

**DEPARTMENT OF
ELECTRONICS AND TELECOMMUNICATION ENGINEERING
ANNUAL REPORT (2018-19)**

• **INTRODUCTION:**

Department of Electronics and Telecommunication Engineering has been established in year 2009. The Department offers a Four Year Bachelor of Engineering Degree Programme in Electronics and Telecommunication Engineering. It has well experienced and qualified faculty members as well as technical assistants. Total student strength of the department is 95. Department has well equipped classrooms with smart boards, audio/Video Facility, LCD Projector, OHP's, Multimedia PC, Internet facility.

• **LIST OF TOPPERS:**
SEM III : NOV-DEC 2018-19 EXAMINATION

<u>SR/NO.</u>	<u>NAME OF SUDENT</u>	<u>CGPA</u>
1.	Magdum Aishwarya Ashok	8.77
2.	Paldhe Harshada Shriram	8.42
3.	Mahadik Vedant Babaram	7.96
4.	Gharte Numan Shakil	7.96
5.	Kadam Devika Ravindra	7.88

SEM V : NOV-DEC 2018-19 EXAMINATION

<u>SR/NO.</u>	<u>NAME OF SUDENT</u>	<u>CGPA</u>
1.	Raval Vaishnavi Shivaji	8.22
2.	Chavan siddhi Vilas	7.93
3.	Indulkar Suyog Santosh	7.41
4.	Jadhav Gaurav Suresh	7.37
5.	Desai Mandar Udaysing	7.22

SEM VII : NOV-DEC 2018-19 EXAMINATION

<u>SR/NO.</u>	<u>NAME OF SUDENT</u>	<u>CGPA</u>
1.	Sutar Sonali Pandurang	7.63
2.	Satim Lavesh Ravindra	7.59
3.	Dixit Omkar Prakash	7.33
4.	Yadav Vivek Achchelal	7.19
5.	Parkar Ayyub Shaukat	7.19
6.	Kadav Mayuri Ajit	7.19

• **STUDENTS ACHIEVEMENTS:**

- 1) Mr. Vishal R. Bait of Third Year got first prize for Paper Presentation in SHODH 2019. He publish paper on 'LASER GUIDED MISSILE SYSTEM'.



- 2) Group from Second Year of Mr. Vedant Mahadik and Miss. Pooja devadiga got first prize in poster presentation in SHODH 2019.
- 3) Mr. Omkar Dandekar has successfully completed NPTEL course 'Internet of Things 12-week course JULY-OCT 2018 with 58% '.
- 4) Miss. Ankita Zore has successfully completed NPTEL course 'Internet of Things 12-week course JULY-OCT 2018 with 62% '.
- 5) Mr.Chaitanya Desai of BE ETXC scored 48 marks in Gate exam 2019.

• **SOME APPRECEABLE THINGS OF EXTC:**

- 1) EXTC Placements- With the great and continuous efforts of our TPO Mr. Magdum sir, and EXTC departmental TPO co ordinator , Prof. Avinash Wadhawanitotal 10 companies have visited and 24 students are placed in various companies.

- 2) With the major initiative of Prof. Iltapawar Tirupati ,the department of EXTC has successfully organized one seminar on the interested topic, ‘Career in Linux & Big Data’ for SE and TE by Mrs. Bhagyashri Bhat, Pune(BITS) on -11th February 2019.



- 3) With combine efforts of EXTC& Computer department,we have successfully organized one seminar on topic, ‘R-programming Language’ for SE and TE by Miss.Sayali Yewale & Mr. Ankit Mishra on -18th January 2019.
- 4) The department of EXTC has successfully organized one seminar on the topic, ‘ONE CHILD ONE LIGHT’ for SE and TE by Dr. Ranga on -27th March 2019. In this session he explain the importance of the solar energy.
- 5) One of the Bright student of EXTC department mast. Omkar Dandekar and Akash Tambe of civil deparyment shoot the video of college campus from the drone which is made by the student with the help of lab assistant Mr. Khemraj Deolkar.



- 6) One of the creative personality of EXTC department Mr. Khemraj Deolkar and Student Cocrdinator Mr. Omkar Dandekar were awarded to their work on drone in 44thDistrict

STAFF ACHIEVEMENT:

1. Prof. S. R. Khedekar completed PhD thesis entitled “Development of a new direction of arrival (DOA) estimation algorithm for smart antenna and its implementation on FPGA platform” submitted to Birla Institute of Technology Mesra on Feb 01, 2019.
2. Prof. S. R. Khedekar published Paper “Implementation of One Time Pad based encryption: Way to unbreakable encryption and Introduction of Pseudo OTP generation” in Journal of Engineering Technology, vol. 7, pp. 62-73, Oct. 2018.(SCI-E).

• SOME IMPMEMENTED PROJECTS IN EXTC:

1. GOOGLE VOICE ASSISTED MESSAGE-SCROLLING SYSTEM.

(T.E. EXTC Mr. Omkar Dandekar, under the guidance of Prof. S.C. Munghate)

Driving the world is what we do best & what makes us unique. Nowadays, most of the gadgets and machines are automated or IOT based. In markets, we see several number of message scrolling display which is used to display the brand name, shop name etc. But, those messages are not temporary and hence can't be changed without programming techniques. So, my project is a modification on such types of display which will be assisted by a human voice.

