is decided centrally for VES colleges and forwarded to Tulsiani Trust. The criteria for this scholarship is that, the student should have a score of at least 7.00 grades and family income of less than three lakh per annum. This year it is awarded to following students of ETRX Department:

- Chowdhari Shoaib (S.E.)
- Akshay Bhise (S.E.)
- Gokul Narayanan (B.E.)
- Arvind Kushwaha (S.E.)
- Pawan Sukhwani (B.E.)
- Sayyadanwar Kazi (B.E.)
- Prathamesh Kulkarni (S.E.)
- Kiran Balakrishnan (T.E.)
- Sankalp Khandkar (B.E.)

2.Vivekanand Jyoti Scholarship is awarded every year to one student from each department. An Amount of Rupees Thirty thousand each is given every year. The criteria is a grade point of at least 7.00 and family Income of less than one lakh per annum. It was received by following student of ETRX Department:
- Harish Firatu (S.E.)

3. Geeta Israni Foundation Scholarship benefits meritorious students who scored grade point of 8.0 and above and whose family income does not exceed Rs.1.50 lakhs per annum. It was received by following students:

- Sankalp Dinanath Tripathi (T.E.)
- Madhav Agarwal (T.E.)

Guest lecture

- A Guest lecture by Prof. Naganada, Assistant professor, EXTC on "How to write a Research Paper" was arranged for the students of third year and final year on 21st march 2017.
  - Remedial and guidance lecture is arranged by department of electronics for students having weak academic records for improving their academic performance. The schedule is as follows
    - **SE**

Subject	Date	Time	Staff	Venue
Applied Mathematics III	1/03/2017	10.30am to 12.30pm	Mrs. BarnaliSaha	CA2
Electronic Devices	7/03/2017	12.45pm to 2.45pm	Mr. AbhijitShete	CA2
Digital Circuit Design	8/03/2017	12.45pm to 2.45pm	Mr. YogeshPandit	CA2
Circuit Theory	10/03/2017	12.45pm to 2.45pm	Mrs. SarikaKuhikar	214

- **TE**

Subject	Date	Time	Staff	Venue
Microcontrollers and Applications	1/03/2017	12.45pm to 2.45pm	Mr. AbhishekChaudhari	LAB 201
Signals and Systems	2/03/2017	12.45pm to 2.45pm	Mrs. Bharthi M.	213
Digital Communication	18/03/2017	12.45pm to 2.45pm	Mrs. RajaniMangala	214

●

●

● List of LBS projects

Sr.no	Name of the project	Names of the students	Mentor
1	College recommendation system	Nehal J, Sanjana M Darshana M, Shamli S	Mr. PrashantKanade(CMPN)
2	Smart door bell	Achyut D, Pavankumar S, Sahil T Shubham W	Mrs. AmudhaSenthilkumar (INST)

●

●

● The student activities for the ElectronicsDepartment are as follows:

● The Technology Day was celebrated on 20th March 2017(Monday). In the Department of Electronics Engineering(VESIT) , a **project exhibition** was organized and our third year (D11A & B) students attended an expert lecture on **"IIoT technologies and its impact on Indian Industry (and careers)".**

● The expert lecture on "IIoT technologies and its impact on Indian Industry (and careers)"was given by Mr.PrasadRavekar,Siemens Ltd & Mr. Praveen Vaidya , B& R Industrial Automation. It was received very well by our students.

●
● **Prasad Raverkar:**
● Senior Manager, Business Development, Siemens Ltd
● Num of years of experience – 22+
● Areas currently working – Automation
●
● **Praveen Vaidya:**

- Key Account - Manager at B&R Industrial Automation,
- More than 18 years of experience infield of Automation. He has associated with B&R an Automation Solution Provider for more than 13 years. Responsible for Business with Key Customers, Upskill of Sales and technical team.
-
- The project exhibition started from 12:30 PM. The response was very good from the students.There were 34 entries for the exhibition from second, third and final year students. Our students had good interaction and technical discussion with various Industrial experts, faculty and students from all departments who attended the exhibition. The correct approaches and design solutions were discussed.
- Mrs. Bharathi M and Mrs. NeelamChaudhari coordinated whole Technology day. Also, students and professors from various department visited project exhibition and appreciated efforts of students from Department of Electronics.
- **Venue of Project Exhibition: Lab Room No. : 201, 202, 214 and 215.**
-
-
-
-
-

