ACADEMIC BULLETIN

July 2018- June 2019

Department of Electronics & Telecommunication Engineering

Prepared By:

Ms. Archana Chaudhari   **Dr. Amit A. Deshmukh**

(Assistant Professor, EXTC, DJSCE)   **(Professor & Head EXTC, DJSCE)**

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Prepared By:

Ms. Archana Chaudhari   **Dr. Amit A. Deshmukh**

(Assistant Professor, EXTC, DJSCE)   **(Professor & Head EXTC, DJSCE)**

ACADEMIC BULLETIN

Period: 1st July 2018 – 31st December 2018

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1. ABOUT DEPARTMENT

1.1 Vision

To be a world class Institution for education, training and research in engineering, inculcating values and skills for sustainable development of the society.

1.2 Mission

- To provide competent faculty and an interactive learning environment along with world class infrastructure for nurturing professionalism & entrepreneurship in Engineers.
- To foster technical competence, research aptitude and environmental awareness amongst aspiring technocrats to develop sustainable engineering solutions.
- To provide a forum for active interaction between academia & industry, leading to continuous improvement in engineering education.

1.3 Vision of the Department

To develop technically competent and socially responsible Electronics and Telecommunication engineers capable of fulfilling expectations at indigenous and global levels.

1.4 Mission of the Department

- To provide a conducive educational environment for students by providing good infrastructural facilities, knowledge base and excellent faculty support.
- To provide a strong foundation of core knowledge and exposure to research culture.
- To motivate learners to acquire adequate professional and soft skills, to develop personality traits and eventually transform them as life-long learners.
- To strive and achieve practical exposure by maintaining good rapport with industry and professional network.

1.5 Program Specific Outcomes (PSOs)

- To develop knowledge in the domain of signal analysis and processing and provide a foundation to numerous other courses that deals with signal processing applications.

- To develop basic and applied knowledge of the architecture and assembly language programming for microprocessor/microcontroller based systems, along with the peripheral interfacing.

- To provide an in-depth understanding of electromagnetics, transmission lines and antenna concepts along with microwave devices used for RF and microwave applications.

- To develop knowledge of the fundamental techniques related to generation, transmission and reception in communication systems for a wide range of wired and wireless applications along with revolutionary technology developments.

1.6 Program Educational Objectives (PEOs)

- **PEO1:** To prepare learners for graduate studies by providing strong foundation of basic sciences, computer programing and thus, develop analytical aptitude, and problem solving abilities.

- **PEO2:** To develop a fundamental understanding of electronic & integrated circuits, communication systems and allied disciplines.

- **PEO3:** To develop core competency and expertise in the diverse areas of communication covering Signal processing, Electromagnetic Engineering, Embedded Systems, Computer Communication and Advanced Wireless Networks domains.

- **PEO4:** To inculcate competencies and aptitude in extending acquired technical knowledge to solve real life issues with high professional and ethical standards.

- **PEO5:** To develop proficiency in soft skills and deliver adequate personality traits to enable the pass outs to pursue higher education, to find competitive employment opportunities and/or pursue entrepreneurial ventures.

1.7 Department Information

- Started in the year 1999 with the intake of 30 and which was increased to 60 in the subsequent year.

- The intake was increased to 120 in the Academic Year 2010 – 11.

- In the Academic Year 2011 – 12, Department has started M.E. Program in Electronics & telecommunication with an intake of 18 students.

- For the first time Department got NBA accreditation for two years from January 2013. In second Outcome based evaluation, Department got NBA accreditation for three years from July 2017.

- The Department started with Ph.D. program in Academic Year 2015 – 16 with an intake of 10 students.

- The department is having highly qualified, experienced and dedicated faculties and supporting staff.

- Well-equipped labs and fully air conditioned classrooms with projectors

2. ADMINISTRATION

IETE COMMITTEE

Dr. Amit Deshmukh   Prof. Anuja Odhekar

PROJECT COORDINATOR

Dr. Amit Deshmukh   Prof. Ameya Kadam

DEPARTMENTAL LIBRARY

Dr. Amit Deshmukh   Prof. Archana Chaudhari

ALUMNI COMMITTEE

Prof Shivani Bhattacharjee   Prof. Poonam Kadam

ADMISSION COMMITTEE

Prof. V. V. Kelkar   Prof. Ameya Kadam

NBA CORE COMMITTEE

Dr. Amit Deshmukh	Prof. V. V. Kelkar (PC/NC)	Prof. Ameya Kadam
Prof. Poonam Kadam	Prof S. B. Deshmukh	Prof. Venkata A. P. Chavali

ANTIRAGGING CELL

Prof. T. D. Biradar   Prof. V. V. Kelkar

EXAM COMMITTEE	**NSS Program Coordinator**
Prof. Venkata A. P. Chavali	Prof. Rahul Taware
ANTIRAGGING SQUAD	**DJSCE NEN**
Dr. Amit Deshmukh	Dr S. H. Karamchandani
SPORTS COMMITTEE	**TECHNICAL CHAIR PERSON**
Prof. Ameya Kadam	Prof. T. D. Biradar
TIME-TABLE COMMITTEE	**NPTEL COORDINATOR**
Prof. Poonam Kadam	Prof. V. V. Kelkar
PLACEMENT COORDINATOR	**WOMEN DEVELOPMENT CELL**
Prof. Aarti Ambekar	Prof. V. V. Kelkar

3. IETE- SF

The Electronics and Telecommunication Department of Dwarkadas. J. Sanghvi College of Engineering presents Institution of Electronics and Telecommunication Engineers- Student Forum (**IETE-SF**). The student chapter with a working force committee of 22, consisting of **second year** and third **year students**, hosted a few of the most quintessential and technically challenging events. A membership drive was conducted at the start of the year with an overwhelming response. (www.djsceietesf.com)

IETE Organizing Committee Structure

IETE SF Branch Counsellor :- Prof. Anuja Odhekar

Chairman	Advait Verma
Co-Chairperson	Maitrya Damani, Dishant Shah
Vice-Chairman	Mihir Vithalani, Shane Fernandes
Secretary	Prerana Patel
Jt.Secretary	Mit Shah
Treasurer	Leesha Ramrakhiani

Head Of Departments :

Editorial Head	Niti Doshi
Publicity	Anish Shetty
Marketing	Kevil Shah
Technical	Muddassir Shaikh
Infotech	Shane Fernandes
Creatives	Heer Desai
Events	Shawari Rane, Harshit Mody
Logistics and Inventory	Chirag Thakkar

3.1 Value Added Program

Book Bank

Book Bank is an initiative made by IETE that makes **reference books** available to students at **10% of the original cost**. It improved the core competency and to strengthen the teaching ability. These books are referred by the faculty members and hence it makes the studying process efficient and helps to increase the student's technological knowledge about the subject. It also helps to build a foundation of the concepts that could enhance the practical skills required in the future. It gets updated every year and has several books to offer currently.

Component Bank

DJSCE IETE-SF proudly introduces the **Component Bank Facility,** through which students can benefit by borrowing components they require at a lower price and return them once their job is done. The worry of buying expensive components and then thinking about what to do with them once the project is finished, is eliminated.

4. DEPARTMENT ACTIVITIES UNDER IETE-SF

4.1 Industrial visit to Doordarshan Kendra

On 27th of September, 2018, a batch of 30 students from the E.X.T.C visited the offices of Doordarshan Kendra as an Industrial Visit. Students were accompanied by two of our faculty members- Prof. T.D Biradar and Prof. Rahul Tavare. This visit was arranged in order to give students a practical knowledge about how telecommunication is used in broadcasting industry.

4.2 Lecture on DSP Processors

As a student of Electronics and Telecommunication Engineering, one can play with signals which are analog or digital in nature. A lecture on 'Architecture of advanced DSP processors and implementation of a few final year projects in MATLAB and Simulink' was conducted on 21st of September 2018 from 3:30 to 5:30 P.M. by Mrs. Ranjushree Pal.
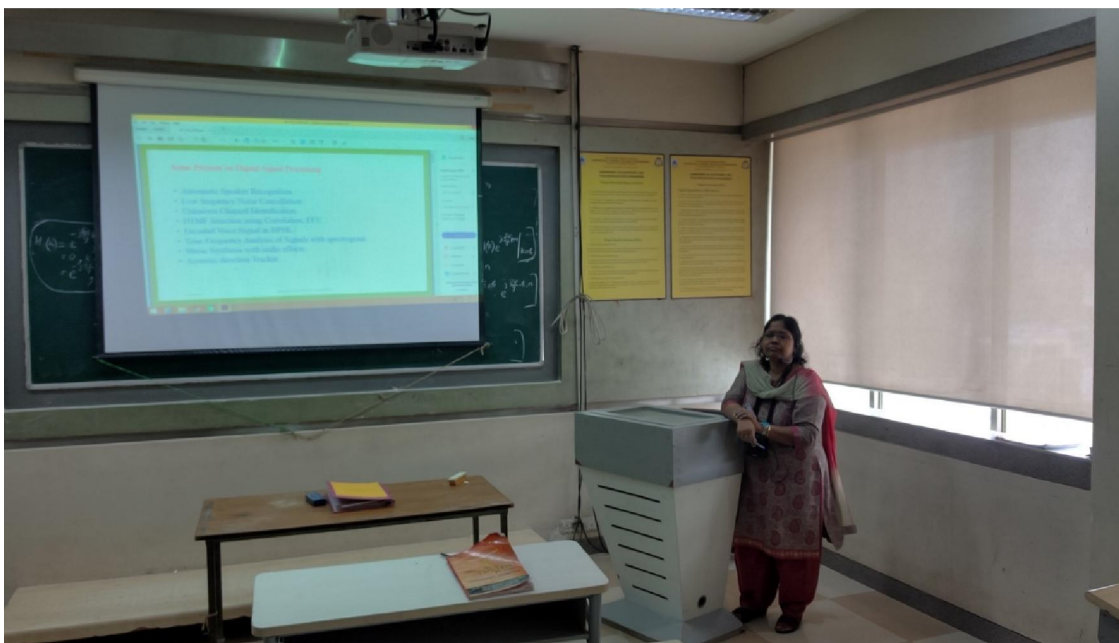
4.3 Video Processing using MATLAB

A talk by Prof. Gargi Phadke was held in the Seminar Hall of DJSCE on the 30th August 2018 for the BE SEM VIII students in the areas of Video Processing. Over 120 participants attended the lecture. An Avishkar awardee she enthralled the students with her knowledge of different applications and the social benefits of signal processing.

Video based tracking for surveillance was her main forte and at least five to six different algorithms were demonstrated in the course of the talk. The speaker also provided links to some freely available databases which the students could use for video processing applications.

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4.4 Guest Lecture on Architecture of embedded system and advance debugging tools for troubleshooting of embedded system

A guest lecture on Architecture of embedded system and debugging tools for troubleshooting of embedded system by Mr. Shirish Joshi, Director ADM was organised for the third year EXTC students on 26th September 2018 at 10:30am to 1.00pm.

He explained about what microcontrollers were, what the Embedded Systems Industry expects from engineers, and other related things. He explained how CAN protocol is extremely important for the automobile industry, and how PIC and SAM controllers are the standards in the industry. He explained JTAG (Joint Tag Address Group) and its applications in debugging. He commented on how EXTC and electronics engineers can easily design a RTOS (Real Time Operating System) while it is very difficult for CS/IT engineers to do the same. He motivated the students to take the advantage of the same and increase their knowledge related to RTOS architecture designing.
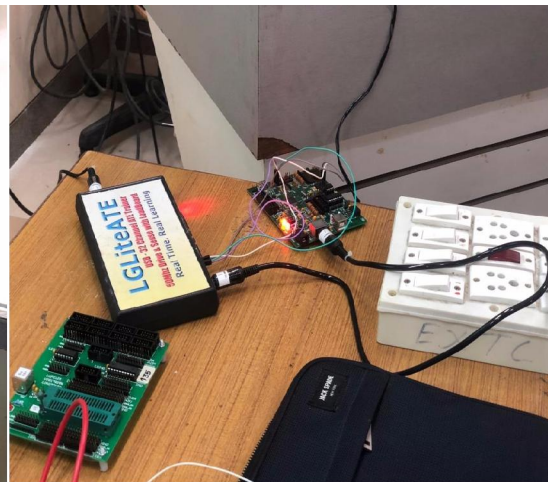
4.5 Guest lecture on Digital Communication

The Guest lecture was arranged for TE students on the subject "Digital Communication". Dr. Mani Roja from Thadomal Shahani Engineering College, Bandra (W) had delivered the lecture from 9:30-11:30 on 03/10/2018 where she had discussed applications of probability theory in Digital Communication.