In this project, He connected and controlled my LED scrolling display with Wi-Fi based module assisted by my voice from my mobile phone's Google Assistant Application. It requires active internet facility. The system is encrypted with personal encryption key. Only intended user can change the message.

Motive of this project is to meet the requirements of the display users in market so that it would be convenient for them to control the scrolling display as per their voice command.



2. RASPBERRY PIE BASED SMART MIRROR SYSTEM

(T.E. EXTC Mr. Omkar Dandekar, under the guidance of Prof. S.C. Munghate)

A mirror having a small display and working on raspberry pie based 5 v minicomputers. With the help of artificial intelligence, we can display the current affairs on the screen. A computer screen embedded in mirror looks very futuristic. It looks like science fiction. A raspberry pie will maintain the data with the help of internet to give live updates. The raspberry Pie is connected to monitor via HDMI as well as it also has inbuilt Wi-Fi and Bluetooth interfaces so we can just swipe music and music and videos to mirror. A normal person cannot say that mirror having a screen or a mini computer. Advantage of smart mirror is we can save paper as well as trees from cuttings. Power consumption of mirror is very small. A smart mirror gives news updates, weather forecast, reminders, TO-DO list, or we can assign any sort of tools on the mirror screen. No matters how many tools on screen we can easily see ourselves in the mirror.



• **PULSE ACTIVITIES**

The Department Of EXTC is having students association 'PULSE' stands for 'Pioneer Union for lighting the science of Engg'. Prof. T.L . Iltapawar is working as PULSE coordinator for the academic year 2018-19. All the activities regarding workshops, fresher's party, Farewell, FDPs are taken PULSE. The three important posts of PULSE are, PULSE President –Mr. Omkar Dandekar, Vice- President- Miss.Samprit Gowd, Treasure- Mr.Shubhm Belose. For the successful conduction of all the following events, PULSE team worked very hard under the guidance of PULSE coordinator **Prof. T.L. Iltapawar**and HOD EXTC **Prof.S.R.Khedekar**.

PCB Design Workshop

The Department Of Electronics and telecommunication students association, 'PULSE' successfully organized workshop on **PCB Designing** on 25th August 2018 for SE and TE EXTC students. **The resource persons, Mr.P.A.Patil and Mr. K.Y.Deolkar are from our Department** with good experience in conducting such technical events. They took software and practical sessions for one day.



ARDUINO WORKSHOP



The
Department

Of Electronics and telecommunication students association, 'PULSE'successfully organized six days workshop on **ARDUINO** from 30th January to 5th January 2019 for SE and TE EXTC students. **The resource persons, Mr.Omkar Dandekar(T.E. EXTC) and Mr. Viraj Mohite(T.E. EXTC) both are students from ourDepartment** with good experience in conducting such technical events. They took software and practical sessions for a week. This is a workshop **“Arrange by students for students”**.

QUADCOPTER WORKSHOP

The department of EXTC has conducted one day workshop on 'Quadcopter & its Applications' on 16th of March 2019. This is quite helpful and great attraction for the students from surrounding diploma as well as B.Sc colleges. The resource persons, Mr.Omkar Dandekar(T.E. EXTC) students from our Department.



PULSE

GHARDA FOUNDATION'S
GHARDA INSTITUTE OF TECHNOLOGY

Fees Per Participant
Rs. 200/-



Department of
ELECTRONICS & TELECOMMUNICATION

Organizing

One Day Workshop on

'QUADCOPTER'

Date - 16 th March 2019

Venue - EXTC Dept.

GIT, Level

Staff Co-ordinator

Prof. S.C. Munghate - 9422152788

Mr. Khemraj Deulkar - 7083108719

Student Co-ordinators

Omkar Dandekar - 8898865508

Akash Tambe - 9765899019

SUMIT CREATIONS





PULSE committee organize two online session in which motivational speech displayed on youtube by pulse coordinator Prof. Iltapawar Tirupati. It include the great success story of Doctor, Homemaker, Mother, IPS Amrita Duhan sharing her inspirational journey and reflecting upon why age & responsibility should not be a barrier on your path to achieve your biggest ambitions in life. Amrita Duhan IPS, Associate professor to best all-round lady IPS probationer. In second session students get inform about Surabhi Gautam was born in an orthodox village of Madhya Pradesh, where girl child had unequal rights. Years later she walks into the same village and the entire village is celebrating her success.



EXTC FUTURE PLANS:

1. To form *IETE students chapter* in department:

The IETE has built up an impressive strength of student members all over the Country, at both Graduate (AM) and Diploma (SD) levels. Students chapters of IETE Centres generally take care of the academic / professional needs of these members.

The IETE can play a useful and stimulating role by,

- improving the standard of education;
- counselling the students in the emerging new opportunities;
- encouraging outside-the-classroom studies / practical work / seminars etc;
- better employment of the students on completion of their courses; substantial increase of IETE membership and its nationwide distributions.

2. To form a structured training modules of technical skills and soft skills for students which will be conducted in vacation period of students. These training modules will be with respect to recent trends and requirements of industry. These training modules will help students to become employable in all respect.

3. To form an online platform wherein alumni of the department can interact with the students of department, and share their knowledge, regarding recent trends and expectations of industry from future engineers.

4. To form an Entrepreneurship Development Cell, which will help students to become an entrepreneur, by organizing expert talks and by providing required infrastructural facilities, etc.

5. To share our technical expertise with nearby all diploma colleges & Junior Colleges as a corporate social responsibility, by organizing workshops or expert talks, through Technology Revolution Program.