List of Projects

Mini Projects by D11B

Group No.	Group Members	Project Title
1&2	Tejveer Singh Goraya	1. S-MART
	AbhinavShridhar	2. PRO2TECT
	ChaitanyaBhure	
3	Sam David	X-Y plotter
	ShivamGhodke	
	Rahul Dudhande	
	BhivaGawade	
4	NehalJahgirdar	Anchor Light
	SupriyaPalve	
	ChetanMhaske	
	HarshalKadlak	
5	SarveshDhage	FM Transmitter
	DhruvakumarAklekar	

	PrathameshChaudhari	
	AdityaGogwekar	
6	ChhayaPatil	DTMF Based Cell-Phone Operated Car
	GokulKizhakkeppattu	
	RushabhPatil	
7	SarveshDhage	Local Audio Amplifier
	DarshanDani	
	ChaitanyaAttarde	

Mini Projects D11A

Group No.	Group Members	Project Title
1	ShubhamSharadWani	Smart Doorbell
	SahilDilawarTasgavkar	
	PavankumarMadhukarSakhare	
	Achyut Dave	
2	ShubhamSharadWani	SmartCane
	SahilDilawarTasgavkar	
	PavankumarMadhukarSakhare	
	AtharvRangnekar	
3	Achyut Dave	Remote Video Surviellance Robot
	ShrutiShetty	
	MurtazaBaj	
	AbhishekDasari	Traffic Signal System On Proteus
	GauravDere	
4	GauravDere	Digital Tachometer
	ShrutiShetty	
	Sidharth C	
5	PavankumarMadhukarSakhare	Vesit Library Andoird App
	ChaitanyaBhure	
6,7	SanhitaBhagwat	1. LUX meter 2. Password based door lock system (Proteus)
	VirajBapat	
	PavitraKanse	
	RoshniIyer	
8	KiranKharat	PLC based Silo system (simulation)
	HitenMalkani	
9	KushalBhosale	Intelligent parking system(Proteus)
	HashmeetChaudhery	

	Clive dsouza	
	HariniIyer	
10	KushalBhosale	Fastest Finger first System(Proteus)
	HashmeetChaudhery	
	Achyut Dave	
	GauravDere	
11	ShrutiShetty	Remote Controlled Home Appliances(Home Automation)
	SiddharthMundada	
	GauravMahajan	

Projects by D16A

Group No.	*Group Members*	*Project Title*
1	ApoorvaSundaresan	Analysis of Image Enhancement Techniques
	IyerPavitraSrinivasan	
	PriyankaPatil	
2	ArjunBajpai	Rescue Assistant Inspection and Detection Rover
	Jay Anjankar	
	SagarEidani	
	AmrshaSrivastava	
3	AshwinPai	IOT based WSN
	Lakshmi Nair	
	VikasAhuja	
	PalashGajria	

Projects by D16B

Group No.	*Group Members*	*Project Title*
1	BHARAT GIDWANI	Voiceless to Voice
	HARSHAL JASNANI	
	JUHI MANGLANI	
	PRIYANKA THALE	
2	JAYDEEP LILARAMANI	Fusion Based Fingerprint Scanner
	RAHUL NAIR	
	NILESH DHANGADE	

Projects by D6B

1	AnkitPanvalkar	Imitating Bots
	Rushabh Shah	
	JayeshBhosale	

ShubhamSawant

-

Sr. No.	Project Title	Group Members
Tinkerer's Lab, VESIT - Technology Day Project List	
1	ASSIA - Aerial Serving System Integrated with Android	RohitKashyap Nikhil Prabhu MandarKharde NarendraWalawalkar UmeshRamchandani
2	SAPER - Semi Automatic Pipeline Exploration Robot	RohitKashyap
3	Task Learning Robotic Arm	Omkar N. Tulaskar AnirudhIyyer Rushikeshbaraskar AnujaKumthekar SagarBaviskar
4	6 DOF Bipedal Robot	NitishNayak VarunGokhale Sunny Gawas Rahul Kalwar
5	Biometric Voting Machine	MiteshKhedekar Omkar N. Tulaskar Harish Yadav NarendraWalawalkar BhushanJadhav
6	DMAS - Digital Manipulator of Analog Signals	ApoorvaKelkar RachitPradhan
7	Electrical Mortise Lock Controller	RachitPradhan RonakRedkar KunalSawant
8	e-yantra Project	Abhishek Bane Gokul Narayanan ShreyashJadhav Abhijith Nair
9	Smart Stick	AtharvRangnekar ShubhamWani SahilTasgavkar PavankumarSakhare
10	C.O.D.E.S - Colour Detection for Segregation	ShreyashJadhav Abhishek Bane Gokul Narayanan