4.6 Guest lecture on Advancement of RADAR system and its potential applications

Guest lecture on Advancement of RADAR system and its potential applications by Mr. Sandeepak S. Kakatkar (Scientist F, SAMEER, Mumbai) was organised on 6th October 2018 at 10:30am to 12:30 pm. Radar technology has always been an enticing and ever expanding field. It has been the work and life of Mr. S.S. Kakatkar, guest lecturer for the day. The seminar was broadly divided into three parts. An introduction on radar technology, followed by the basics of RADAR and the emerging trends of this technology concluded the seminar.
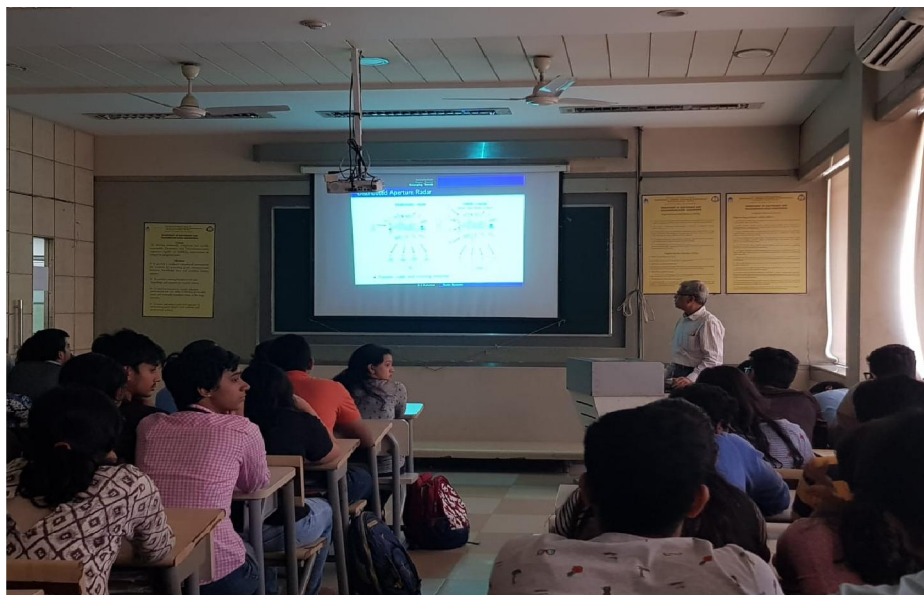
4.7 Workshop on Introduction to Signal, Image Processing using MATLAB

A workshop on 'Introduction of Signal and Image Processing using MATLAB' was conducted on 5th October 2018 from 10:30AM to 2:30PM in the RF and Antenna laboratory by Dr. Gargi S. Phadke, Department of Instrumentation Engineering, RAIT, Navi Mumbai. In her lecture she explained various aspects of signal and image processing and also the importance of MATLAB in signal and image processing.

4.8 Industrial visit to SAMEER, IIT Campus, Mumbai

The TE and BE students of EXTC department visited SAMEER Mumbai on 6th October 2018. Students were accompanied by Prof. Anuja Odhekar and Prof. Ameya Kadam

4.9 Department Advisory Board meeting

Department Advisory Board meeting was held on 13th October 2018. Following external persons were part of the meeting.

Sr. No.	Name	Details
1	Dr. Deepak Jaiswal	Professor, SFIT college, Mumbai
2	Dr. Sunil	TCS
3	Mr. Sumit Ranka	Alumni 2012 batch
4	Mr. Neeraj Gangarde	Alumni 2005 batch
5	Advait Varma	Student 3rd year EXTC
6	Prerana Patel	Student 3rd year EXTC

5. ACHIEVEMENTS

5.1 Faculty Publications- Conferences / Journals

Sr.No.	Name of Faculty	Publications
1	Dr. Amit Deshmukh	[1] Ameya Kadam, Venkata A. P. C., Aarti G. Ambekar and Amit A. Deshmukh, "Planar inverted 60º cone antenna for UWB and notch characteristics response", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[2] Venkata A. P. C., Aarti G. Ambekar, Ameya Kadam and Amit A. Deshmukh, "Wideband MSA with C-shaped Parasitic Patches", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[3] Aarti G. Ambekar, Venkata A. P. C., Ameya Kadam and Amit A. Deshmukh, "60⁰ Sectoral Microstrip Antenna for Dual Polarized Multiband and Wideband Response", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[4] Anuja Odhekar, Poonam Kadam and Amit A. Deshmukh, "Proximity Feed Broadband Circularly Polarized Circular Sectoral Microstrip Antenna", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[5] Poonam Kadam, Anuja Odhekar and Amit A. Deshmukh, "Air suspended Multiband E- shaped Microstrip Antenna" Accepted for publication in ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[6] Amit A. Deshmukh, Chinmay Kudoo, Mansi Shah and Vivek Chaudhary, "Novel Design of Phi-shape Microstrip Antenna For Circular Polarized Response",

		Proceedings of ICACC – 2018, 12th – 15th September 2018, Kochi, India
	[7]	Amit A. Deshmukh, Shefali Pawar, Amita Mhatre and Vivek Chaudhary, "Design of Compact F-shape Microstrip Antenna For Dual Polarized Broadband Response", Proceedings of ICACC – 2018, 12th – 15th September 2018, Kochi, India
	[8]	Amit A. Deshmukh, Vivek Chaudhary, Mansi Shah and Shefali Pawar, "Wide band Designs of Equilateral Triangular Microstrip Antenna with Parasitic Sectoral Patches", Proceedings of ICACC – 2018, 12th – 15th September 2018, Kochi, India
	[9]	Amit A. Deshmukh, Mansi Shah, Chinmay Kudoo and Amita Mhatre, "Variations of Wide Band E-shape And U-slot Cut Rectangular Microstrip Antennas", Proceedings of ICACC – 2018, 12th – 15th September 2018, Kochi, India
	[10]	Amit A. Deshmukh, Amita Mhatre, Chinmay Kudoo and Shefali Pawar, "E-shape Microstrip Antenna Backed by Pairs of Slots cut Ground plane for Wideband Response", Proceedings of ICACC – 2018, 12th – 15th September 2018, Kochi, India
	[11]	Aarti G. Ambekar, Venkata A P Chavali, Amit A. Deshmukh and K. P. Ray, "Circular Microstrip Antenna Loaded with Pair of Arc shape slots For Dual Polarized Wide band Response", Accepted for publication in INDICON 2018, 16th – 18th December 2018, Coimbatore, India (IEEE digital library).
	[12]	Venkata A P Chavali, Aarti G. Ambekar, Amit A. Deshmukh and K. P. Ray, "Analysis And Design Of Gap-Coupled 90^0 Sectoral Microstrip Antenna", Accepted for publication in INDICON 2018, 16th – 18th

		December 2018, Coimbatore, India (IEEE digital library).
		[13] Anuja A Odhekar, Poonam Kadam, Sanjay Deshmukh and Amit A. Deshmukh, "Novel Design of Square Microstrip Antenna With Circular slots For Circular Polarization", Accepted for publication in INDICON 2018, 16th – 18th December 2018, Coimbatore, India (IEEE digital library).
		[14] A. Pattanayak, G. Rana, S. P. Duttagupta, P. S. Gandhi, A. A. Deshmukh, "Design of a 5 GHz Reflectarray with Reduced Size Unit Cell and Extremely Low Phase Sensitivity", Radioengineering Journal, vol. 27, no. 3, September 2018, pp. 718 – 723.
		[15] Amit A. Deshmukh and Priyal Zaveri, "Sequentially Rotated Gap-coupled Variations of Plus shape Microstrip Antennas for Dual Band Circular Polarized Response", International Journal of RF and Microwave Computer-Aided Engineering, August 2018, Wiley Publication. (https://doi.org/10.1002/mmce.21431).
		[16] Poonam A. Kadam and Amit A. Deshmukh, "Multiband Microstrip Antenna using Modified Pi-shape slot on Ground plane", Accepted for publication in International Journal of Wireless and Microwave Technology, MES Press
2	Prof. S. B. Deshmukh	[1] Anuja A Odhekar, Poonam Kadam, Sanjay Deshmukh and Amit A. Deshmukh, "Novel Design of Square Microstrip Antenna With Circular slots For Circular Polarization", Accepted for publication in INDICON 2018, 16th – 18th December 2018, Coimbatore, India (IEEE digital library).
3	Prof. Poonam Kadam	[1] Anuja Odhekar, Poonam Kadam and Amit A. Deshmukh, "Proximity Feed Broadband Circularly Polarized Circular

		Sectoral Microstrip Antenna", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[2] Poonam Kadam, Anuja Odhekar and Amit A. Deshmukh, "Air suspended Multiband E- shaped Microstrip Antenna" Accepted for publication in ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[3] Anuja A Odhekar, Poonam Kadam, Sanjay Deshmukh and Amit A. Deshmukh, "Novel Design of Square Microstrip Antenna With Circular slots For Circular Polarization", Accepted for publication in INDICON 2018, 16th – 18th December 2018, Coimbatore, India (IEEE digital library).
		[4] Poonam A. Kadam and Amit A. Deshmukh, "Multiband Microstrip Antenna using Modified Pi-shape slot on Ground plane", Accepted for publication in International Journal of Wireless and Microwave Technology, MES Press
4	Prof. Anuja Odhekar	[1] Anuja Odhekar, Poonam Kadam and Amit A. Deshmukh, "Proximity Feed Broadband Circularly Polarized Circular Sectoral Microstrip Antenna", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[2] Poonam Kadam, Anuja Odhekar and Amit A. Deshmukh, "Air suspended Multiband E- shaped Microstrip Antenna" Accepted for publication in ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[3] Anuja A Odhekar, Poonam Kadam, Sanjay Deshmukh and Amit A. Deshmukh, "Novel Design of Square Microstrip Antenna With Circular slots For Circular Polarization", Accepted for publication in INDICON

		2018, 16th – 18th December 2018, Coimbatore, India (IEEE digital library).
5	Prof. Ameya Kadam	[1] Ameya Kadam, Venkata A. P. C., Aarti G. Ambekar and Amit A. Deshmukh, "Planar inverted 60° cone antenna for UWB and notch characteristics response", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[2] Venkata A. P. C., Aarti G. Ambekar, Ameya Kadam and Amit A. Deshmukh, "Wideband MSA with C-shaped Parasitic Patches", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[3] Aarti G. Ambekar, Venkata A. P. C., Ameya Kadam and Amit A. Deshmukh, "60^0 Sectoral Microstrip Antenna for Dual Polarized Multiband and Wideband Response", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
6	Prof. Venkata APC	[1] Ameya Kadam, Venkata A. P. C., Aarti G. Ambekar and Amit A. Deshmukh, "Planar inverted 60° cone antenna for UWB and notch characteristics response", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[2] Venkata A. P. C., Aarti G. Ambekar, Ameya Kadam and Amit A. Deshmukh, "Wideband MSA with C-shaped Parasitic Patches", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[3] Aarti G. Ambekar, Venkata A. P. C., Ameya Kadam and Amit A. Deshmukh, "60^0 Sectoral Microstrip Antenna for Dual Polarized Multiband and Wideband Response", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)

		[4]	Aarti G. Ambekar, Venkata A P Chavali, Amit A. Deshmukh and K. P. Ray, "Circular Microstrip Antenna Loaded with Pair of Arc shape slots For Dual Polarized Wide band Response", Accepted for publication in INDICON 2018, 16th – 18th December 2018, Coimbatore, India (IEEE digital library).
		[5]	Venkata A P Chavali, Aarti G. Ambekar, Amit A. Deshmukh and K. P. Ray, "Analysis And Design Of Gap-Coupled 90^0 Sectoral Microstrip Antenna", Accepted for publication in INDICON 2018, 16th – 18th December 2018, Coimbatore, India (IEEE digital library).
7	Prof. Mrunalini Pimpale	[1]	Rohan Vaidya, Darshan Trivedi, Sagar Satra and Mrunalini Ingle, "Handwritten Character Recognition Using Deep-Learning", Proceedings of the 2nd International Conference on Inventive Communication and Computational Technologies (ICICCT2018), 20-21st April2018, Coimbatore, India (IEEE Digital Library)
8	Prof. Arati Ambekar	[1]	Ameya Kadam, Venkata A. P. C., Aarti G. Ambekar and Amit A. Deshmukh, "Planar inverted 60º cone antenna for UWB and notch characteristics response", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[2]	Venkata A. P. C., Aarti G. Ambekar, Ameya Kadam and Amit A. Deshmukh, "Wideband MSA with C-shaped Parasitic Patches", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)
		[3]	Aarti G. Ambekar, Venkata A. P. C., Ameya Kadam and Amit A. Deshmukh, "60^0 Sectoral Microstrip Antenna for Dual Polarized Multiband and Wideband Response", Proceedings of ICCUBEA – 2018, 16th – 18th August 2018, Pune, India (IEEE digital library)

| | | [4] Aarti G. Ambekar, Venkata A P Chavali, Amit A. Deshmukh and K. P. Ray, "Circular Microstrip Antenna Loaded with Pair of Arc shape slots For Dual Polarized Wide band Response", Accepted for publication in INDICON 2018, 16th – 18th December 2018, Coimbatore, India (IEEE digital library). |
| | | [5] Venkata A P Chavali, Aarti G. Ambekar, Amit A. Deshmukh and K. P. Ray, "Analysis And Design Of Gap-Coupled 90^0 Sectoral Microstrip Antenna", Accepted for publication in INDICON 2018, 16th – 18th December 2018, Coimbatore, India (IEEE digital library). |

5.2 Interaction of faculties with outside world

Sr. No.	Name of Faculty	Description
1	Dr. Amit A. Deshmukh	1. Subject Expert APS-2 process of Ph.D. at Thakur College of Engg. & Tech. on 22/10/2018, Monday 2. External Examiner, Presynopsis presentation of Ph.D. at UMIT, SNDT Women's University on 31/08/2018 3. To Conduct External Academic Audit at K J Somaiya college of Engg, Sion on 14/07/2018 4. Expert speaker for STTP at Anjuman-I-Islam's Kalsekar Technical Campus, New Panvel on July 2 – 7, 2018
2	Prof. Tanaji Biradar	1. Attended session on 'Sequel App' by Prof. M. B. Patil, IIT-B on 27th July, 2018 organised by SPIT, Mumbai 2. Conducted guest lecture on 'Electronic Devices and Circuits' at SPIT, Mumbai on 26th October 2018.
3	Prof. Vishakha Kelkar	1. Participated in the AICTE-ISTE approved one week STTP on "Insight of Machine Learning and Deep Learning" organised by department of computer engineering, DJSCE from 2nd to 6th July 2018.
4	Prof. S. B. Deshmukh	1. Orientation program for "Microprocessor and Peripherals Interfacing" sem V/EXTC at A P Shah Inst. Of Tech. on 18/07/2018 2. One week STTP on "RF antenna: Design & Analysis" at K J Somaiya college of Engg, Vidya Vihar on June 18 – 23, 2018
5	Prof. Rahul Taware	1. Planning and Projection Session of NSS at Rizvi College, Bandra (W) on 24/07/2018
6	Dr. Sunil H. Karamchandani	1. Judge in the TPP event on Abhiyantriki 2018 at K J Somaiya college of Engg, Vidya Vihar on 06/10/2018

		2. Orientation program for "Open Source tech. for commu. Lab" sem V/EXTC at Rizvi College of Engg. , Bandra (W) on 13/07/2018
		3. appointed as part of the Technical Program Committee for the Int'l Conference on Discrete Mathematics and Computer Mathematics, Chongqing, China during **Sept 15-17,2018**
7	Venkata A P C	1. One week STTP on "RF antenna: Design & Analysis" at K J Somaiya college of Engg, Vidya Vihar on June 18 – 23, 2018
8	Prof. Archana Chaudhari	1. Participated in the AICTE-ISTE approved one week STTP on "Insight of Machine Learning and Deep Learning" organised by department of computer engineering, DJSCE from 2nd to 6th July 2018.
9	Prof. Yukti Bandi	1. Participated in the AICTE-ISTE approved one week STTP on "Insight of Machine Learning and Deep Learning" organised by department of computer engineering, DJSCE from 2nd to 6th July 2018. 2. Orientation program for "Digital Communication" sem V/EXTC at Vidyalankar Inst. Of Tech on 6/07/2018
10	Prof. Revathi A S	1. Participated in the AICTE-ISTE approved one week STTP on "Insight of Machine Learning and Deep Learning" organised by department of computer engineering, DJSCE from 2nd to 6th July 2018.
11	Arati Ambekar	1. One week STTP on "RF antenna: Design & Analysis" at K J Somaiya college of Engg, Vidya Vihar on June 18 – 23, 2018

5.3 Faculty Awards

Sr. No.	Name of Faculty	Event
1	Prof Poonam Kadam	received best paper award for her paper "Air suspended Multiband E shaped microstrip Antenna" at IEEE 4th international conference on Computing , communication, control and automation ICCUBEA 2018 organised by Pimpri Chinchwad college of Engineering on 16-18 August 2018
2	Prof. Anuja Odhekar	received best paper award for her paper "Proximity feed broadband circulatory polarized circular sectoral microstrip antenna" at IEEE 4th international conference on Computing , communication, control and automation ICCUBEA 2018 organised by Pimpri Chinchwad college of Engineering on 16-18 August 2018
3	Prof Ameya Kadam	1. received best paper award for his paper "Planar inverted 60 degree cone antenna for UWB and notch characteristics" at IEEE 4th international conference on Computing , communication, control and automation ICCUBEA 2018 organised by Pimpri Chinchwad college of Engineering on 16-18 August 2018 2. Completed 12 week course on **Microwave Theory and Techniques** on NPTEL conducted by Prof. Girish Kumar, IIT Bombay having 3 credits with **Gold certificate as a Topper** from July-October 2018

5.4 Students Achievements

Sr. No.	Name of Student	Event
1	Maitriya Damani	Internship at Reliance Jio Infocom Ltd during 07/06/18 – 06/07/18
2	Agrawal Yash	Admission into the MS By Research in Computer Science &Engineering at IIIT- Hyderabad.
3	Formula Racing Team	Event Details Students from the EXTC Department participated in the prestigious Formula Student Austria (Top 30 teams of the World) competition in the month of August 2018. 1st **Place** in Cost Event 16th **Place** in Business Plan Event 17th **Place** in Design Event **1st Overall** in All Indian Teams **1st Overall** In Asian Teams
4	Manali Bhat	Successfully completed NPTEL course on Programming, Data Structures and Algorithms using Python
5	Viren Contractor	Elite certificate for completing NPTEL course on Programming, Data Structures and Algorithms using Python
6	Nigam Shailesh Shah	Elite certificate for completing NPTEL course on Programming, Data Structures and Algorithms using Python
7	Preksha Sanghavi	Elite certificate for completing NPTEL course on Enhancing Soft Skills and Personality
8	Dipak Chandak	Successfully completed NPTEL course on Programming, Data Structures and Algorithms using Python

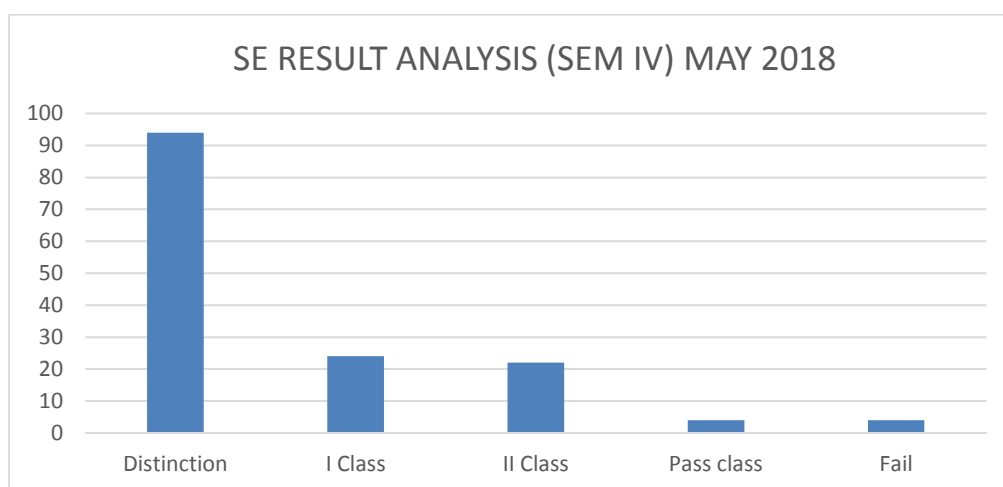| 9	Aditya Baranwal	Successfully completed NPTEL course on Programming, Data Structures and Algorithms using Python
10	Pratik	Elite certificate for completing NPTEL course on Effective engineering Teaching in Practice
11	Viraj Savaliya	Elite certificate for completing NPTEL course on Programming, Data Structures and Algorithms using Python
12	Sarfaraj	Elite certificate for completing NPTEL course on Microprocessors And Microcontrollers
13	Viren Baria	Elite certificate for completing NPTEL course on Programming, Data Structures and Algorithms using Python
14	Joel Joseph Joy	Elite certificate for completing NPTEL course on Programming, Data Structures and Algorithms using Python
15	Abhishek	Elite certificate for completing NPTEL course on Programming, Data Structures and Algorithms using C
16	Wallace	Elite certificate for completing NPTEL course on Introduction to Machine Learning
17	Ankit Sawant	Elite certificate for completing NPTEL course on Introduction to Modern Application Development
18	Ajinkeya Chitrey	Elite certificate for completing NPTEL course on Problem Solving through Programming in C
19	Harsh Arvind Raval	Elite certificate for completing NPTEL course on Programming, Data Structures and Algorithms using Python

6. Result Analysis

Class:- SE

No. of students: 148

	Distinction	I Class	II Class	Pass class	Fail
SE Result Analysis(SEM IV) MAY 2018	94	24	22	4	4

Subject wise Result Analysis

Subject	Appeared	Pass	Fail
Applied Mathematics IV	148	147	1
Electronics Devices & Circuits	148	147	1
Linear Integrated Circuits II	148	147	1
Signals & Systems	148	145	3
Principles of Comm. Engg.	148	147	1

SE RESULT ANALYSIS (SEM IV) MAY 2018

Department of Electronics & Telecommunication Engineering   Academic Year 2018-19