-

Skill Enhancement Lecture

- SEL on "Artificial Intelligence" for final year students was delivered by Mr. Siddesh Wagale on 22nd August 2017.
- SEL on "Silicon crystal structure and Miller Indices" for final year students was delivered by Mr. Prafull Tele on 22nd July 2017.
- SEL on "Ideas for Mini Project" for third year students was conducted by Mr. V. M. Joshi on 24 July 2017.
- SEL on "Embedded Systems and IoT" for third year students was delivered by Mrs. Anita Diwakar on 24th October 2017.
- SEL on "Renewable Energy sources and and Solar PV" for second and final year students was delivered by Mr. Mehul Raval ,Solar Cell Process specialist, IMC, Mumbai on 3rd Feb 2018.
- SEL on "Robotics , its application and future scope" for third and final year students was delivered by Mr. Pratik Deshmukh, Director, Robo LAB technologies.

➢ **Faculty News**

Publications

1. Mrs. Asawari Dudwadkar, "Crack and Obstacle Surveillance Using Wireless Technology ",International Journal of Innovative Research in Science, Engineering Technology (IJIRSET) , ISSN(Online) : 2319-8753,Vol. 6, Issue 4, April 2017.
2. Mrs. Asawari Dudwadkar, "Implementation of Piezoelectric Sensors for Generation of Power.",International Journal of Innovative Researchin Science, Engineering Technology (IJIRSET), ISSN(Online) : 2319-8753,Vol. 6, Issue 4, April 2017.
3. Mrs. Asawari Dudwadkar,"Implementation of Automated Waste Segregator at Household Level", International Journal of Innovative Research in Science, Engineering Technology (IJIRSET),ISSN(Online) : 2319-8753 Vol. 6, Issue 4, April 2017.
4. Mrs. Sarika Kuhikar,"Automated horticultural system ", International Journal of Current Engineering And Scientific Research (IJCESR), ISSN 2394-0697, Vol.4, Issue 4, April 2017.
5. Mrs. Sarika Kuhikar, "PIC based protection of single phase induction motor" , International Advanced Research Journal in Science, Engineering and Technology (IARJSET), ISSN (Online) 2393-8021 , Vol.4, Issue 4, April 2017.
6. Mrs Gauri Sahoo, "Power factor correction using SCR and Microcontroller ", International Journal of Innovative Research in Science, Engineering Technology (IJIRSET),ISSN(Online) : 2319-8753, Vol.6, Issue 4, April 2017.
7. Mrs Rakhi Jadhav, " Microcontroller based data glove to aid speech impaired ", International Journal of Innovative Research in Computer and Communication Engineering, (IJIRCCE) , ISSN(Online): 2320-9801, Vol.5, Issue 3, March 2017.
8. Mrs Rakhi Jadhav, "Automated water distribution system and theft detection", Scientific Journal of Impact Factor (SJIF),ISSN : 2348-4470, Vol.4, Issue 4, April 2017.
9. Mrs. Dipti Karani,"Biometric Security based Vehicular Safety System "Indian Journal of Industrial Relations (IJIR), ISSN: 2454-1362, Vol3, Issue 4, April 2017

Courses conducted / attended

Courses Conducted By Faculty:

- Mr. P. Birajdar delivered a talk on **Adaptive filters / Signal Processing : An overview** on 27th march 2017 for all the faculties, under Research Forum, on behalf of the ETRX Department, VESIT.
- Mr. Abhay Kshirsagar conducted a session on**Wireless Body area Network : An application of WSN** on 14th July 2017 for all the faculties, under Research Forum, on behalf of the ETRX Department, VESIT.
- Mrs. Dipti Karani delivered a seminar **Getting Started with Sequel Simulator on 4th august 2017** for all the faculties, under Research Forum, on behalf of the ETRX Department, VESIT.

➢ Other activities
  o Department of Electronics has organized One week Faculty Development Program (FDP) from 4th to 11th Jan 2017

Mrs.Kavita Tewari

Head of department of Electronics Engineering