Name	Rank	GPA
Chitrey Ajinkeya	First	10
Deo Rohan	First	10
Kamath Deepti	First	10
Lobo Crispin	First	10
Magar Nikita	First	10
Mahabal Hrishikesh	First	10
Shruti Ravichandran	First	10
Advait Varma	First	10
Yatrik Mehta	Second	9.92
Yatharth Nathani	Second	9.92
Sharvari Rane	Second	9.92
Pradeepti Gupta	Third	9.84
Ashutosh Khetan	Third	9.84
Mayur Kulkarni	Third	9.84
Parth Mehta	Third	9.84
Janaki Shah	Third	9.84
Abhishek Shinde	Third	9.84
Ritika Gore	Third	9.84

Department of Electronics & Telecommunication Engineering   Academic Year 2018-19

Class: TE

Total No. of students = 153

	Distinction	First class	Second class	Pass class	Fail
TE Result Analysis(SEM VI) MAY 2018	27	64	27	0	26

Subjectwise Result analysis

Subject	Appeared	Pass	Fail
Digital Communication	148	148	0
Discrete Time Signal Processing	152	148	4
Computer Communication & Networks	147	144	3
Television Engineering	147	147	0
Operating Systems	147	147	0
VLSI Design	150	148	2
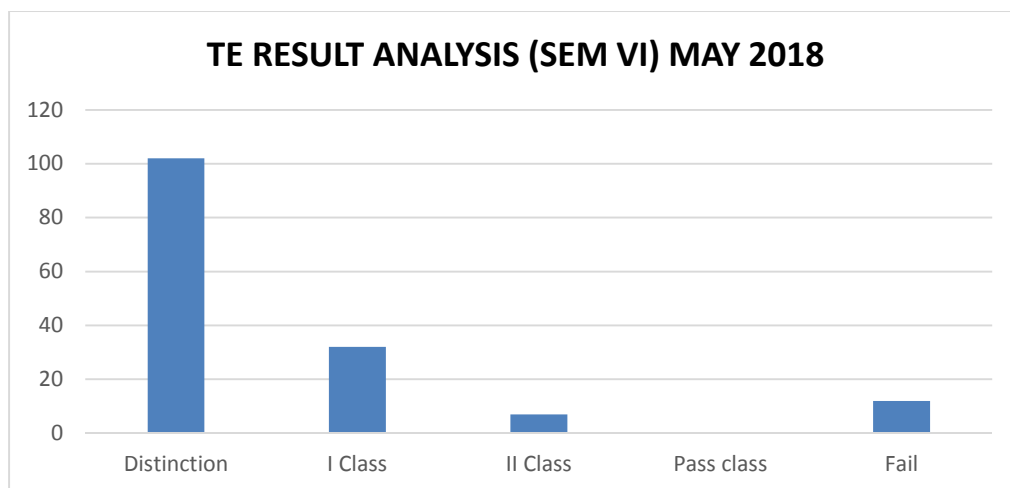
TE RESULT ANALYSIS (SEM VI) MAY 2018

Name	Rank	GPA
Payal Panchal	First	10
Shah Nigam	First	10
Anagha Narayan	Second	9.86
Lizna Bandeali	Second	9.86
Pratik Sankhe	Second	9.86
Prachi shah	Second	9.86
Darji Drashti	Third	9.71

Class: BE

Total No. of students = 141

	Distinction	First class	Second class	Pass class
BE Result Analysis(SEM VIII)-MAY 2017	71	50	13	4

Subjectwise Result Analysis

Subject	Appeared	pass	fail
Wireless Networks	141	141	0
Satellite Communication and Networks	141	140	1
Internet and Voice Communication	141	140	1
Speech Processing	141	139	2
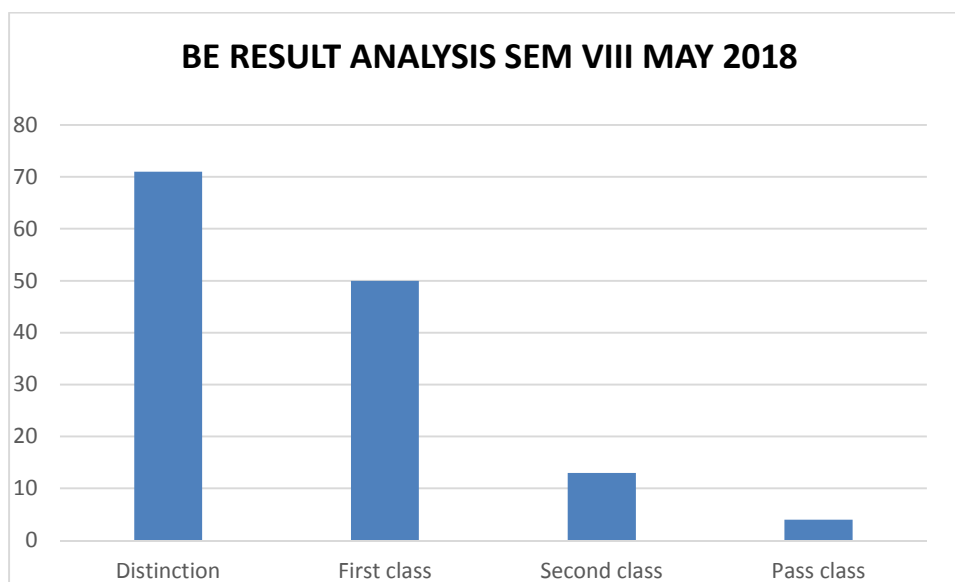
BE RESULT ANALYSIS SEM VIII MAY 2018

Department of Electronics & Telecommunication Engineering   Academic Year 2018-19

Name	Rank	GPA
Gandhi Prachi	First	9.64
Parmar Yash	Second	9.32
Chavda Ankit	Third	9.29
Zala Harshita	fourth	9.18

7. Placement Data

Total no. of Students placed = 90

Sr. No.	Company Name	No. of Students Placed	Salary Per Annum(LPA)
1	JP Morgan Chess (Super Dream)	1	11
2	GEP (Super dream)	4	8
3	Carwale (Super dream)	1	7.5
4	Quantiphi (Super dream)	10	6.5
5	Think Analytics(Super dream)	2	6.5
6	Tresvista (Dream)	2	6.07
7	GE (Core and dream)	1	6
8	OFSS (Superdream)	1	6
9	Bill Desk(superdream)	5	6
10	Edelweiss (Super dream)	2	5.5
11	Cartesian	2	5
12	Amdocs (Dream)	1	4.75
13	Deloite (Dream)	5	4.4
14	ENY (Dream)	5	4.25
15	LTI	4	4.18
16	Endurance	1	4
17	Media.Net	1	3.9
17	Infosys	27	3.6
18	TCS	13	3.5
19	Tata Communication	2	3.4
Minimum CTC in LPA: 3.4 LPA		**Maximum CTC in LPA : 11.0 LPA**	

ACADEMIC BULLETIN

Jan 2019- June 2019

Department of Electronics & Telecommunication Engineering

Prepared By:

Ms. Archana Chaudhari   **Dr. Amit A. Deshmukh**

(Assistant Professor, EXTC, DJSCE)   **(Professor & Head EXTC, DJSCE)**

ACADEMIC BULLETIN

Period: 1ˢᵗ Jan 2019 – 30ᵗʰ June 2019

1. ABOUT DEPARTMENT

1.1 Vision

To be a world class Institution for education, training and research in engineering, inculcating values and skills for sustainable development of the society.

1.2 Mission

- To provide competent faculty and an interactive learning environment along with world class infrastructure for nurturing professionalism & entrepreneurship in Engineers.
- To foster technical competence, research aptitude and environmental awareness amongst aspiring technocrats to develop sustainable engineering solutions.
- To provide a forum for active interaction between academia & industry, leading to continuous improvement in engineering education.

1.3 Vision of the Department

To develop technically competent and socially responsible Electronics and Telecommunication engineers capable of fulfilling expectations at indigenous and global levels.

1.4 Mission of the Department

- To provide a conducive educational environment for students by providing good infrastructural facilities, knowledge base and excellent faculty support.
- To provide a strong foundation of core knowledge and exposure to research culture.
- To motivate learners to acquire adequate professional and soft skills, to develop personality traits and eventually transform them as life-long learners.
- To strive and achieve practical exposure by maintaining good rapport with industry and professional network.

Department of Electronics & Telecommunication Engineering   Academic Year 2018-19

1.5 Program Specific Outcomes (PSOs)

- To develop knowledge in the domain of signal analysis and processing and provide a foundation to numerous other courses that deals with signal processing applications.

- To develop basic and applied knowledge of the architecture and assembly language programming for microprocessor/microcontroller based systems, along with the peripheral interfacing.

- To provide an in-depth understanding of electromagnetics, transmission lines and antenna concepts along with microwave devices used for RF and microwave applications.

- To develop knowledge of the fundamental techniques related to generation, transmission and reception in communication systems for a wide range of wired and wireless applications along with revolutionary technology developments.

1.6 Program Educational Objectives (PEOs)

- **PEO1:** To prepare learners for graduate studies by providing strong foundation of basic sciences, computer programing and thus, develop analytical aptitude, and problem solving abilities.

- **PEO2:** To develop a fundamental understanding of electronic & integrated circuits, communication systems and allied disciplines.

- **PEO3:** To develop core competency and expertise in the diverse areas of communication covering Signal processing, Electromagnetic Engineering, Embedded Systems, Computer Communication and Advanced Wireless Networks domains.

- **PEO4:** To inculcate competencies and aptitude in extending acquired technical knowledge to solve real life issues with high professional and ethical standards.

- **PEO5:** To develop proficiency in soft skills and deliver adequate personality traits to enable the pass outs to pursue higher education, to find competitive employment opportunities and/or pursue entrepreneurial ventures.

1.7 Department Information

- Started in the year 1999 with the intake of 30 and which was increased to 60 in the subsequent year.

- The intake was increased to 120 in the Academic Year 2010 – 11.

- In the Academic Year 2011 – 12, Department has started M.E. Program in Electronics & telecommunication with an intake of 18 students.

- For the first time Department got NBA accreditation for two years from January 2013. In second Outcome based evaluation, Department got NBA accreditation for three years from July 2017.

- The Department started with Ph.D. program in Academic Year 2015 – 16 with an intake of 10 students.

- The department is having highly qualified, experienced and dedicated faculties and supporting staff.

- Well-equipped labs and fully air conditioned classrooms with projectors

2. ADMINISTRATION

IETE COMMITTEE

Dr. Amit Deshmukh   Prof. Anuja Odhekar

PROJECT COORDINATOR

Dr. Amit Deshmukh   Prof. Ameya Kadam

DEPARTMENTAL LIBRARY

Dr. Amit Deshmukh   Prof. Archana Chaudhari

ALUMNI COMMITTEE

Prof Shivani Bhattacharjee   Prof. Poonam Kadam

ADMISSION COMMITTEE

Prof. V. V. Kelkar   Prof. Ameya Kadam

NBA CORE COMMITTEE

Dr. Amit Deshmukh	Prof. V. V. Kelkar (PC/NC)	Prof. Ameya Kadam
Prof. Poonam Kadam	Prof S. B. Deshmukh	Prof. Venkata A. P. Chavali

ANTIRAGGING CELL

Prof. T. D. Biradar   Prof. V. V. Kelkar

EXAM COMMITTEE	**NSS Program Coordinator**
Prof. Venkata A. P. Chavali	Prof. Rahul Taware
ANTIRAGGING SQUAD	**DJSCE NEN**
Dr. Amit Deshmukh	Dr S. H. Karamchandani
SPORTS COMMITTEE	**TECHNICAL CHAIR PERSON**
Prof. Ameya Kadam	Prof. T. D. Biradar
TIME-TABLE COMMITTEE	**NPTEL COORDINATOR**
Prof. Poonam Kadam	Prof. V. V. Kelkar
PLACEMENT COORDINATOR	**WOMEN DEVELOPMENT CELL**
Prof. Aarti Ambekar	Prof. V. V. Kelkar

3. IETE- SF

The Electronics and Telecommunication Department of Dwarkadas. J. Sanghvi College of Engineering presents Institution of Electronics and Telecommunication Engineers- Student Forum (**IETE-SF**). The student chapter with a working force committee of 22, consisting of **second year** and third **year students**, hosted a few of the most quintessential and technically challenging events. A membership drive was conducted at the start of the year with an overwhelming response. (www.djsceietesf.com)

IETE Organizing Committee Structure

IETE SF Branch Counsellor :- Prof. Anuja Odhekar

Chairman	Advait Verma
Co-Chairperson	Maitrya Damani, Dishant Shah
Vice-Chairman	Mihir Vithalani, Shane Fernandes
Secretary	Prerana Patel
Jt.Secretary	Mit Shah
Treasurer	Leesha Ramrakhiani

Head Of Departments :

Editorial Head	Niti Doshi
Publicity	Anish Shetty
Marketing	Kevil Shah
Technical	Muddassir Shaikh
Infotech	Shane Fernandes
Creatives	Heer Desai
Events	Shawari Rane, Harshit Mody
Logistics and Inventory	Chirag Thakkar

3.1 Value Added Program

Book Bank

Book Bank is an initiative made by IETE that makes **reference books** available to students at **10% of the original cost**. It improved the core competency and to strengthen the teaching ability. These books are referred by the faculty members and hence it makes the studying process efficient and helps to increase the student's technological knowledge about the subject. It also helps to build a foundation of the concepts that could enhance the practical skills required in the future. It gets updated every year and has several books to offer currently.

Component Bank

DJSCE IETE-SF proudly introduces the **Component Bank Facility,** through which students can benefit by borrowing components they require at a lower price and return them once their job is done. The worry of buying expensive components and then thinking about what to do with them once the project is finished, is eliminated.

4. DEPARTMENT ACTIVITIES UNDER IETE-SF

4.1 Seminar on Speech Processing

Activity: Guest Lecture

Title: Speech processing

Date: 8th of March, 2019.

Number of students participated: more than 50

Year: S.E./T.E./B.E.

Resource Person: Dr Preeti Rao

The talk on Speech Processing, organized by the IETE-SF on 8th of March was given by Dr. Preeti Rao. A professor in the Electrical Engineering department at IIT Bombay, Dr. Preeti has always had close association with the college and has mentored several students. The talk was mainly held for the benefit of the fourth year students for whom the subject plays an important role in the semester and has tremendous application in their post graduate studies. The lecture started with a general synopsis on the importance and scope of the subject. After which Dr. Preeti Rao moved on to explaining the characteristic of basic sound signals, and the immense number of applications of speech processing.

4.2 MATLAB Workshop- IETE FORTNIGHT 2019
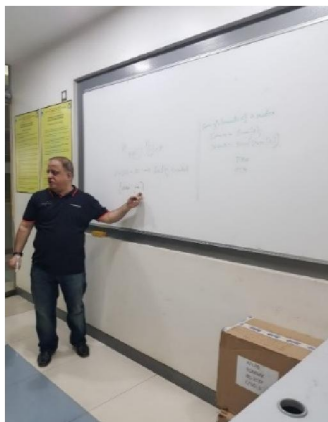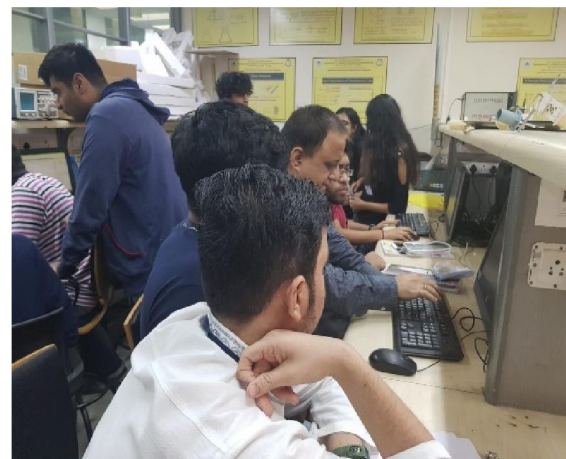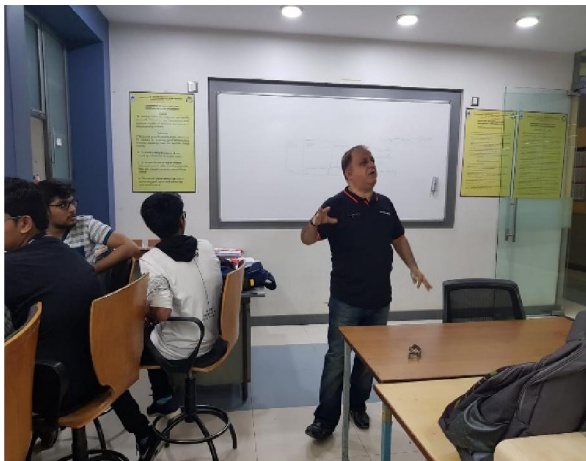
Activity: Workshop

Title: MATLAB Workshop

Date: 20th & 23rd January 2019

Number of students participated: 43

Year: S.E. & T.E.

Resource Person: Dr. Sunil H. Karamchandani

The workshop conducted by Dr. Sunil H. Karamchandani was held over two days. The first day mainly focused on the basic applications of the MATLAB software. The workshop kicked off with the basic understanding of MATLAB and an overview of what was to be covered in the two-day workshop. Not having a course on the workshop in the curriculum before, it helped the students understand the scope and applications of the MATLAB.

4.3 Arduino Workshop- IETE FORTNIGHT 2019
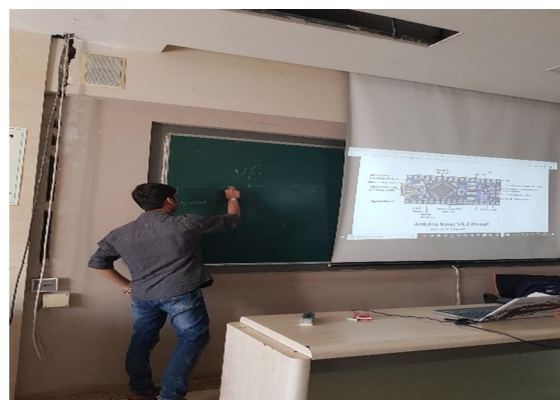
Activity: Workshop

Title: Arduino Workshop

Date: 24th and 25th January, 2019

Number of students participated: 25

Year: F.E. & S.E.

Resource Person: TE EXTC student, Dishant Shah

Dishant Shah, co-chairperson of IETE kicked off this two day seminar with a general introduction to Arduino. Installation instructions and an overview of the functionalities of Arduino were given. With crowd fluttering in to know more about little blue plate, the importance of baud rate and port selection were explained. A presentation was made for the easier explanation of the same. He started with the basic board, an Arduino UNO. Various projects were successfully completed in the two days. The students were made to understand the working of a servo motor and how to code it.

4.4 Artificial Intelligence & Machine Vision Workshop- IETE

FORTNIGHT 2019

Activity: Workshop

Title: Artificial Intelligence & Machine Vision Workshop

Date: 26th, 27th January, 2019, 3rd & 24th February, 2019

Number of students participated: 40

Year: F.E., S.E. & T.E.

Resource Person: Mr. Sameer Kadam and Miss. Aanchal Sharma

The seminar was conducted over a course of three days, 26th, 27th of January and 3rd of February. It was conducted by Ms.Anchal and Sameer, who themselves are the esteemed alumni of the college. The first day started with a round of introductions. The students were asked about the reason they wished to pursue artificial intelligence and what according to them was set in the future of Artificial Intelligence. On the next day the students were divided by the year. The first year students were taught the basics of python and the second years were made to revise the language and do a mini project. On the third day Sameer started the day with neural networks, basic terminologies and concepts. Next Deep Learning and applications of Deep Learning were taught followed by software like Softmax that are used to for Convolution Neural network and the students were then given programs to realize the concepts taught through the morning.

4.5 Placement Guidance & CV Making Seminar-IETE FORTNIGHT 2019

Activity: Seminar

Title: Placement Guidance & CV Making Seminar

Date: 28th January 2019

Number of students participated: 40

Year: F.E. & S.E.

Resource Person: Professor Ranjeet Puyed

This seminar held on the 28th of January, 2019, was conducted over two sessions: a CV making talk by Professor Ranjeet Puyed followed by Placement guidance provided by the fourth year students of the Electronics and Telecommunication branch.

4.6 PCB Designing Workshop-IETE FORTNIGHT 2019

Activity: Workshop

Title: PCB Designing Workshop

Date: 3rd February 2019

Number of students participated: 10

Year: F.E. & S.E.

Resource Person: Student of TE EXTC, Muddassir Shaikh

The PCB designing workshop held on 3rd February, 2019 was conducted by our IETE-SF's very own technical head, Muddassir Shaikh. Muddassir familiarized the students with the basics of the software Altium and taught them how to operate the functions in a very synchronized and easy manner. The students were then familiarized with the more technical aspects of the PCB Designing: scrubbing, ironing, etching, drilling and soldering.

Department of Electronics & Telecommunication Engineering   Academic Year 2018-19

4.7 Industrial Visit to Minda SAI Ltd.

Activity: Industrial Visit

Title: Industrial Visit to Spark Minda SAI Ltd.

Date: 9th February, 2019

Number of students participated: 30

Year: S.E./T.E

Industry: Minda SAI Ltd.

An Industrial Visit to Minda SAI Limited an Automotive Systems Solution provider, was held on the 9th February, 2019. Located at Murbad, Minda SAI has this as an exclusive plant to provide System Solutions to Mahindra & Mahindra corporations. The Industrial Visit started with a 3 hour bus journey from Sahara Star to the Minda SAI production plant. The students were accompanied by Dr. Sunil Karamchandani. On reaching the plant, everyone assembled in the Conference room of the production plant. The students were given a brief introduction about the company, the production plant functioning, and its various products being manufactured. The students were then divided into smaller groups and accompanied by factory personnels to take a tour of the entire factory.

4.8 Industrial Visit to Recording Studio

An industrial visit to Sonic Octaves Pvt. Ltd. was organised by the EXTC department of DJSCE for students of Speech and Audio Processing on 1st April, 2019. Sonic Octaves Pvt. Ltd., established in 2018, is a media company with numerous compositions and recordings. It started out as a production house and later branched out into various other media art forms like audio books, compilations, dubbing, film music among others. 28 students along with Prof. Sunil Karamchandani as a faculty escort, visited their recording studio where all the production takes place.

4.9 STTP on 'Recent Trends Wireless Network'

The STTP aims at equipping teachers with skills and knowledge in order to create a better society by guiding, training and motivating the students to take up research projects. The interactive session helped all the participants to discuss their problems with the experts. All the technical sessions were helpful to all the participants for improving quality of education that we impart in an Institution. With technical advancement and impetus on quality education and globalization, it is much required to enhance and update the technical education through adapting different practices and acquiring the skill sets.

A total of 30 participants attended the course which started on 2nd of January. Inauguration and Keynote address was on "Wi-Fi" delivered by Dr. Pravin Bhagwat founder and CTO of Mojo Networks. This was followed by a session on Research opportunities in 5G Wireless Networks by Dr. Sanjay Pawar. The day concluded with session on Machine learning by Prof.Santosh Chapaneri.

On 3rd of January a session on Narrow Band IoT was conducted by Dr.Zia Saquib Sr.Vice-President Reliance Jio. Which was followed by session on Security Issues in Routing Protocols by Dr.Narendra Shekokar and a session on Voice over IP by Prof Vivek Deodeshmikh. The next session of the day was on Software Defined Radio by Suyog Vyawahare CEO Suyog Technologies.

On 4th of January hands on session for the whole day was conducted by Dr. Pranav Pawar on NS2.

On 5th session on IP Subnetting and Supernetting was delivered by Dr. Deepak Karia. Which was followed by session on Massive MIMO by Prof. Amruta Ruperee. The last session of the day was on Game Theory by Dr. Saurabh Mehta.

On 7th session on Antennas in Wireless Networks was conducted by Dr. Amit Deshmukh. Which was followed by hands on session on NS2 by Dr. Ramchandra Mangrulkar. The STTP was concluded by a talk on Quality of Service in Mobile Ad-Hoc Networks by Dr. Uattam

Kolekar. A test was conducted in which all the participants secured more than 60% result of which will be sent to ISTE.

The overall feedback of the Training Program was encouraging and was highly rated by the participants. I am sure that these 5 days session on various aspects of Wireless Network must have enhanced knowledge and broadened practical view of each participant.
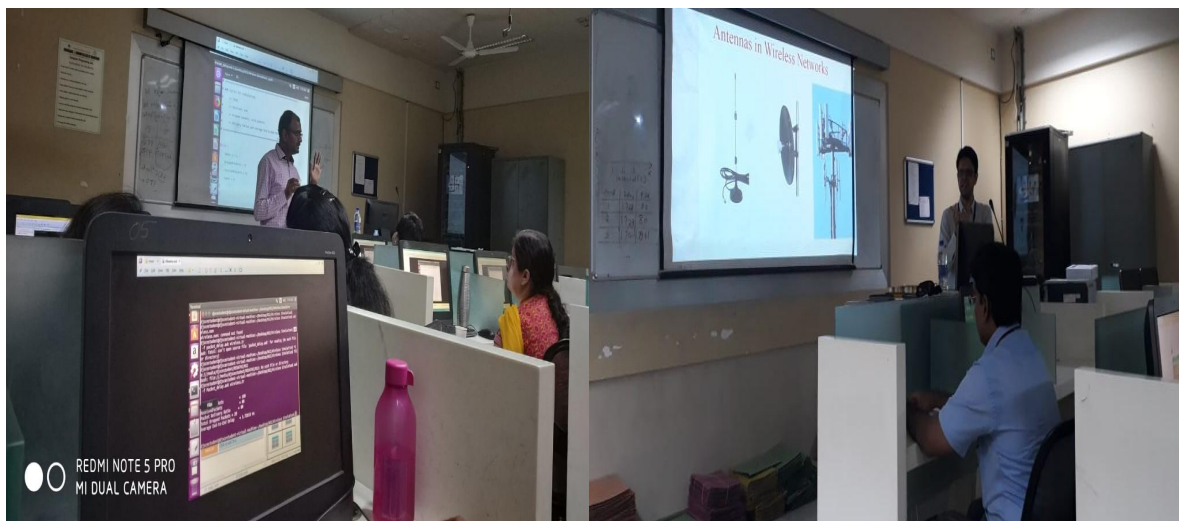
Department of Electronics & Telecommunication Engineering   Academic Year 2018-19
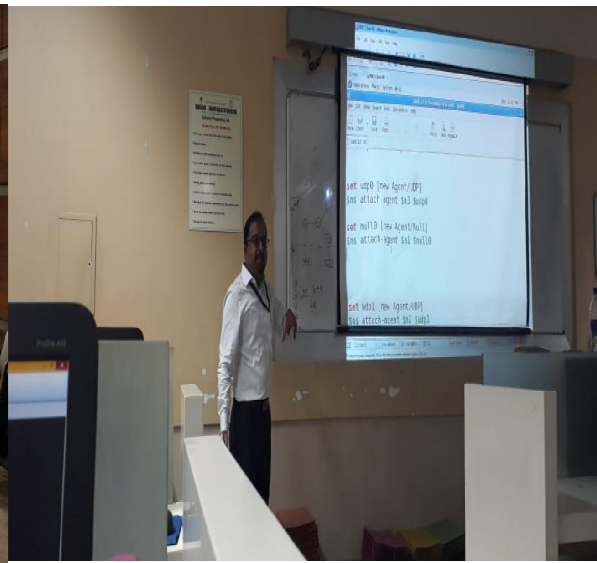
4.10 DJS Arya 2018-19

DJS Arya represents DJSCE at the International CanSat competition organized by the American Astronautical Society (AAS) and American Institute of Aeronautics and Astronautics (AIAA). CanSat is a global level competition where colleges from all around the world participate. The contest is organized in affiliation with U. S. Naval Research Laboratory, NASA, Siemens, etc. Last year, in the first attempt they stood 96th among 300+ teams at CanSat 2018. This year they have qualified for the finals by securing 24th rank among 300+ teams at CanSat 2019. The competition consists of 5 different stages:

- Phase one in is the application phase.
- Phase two is the Preliminary Design Review (PDR).
- Phase three is the Critical Design Review (CDR).
- Phase four is the launch weekend.
- Phase five is the Post Flight Review (PFR).

This annual competition is open to teams from universities and colleges. Teams must be able to design and build a space-type system, following the approved competition guide, and then compete against each at the end of two semesters to determine the winners. Rockets will be provided but teams are responsible for funding the construction of their CanSat and all travel/lodging expenses. The qualification of a team is decided on the basis of PDR score. The top 40 teams are invited to compete in the finale. We are proud to announce that our team will be going to Texas this year to represent our college, our state and our country at this Global competition.
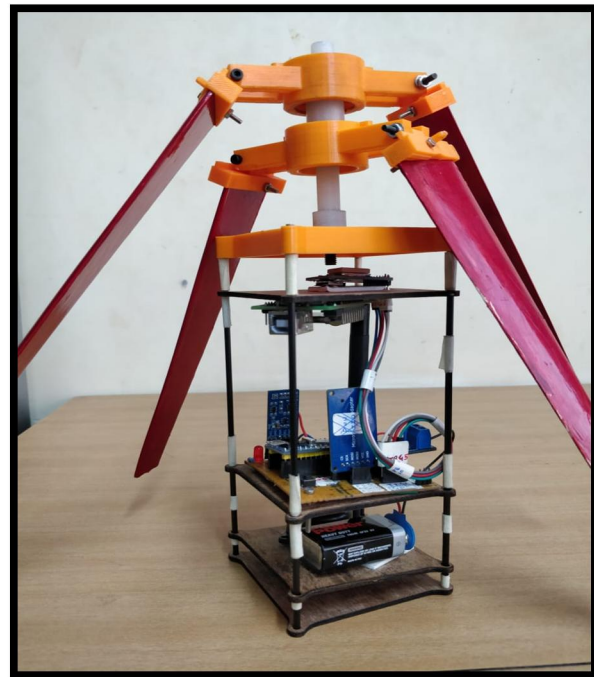
4.11 DJ Spark'19

DJ Spark is paper a state level technical and project presentation competition organized by the IETE-SF Committee of EXTC Department, DJ Sanghvi College of Engineering. DJ Spark'19 was the 8th year of DJ Spark. In just 7 years, DJ Spark has made its way from a small project exhibition to a full-fledged State level technical paper and project presentation competition. Students come in from different colleges across the state to present their projects and technical papers based on their ideas and interests. The judges for the competition were Mr. V.W.Acharya, Vice President, Aplab Ltd, Thane and Mr. Santosh Chapaneri, Assistant Professor, SFIT, Mumbai.

After a tough competition and evaluation of the projects done by the judges, the winners of DJ Spark'19 were:

- 1st Prize – Smart Energy Meter using RFID & IoT (Pooja Jha, Kinjal Savla, Deepshikha Patwa)
- 2nd Prize – Robotic Arm using Bluetooth & Arduino (Anish Shetty, Harin Vashi, Aamir Khambati, Devna Dave, Janvi Chitroda, Mohsin Khan)
- 3rd Prize – IoT based Smart Parking System (Pratik Sagar, Shruti Ravichandran,Aditya Prajapati, Akash Das, Nishi Modi, Gaurang Kamat, Rushabh Shroff)

The winners were awarded prizes by Dr. Hari Vasudevan, Principal, DJSCE and   Dr. Amit Deshmukh, Head of Department, EXTC.

4.12   DJ Strike 2019

'DJ Strike' is a mentorship program. It is an initiative which begun at the start of the academic year. Teams comprising of second year and third year students were given an opportunity to create industrial level projects under the guidance of BE mentors as well as a faculty mentor.

The strike review process was divided in three parts. It started off with the first review which took place on the 10th, 11thand 12th of January wherein the teams had to submit the project proposal. The second review held on the 14th, 15th and 16th of February was to portray the 50% of the project. The third review help on 11th, 12th, 13th of March was to present the complete technical paper for an internal evaluation. The internal evaluation done by Prof. Yukti Bandi, Prof. Venkatramanan and Prof. Tushar Sawant was a rigorous evaluation spread over the course of three months. The final presentation was graded out of sixty and combined with the internal evaluation which was out of 40, the winners were declared on the basis of both the evaluation.

The judges who conducted the final review were an anomaly of our esteemed alumni, Mr. Sameer Kadam, Ms. Shruti Pistolwal and Ms Komal Ajmera All of the judges are doing extremely well in the fields of their choice be it entrepreneurship, teaching, corporate. They serve as the perfect role models to all the students and provide inspiration for them to work harder.

- 1st Prize (EyeRis Vision for Blind 2):

  Team: Jash Patani, Krisha Mehta, Sampras D'souza, Soumyaprakash Dasmohanpatra, Pratik Kanani

  Teacher Mentor: Prof. Tushar Sawant

- 2nd Prize (Intelligent farm Assistant):

  Team: Crispin Lobo, Sarfaraj, Pradeepti Gupta, Harsh Benahalkar, Jay Vyas, faisal Sadique, Saurav Rajwani.
  Teacher mentor: Mrunalini Pimpale.

- 3rd prize (Sign Language Translator):
  Team: Dipak Chandak, Viren Contractor, Harsh Vaishnav, Devanshi Shah, Harsh Sanghvi Teacher Mentor: Mrunalini Pimpale.

4.13 SMART INDIA HACKATHON 2019 - Software Edition

Team Name- Thugs of Hindustan

Problem Statement- Driver alertness and rash driving detection

Problem Code- LB9

Ministry Name- MindTree Pvt. Ltd.

It is a multinational information technology and outsourcing company headquartered in Bengaluru, India and New Jersey, USA.

Team Members-

1. Dishant Shah (TE EXTC 2)
2. Pooja Jha (BE EXTC 2)
3. Shruti Ravichandran (TE EXTC 2)
4. Aashreen Raorane (TE Comps 2)
5. Shane Fernandes (TE EXTC 2)
6. Hitanshu Rami (TE Comps 2)

Team Mentors-

1. Prof. Tushar Sawant (EXTC Department)
2. Prof. Pratik Kanani (Computer Department)

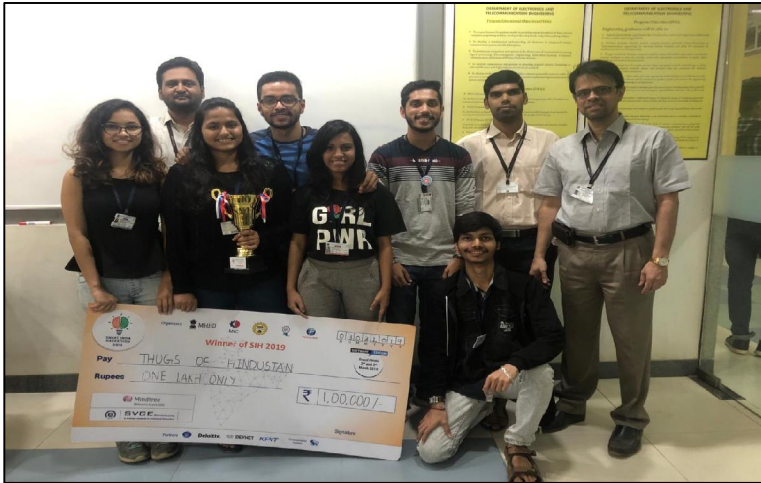**Nodal Centre-** Sri Venkateshawara college of Engineering, Bengaluru, Karnataka

About the competition-

Smart India Hackathon 2019 is a nationwide initiative to provide students a platform to solve pressing problems we face in our daily lives and thus inculcate a culture of product innovation and a mindset of problem solving. The last edition of the hackathon saw over 5 million+ students from various engineering colleges compete for the top prize at 35+ locations. It is an initiative by Ministry of HRD, AICTE, Persistent Systems, i4c and Rambhau Mhalgi Prabodhini. It involves 1 Lakh+ technical students, 3000+ technical institutions, 200+ organizations from across India, It's World's biggest Software and Hardware hackathon. The 3rd edition of highly successful Smart India Hackathon initiative. Technology Students across India compete to creatively solve problems and offer technical solutions. This competition connects expertise of students from IISc, IITs, NITs and AICTE/UGC approved institutions.

![SVKM logo]

SHRI VILEPARLE KELAVANI MANDAL'S
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
Approved by AICTE and Affiliated to the University of Mumbai

Department of Electronics & Telecommunication Engineering   Academic Year 2018-19

5. ACHIEVEMENTS

5.1 Faculty Publications- Conferences / Journals

Sr.No.	Name of Faculty	Publications
1	Dr. Amit Deshmukh	[1] Amit A. Deshmukh, Divya Singh and K. P. Ray, "Modified Designs of Broadband E-shape Microstrip Antennas", Sadhana - Academy Proceedings in Engineering Science, Springer Publication, (https://link.springer.com/article/10.1007%2Fs12046-018-1030-8).
		[2] Amit A. Deshmukh and Priyanka Verma, "Crescent Shape Microstrip Antenna for Dual polarized Multi-band Response", Journal of Microwaves, Optoelectronics and Electromagnetic Applications, Vol. 18, No. 1, March 2019, pp. 18 – 32, (DOI: http://dx.doi.org/10.1590/2179-10742019v18i11333).
		[3] Amit A. Deshmukh, Akshay Doshi and Anuja Odhekar, "Gap-coupled Designs of Star shape Microstrip Antennas For Dual band and Wide band Circular Polarized Response", Accepted for publication in International Journal of RF and Microwave Computer-Aided Engineering.
		[4] Amit A. Deshmukh, Priyanka Verma and Shefali Pawar, "Variations of P-shape Microstrip Antennas for Multi-Band Dual Polarized Response", Accepted for publication in IET Microwave Antenna and Propagation (DOI:10.1049/iet-map.2018.5333).
		[5] Bharati Singh, Nisha Sarvade, K. P. Ray and Amit A. Deshmukh, "Tapered antenna array with non-identical Triangular MSA elements for FSLL reduction", Wireless Personal Communications, (http://link.springer.com/article/10.1007/s11277-019-06218-z), Springer Journal.
2	Prof. S. B. Deshmukh	[1] Sanjay Deshmukh, Akshay Doshi, Amit A. Deshmukh "Proximity Fed Broadband Equilateral Triangular Microstrip Antenna using Parasitic Rectangular Patches",

		National Conference on Communications(NCC) 2019 Indian Institute of Science 20-23 Feb 2019.
3	Prof. Poonam Kadam	[1] Poonam A. Kadam and Amit A. Deshmukh, "Multiband Microstrip Antenna using Modified Pi-shape slot on Ground plane", International Journal of Wireless and Microwave Technology, MES Press, vol. 9, no. 1, January 2019, pp. 23 – 35, DOI: 10.5815/ijwmt.2019.01.03 [2] Poonam A. Kadam, Amit A. Deshmukh , Ashay Doshi, Sanjay Deshmukh, "Analysis and Resonant length formulation of Dual band Microstrip antenna with Modified ground", NCC 2019.
4	Prof. Anuja Odhekar	[1] Anuja A Odhekar, Poonam Kadam, Sanjay B Deshmukh Amit A Deshmukh, "Innovative Technique to realize Circular Polarization using Sinusoidal Perturbation for Square Microstrip Antenna", ICCCE-2019- International Conference on Communication and Cyber Physical Engineering -2019.
5	Prof. Ameya Kadam	[1] Ameya Kadam, Amit A.Deshmukh, "Modal Analysis of Triple Frequency Band Notch Ultra-Wideband Monopole Antenna", 2nd International Conference on communications and Cyber Physical Engineering (ICCCE 2019). [2] Ameya Kadam, Amit A.Deshmukh, "Slit Loaded Pentagon shaped Ultra Wideband antenna for Band Notch characteristics", Third IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2019). [3] Ameya Kadam, Amit A.Deshmukh, "Slit Loaded Circular wideband Antenna for Band Notch Characteristics", National conference on Communication (NCC 2019).
6	Dr. Sunil Karamchandani	[1] A.shah, S.Karamchandani, Unsupervised Maneuvering Robot for Scouring Application, IEEE 5th I2CT 2019 Pune, 29,31st March 2019 [2] Sunil Karamchandani, "Feature Extraction for the Prediction of Mental Health Using Decision Tree", First International Symposium on Computer Vision and

		Machine Intelligence in Medical Image Analysis (ISCMM-2019), IEEE Xplore ISBN: 978-1-5386-7989-0
7	Prof. Venkata APC	[1] Venkata A P C, Amit A. Deshmukh, Aarti G. Ambekar Compact Stub Loaded Modified Plus Shape Microstrip Antenna For Broadband Response ICCCE 2019: Proceedings of the 2nd International Conference on Communications and Cyber Physical Engineering
		[2] Venkata A P C, Amit A. Deshmukh, Aarti G. Ambekar Analysis of Microstrip Patch Antenna With Multiple Parasitic Patches and Shorting Vias For Bandwidth Enhancement IEEE International Conference on Electrical , computer, and Communication Technologies, 2019
		[3] Venkata A P C, Amit A. Deshmukh, Aarti G. Ambekar, Ameya Kadam Analysis and Design of Broadband MSA with Hybrid Coupled and Parasitic Patches 3rd International Conference on Optical & Wireless Technologies (OWT 2019)
		[4] Chavali, V.A., Deshmukh, A.A., Ambekar, A. and Ray, K., 2019. Diagonally Fed Square Microstrip Antenna for Wideband Dualpolarized Response. Available at SSRN 3366762.
8	Prof. Archana A. Chaudhari	[1] Neeraj Ramkumar, Archana Chaudhari, "Urban bus arrival time prediction using linear regression and kalman filter- a comparison", International Conference on Soft Computing and Signal Processing (ICSCSP–2019)), ISSN: 2194-5357,Springer https://www.springer.com/us/book/9789811333927

9	Prof. Yukti Bandi	[1] Yukti Bandi, Parth Thakar, Nigam Shah, Rishabh Shah, Vibhav Sharma, "RF Based Energy Harvesting System using Monopole Antennas", International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2019), IEEE Xplore
10	Prof. Arati Ambekar	[1] Aarti G. Ambekar, Venkata AP Chavali, Ameya Kadam,Amit Deshmukh, KP Ray, "Slit Cut Circular Microstrip Antenna For Multiband Response" ICCCE 2019: Proceedings of the 2nd International Conference on Communications and Cyber Physical Engineering, Oganized by Raisoni College of Engineering, Pune, Feb 1- 2 ,2019 Springer
		[2] Aarti G. Ambekar, Venkata AP Chavali, Ameya Kadam, Amit Deshmukh, KP Ray, "Investigation Into The Multiband Response of Shorted M-Shaped Patch Antenna", IEEE International Conference on Electrical , computer, and Communication Technologies, 2019(ICCECCT2019) 978-1-5386-8158-9/19/$31.00
		[3] Aarti G. Ambekar, Venkata AP Chavali, Chinmay Kudoo, Manasi Shah, Amit Deshmukh, KP Ray, "Multiband Response Investigation For Stub Loaded Right Angled Isosceles Triangle Microstrip Antenna", 3rd International Conference on Optical & Wireless Technologies (OWT 2019), Organized by MNIT Jodhpur, 18th and 19th February, 2019 Springer (In Process)
		[4] Aarti G. Ambekar,Venkata AP Chavali, Amit Deshmukh, KP Ray, "Dual Polarized Multiband Stub And Slot Loaded Semicircular Microstrip Antenna", 2nd INTERNATIONAL CONFERENCE on ADVANCES IN SCIENCE AND TECHNOLOGY ICAST-2019

		Organized by K J S I T, Sion, Mumbai, 8th and 9th March, 2019 SSRN 3368184, SSRN-Elsevier on line Digital Library https://papers.ssrn.com/sol3/cf_dev/AbsByAuth.cfm?per_id=3460738

5.2 Interaction of faculties with outside world/ Achievements/ STTP/ FDP

Sr. No.	Name of Faculty	Description
1	Dr. Amit A. Deshmukh	1. Member of LIC committee of University of Mumbai for visit to RGIT and SPIT Mumbai for Post-graduate program 2. In the panel for Annual Progress seminar for research scholar at VJTI Mumbai 3. Attended ICCCE 2019 conference organized by Raisoni College of Engineering, Pune in February 2019 4. Session chair at NCC-2019 at IISc Bangalore in February 2019 5. Session chair at ICAST 2019 at KJSEIT, Sion Mumbai, April 2019
2	Prof. Tanaji Biradar	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.
3	Prof. Vishakha Kelkar	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019. 2. Attended 2 days FDP on, "Active Teaching Learning Strategies using Innovative Technology" during 25th Feb to 26th Feb 2019. 3. Received Appreciation certificate from NPTEL-Swayam for semester July-Dec18.
4	Prof. S. B. Deshmukh	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.
5	Prof. Poonam Kadam	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.

6	Prof. Anuja Odhekar	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.
7	Prof. Rahul Taware	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.
8	Prof. Shivani Bhattacharjee	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.
9	Dr. Sunil H. Karamchandani	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.
10	Venkata A P C	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.
11	Prof. Ranjushree Pal	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.
12	Prof. Mrunalini Pimpale	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019. 2. Attended 2 days FDP on, "Active Teaching Learning Strategies using Innovative Technology" during 25th Feb to 26th Feb 2019.
13	Prof. Archana Chaudhari	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019. 2. Attended 2 days FDP on, "Active Teaching Learning Strategies using Innovative Technology" during 25th Feb to 26th Feb 2019.

14	Prof. Yukti Bandi	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.
15	Prof. Revathi A S	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019. 2. Attended 2 days FDP on, "Active Teaching Learning Strategies using Innovative Technology" during 25th Feb to 26th Feb 2019.
16	Arati Ambekar	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.
17	Prof. Tushar Sawant	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.
18	Prof. Venkat Ramanan	1. Attended One week STTP on "Recent Trends in Wireless Networks" at DJSCE during 2nd Jan to 7th Jan 2019.

5.3 Students Achievements

Sr. No.	Name of Student	Event
1	Maitriya Damani	German Language Proficiency A2 and B1 level examination on 07/10/18, 17/02/19 and 24/02/19 score : 88/100 in A2 and 88/100(average) in B1
2	Pooja Jha	Vice-captain, multiple stages of the cansat competition, Stephenville, Texas, USA
3	Maitriya Damani	Training at Doordarshan Sahyadri about the transmission and process chain of the media industry during 07/01/19-14/01/19
4	Jainy Gandhi	Training at Doordarshan Sahyadri about the transmission and process chain of the media industry during 07/01/19-14/01/19
5	Aaron Goes	Training at Doordarshan Sahyadri about the transmission and process chain of the media industry during 07/01/19-14/01/19
6	Saurabh Ghule	Training at Doordarshan Sahyadri about the transmission and process chain of the media industry during 07/01/19-14/01/19
7	Payal panchal	Internship at Gravity Techno June-july 2019
8	Pankti Parekh	Internship at Commondove 20/10/2018-2/3/2019
9	Bhavin Shah	Internship at Proventus In Security Division during 14/8/2018 TO 28/2/2019
10	Sanjeet Krishna	shot put winner (gold), event on 7th February 2019
11	Prathmesh Desai	Dj Sanghvi Cricket Team at DJ SANGHVI, Runners up, event on 11th march 2019
12	Sharvari Rane	First lego league referee 2018-19
13	Dishant Shah	First lego league referee 2018-19
14	leesha Ramrakhiany	First lego league referee 2018-19
15	Bhumi N. Godiwala	Attended AI MV Workshop on 26/01/2019

16	Musaddiq Bakali	Attended 2 days workshop on Application of Arduino
17	Pooja Jha	Team 'Thugs of Hindustan' winner of Smart india Hackathon organized by MHRD
18	Rajit Subin	Attended two days workshop on Raspberry pi
19	Hiral Mody	Done Online course Stanford Univ , Coursera on Machine learning
20	Akshay Patel	Done Online course Stanford Univ , Coursera on Machine learning
21	Suyash Ali	Participated in Formula Bharat 2018 organized by Kari Motor sppedway, Coimbatore,TN
22	megh Doshi	Participated in BAJA SAEINDIA 2018 organized by SAEINDIA
23	Heetika Gada	Participated in DJ Spark 2019
24	Advait Varma	Participated in DJ Strike 2019
25	Sharvari Rane	Participated in DJ Strike 2019
26	Shruti Ravichandran	Participated in DJ Strike 2019
27	Shruti Ravichandran	Participated in DJ Strike 2019
28	Shruti Ravichandran	Won Smart India Hackathon 2019-Software Edition organized by MHRD
29	Dishant Shah	Won Smart India Hackathon 2019-Software Edition organized by MHRD
30	Rishi Sawant	Participated in DJ Strike 2019
31	Musaddiq Bakali	Presented paper in National Leadership Delegate Summit during 1st-4th March 2019
32	Urmil Joshi	Presented paper in the confersnce ICNTE organised by Fr. C Rodrigues institute of Technology, Vashi, 4-5th January 2019
33	Abhinav Kashyap	Presented paper on 'Object recognition for the visually Impaired', at ICNTE in Jan 2019, conference organised by Fr. C Rodrigues

|		institute of Technology, Vashi, 4-5th January 2019
34	Abhinav Kashyap	Presented paper on 'Simulating and Embedding Fuzzy Logic for Dynamic Stablization', at ICNTE in Jan 2019, conference organised by Fr. C Rodrigues institute of Technology, Vashi, 4-5th January 2019
35	Pooja Jha	Presented paper on ' Portal based energy billing system using GSM and IoT', at ICNTE in Jan 2019, conference organised by Fr. C Rodrigues institute of Technology, Vashi, 4-5th January 2019
36	Akshita shetty	Presented paper on 'feature extraction for the prediction of mental health using decision tree'
37	Vishnu Priya	Participated in DJ Strike 2019
38	Jeneel Kachhadiya	Presented paper on ' implementation of LI-FI Based multi-hop adhoc network for inter vehicle communication', at ICNTE in Jan 2019, conference organised by Fr. C Rodrigues institute of Technology, Vashi, 4-5th January 2019

6. Result Analysis

Class:- SE

No. of students: 149

	Distinction	I Class	II Class	Pass class	Fail
SE Result Analysis(SEM III) M DEC 2018	97	24	7	1	18

Subject wise Result Analysis

Subject	Appeared	Pass	Fail
Applied mathematics iii	149	144	5
Elctronic devices and circuitsi	149	136	13
Digital system design	149	149	0
Circuit theory and network	149	140	9
Electronic instruments and control	149	148	1

SE Result Analysis (SEM IV) for DEC 2018
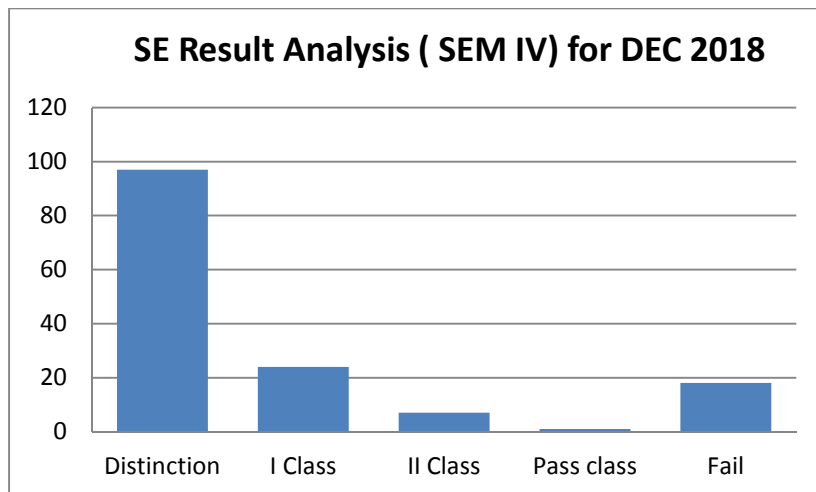
Name	Rank	GPA
Dhruv Bhavsar	FIRST	10
Nishi Modi	FIRST	10
Sayantan Roy	FIRST	10
Sidhhant Salvi	FIRST	10
Bhavya Shekhani	SECOND	9.81
Darshil Shah	THIRD	9.69
Rahul Sanghvi	THIRD	9.69

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Class: TE

Total No. of students = 148

	Distinction	First class	Second class	Pass class	Fail
TE Result Analysis(SEM V)-DEC 2018	72	52	13		11

Subjectwise Result analysis

Subject	Appeared	pass	fail
Microprocessor and peripherals interfacing	148	143	5
Digtal communication	148	146	2
Electromagnetic engineering	148	143	5
Discrete time signal processing	148	145	3
Data compression and encryption	148	145	3

TE Result Analysis (SEM V) for Dec 2018
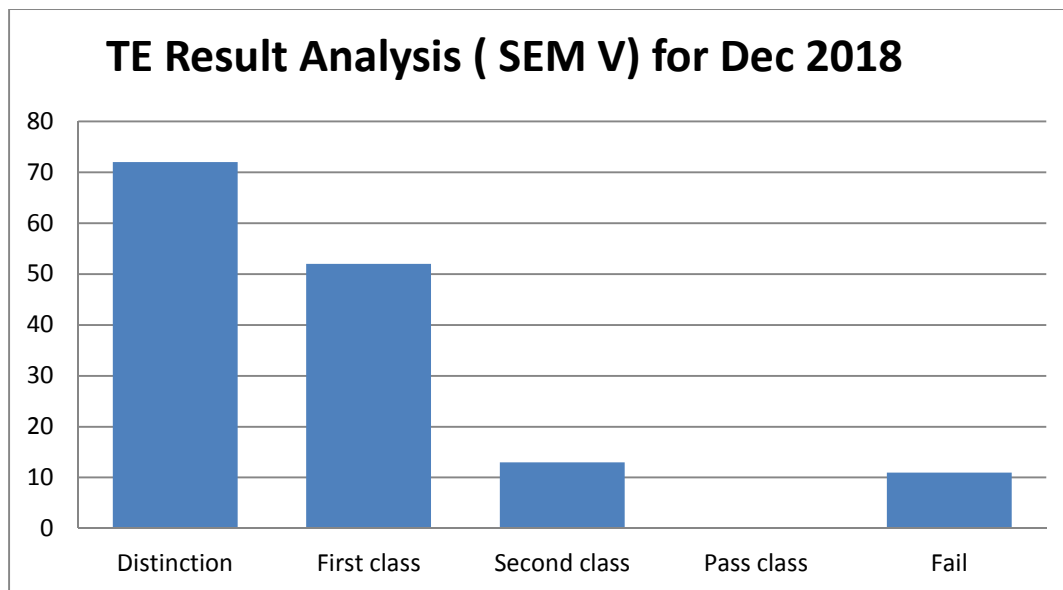
Name	Rank	GPA
ROHAN DEO	First	10
SHRUTI RAMACHANDRAN	First	10
DEEPTI KAMATH	Second	9.85
HINAL PANCHAL	Third	9.85
NIKITA MAGAR	Third	9.7
ADVAIT VARMA	Third	9.7
RITIKA GORE	Third	9.7

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Class: BE

Total No. of students = 148

	Distinction	First class	Second class	Pass class
BE Result Analysis(SEM VII)- DEC 2018	42	75	18	1

Subjectwise Result Analysis

Subject	Appeared	pass	fail
Image and video processsing	148	145	3
Mobile communication	148	144	4
Optical communication and networks	148	146	2
Microwave and radar engineering	148	141	7
Elective 1 nnfl	148	144	4
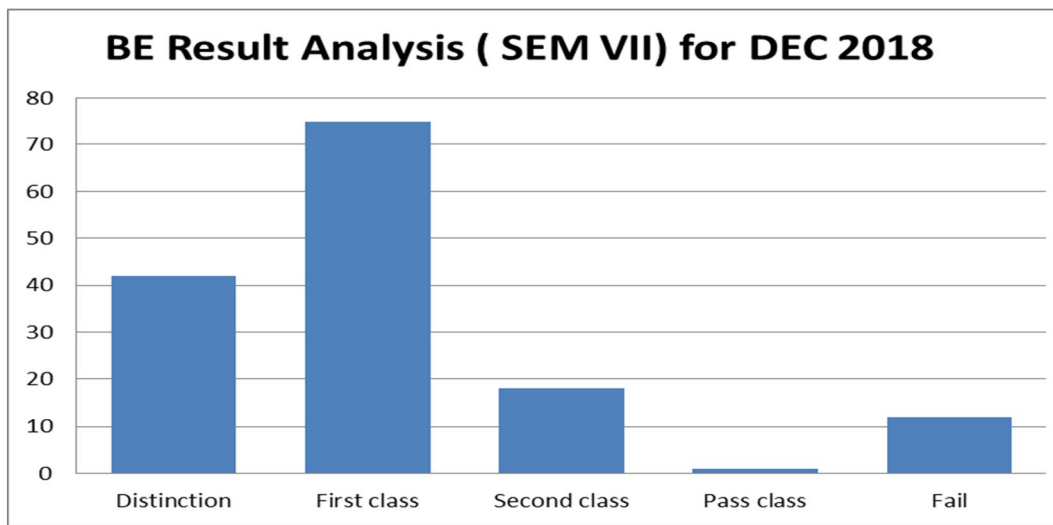
Name	Rank	GPA
SHAH PRACHI	First	9.7
DALMET WALLACE	Second	9.22
BANDEALI LIZNA	THIRD	8.96

7. Placement Data

Total no. of Students placed = 116

Sr. No.	Company Name	Number of Students Placed	Salary Per Annum(LPA)
1	JP Morgan Chess	1	11
2	Wissen Tech	1	10
3	GEP	4	8
4	Carwale	1	7.5
5	Quantiphi	10	6.5
6	Think Analytics	2	6.5
7	Tresvista	2	6.07
8	GE	1	6
9	OFSS	1	6
10	Bill Desk	5	6
11	Flexilaons	2	6
12	AYRO RETAIL	1	6
13	Edelweiss	2	5.5
14	Insosys	1	5.5
15	Cartesian	1	5
16	Intellect	4	5
14	Saffron Says	2	5
15	Amdocs	1	4.75
16	Grawfitter	1	4.5
17	Deloite	5	4.4
18	ENY	5	4.25

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19	LTI	4	4.18
20	Endurance	1	4
21	Media.Net	1	3.9
22	Infosys	27	3.6
23	TCS	13	3.5
24	Logiquids	2	3.5
25	Reliance Jio	8	3.5
26	WIPRO	1	3.5
27	Verdantis	1	3.5
28	Tata Communication	2	3.4
29	India Mart	2	3
30	NSEIT	1	3
Minimum CTC in LPA: 3.0LPA	**Maximum CTC in LPA : 11.0 LPA**		