TECHNOVA

IETE MAGAZINE 2018-2019

Terna Public Charitable Trust Terna Engineering College is one of the well known and finest technical institutions with "A" Grade from Maharashtra Government and having ISO 9001 quality.

Management system and is among top colleges in Mumbai.

Terna offers Education in highest quality with its curriculum and present broad array of exceptional offerings in Engineering and Technology studies.

The Department of Electronics & Telecommunication is one of the most reputed in Mumbai University, well known for both its academic excellence and innovative approach. It has been successfully organizing seminars /workshops/industrial visits for the benefit of the students. The faculty forms the nerve of the department. We have a well trained & highly motivated staff. In addition to the teaching assignments, some faculty members are engaged in research work which is actively supported by the college. Stalwarts from the industry are frequently invited to conduct seminars on various subjects. Our students have won Texas instrument project competition since the last two years. In this competition we were the only college from Mumbai University and among the top 20 institutions in India, including IITs and NITs.

MISSION

To create self-motivated quality Engineers and technocrats to contribute effectively to value based society and in the field of science and technology.

VISION

To catalyze and inspire young minds for innovative thinking and creativity and to acquire knowledge and professional ethics essential for facing global challenges in rapidly changing technologies to serve the society and industry effectively.

IETE

The Institution of Electronics and Telecommunication Engineers (IETE) is India's leading recognized professional society devoted to the advancement of science, technology, electronics, telecommunication and information technology. Founded in 1953, it serves more than 70,000+ members through 60+ centers/sub centers primarily located in India (3 abroad). The Institution provides leadership in scientific and technical areas of direct importance to the national development and economy. Association of Indian Universities (AIU), Union Public Service Commission (UPSC) has recognized AMIETE, ALCCS (Advanced Level Course in Computer Science). Government of India has recognized IETE as a Scientific and Industrial Research Organization (SIRO) and also notified as an educational institution of national eminence. The IETE focuses on advancement of electronics and telecommunication technology. The IETE conducts and sponsors technical meetings, conferences, symposium, and exhibitions all over India, publishes technical [1][2] and research journals [3] and provides continuing education as well as career advancement opportunities to its members.

CONTENTS

IETE COMMITTEE

Empowerment of students for their overall development through education is our cherished motto. Today education means much more than just acquiring knowledge. I am proud of being a part of such a beautiful institution dedicated to the causes of better India. Through education and empowerment lets give our best for the overall development of IETE.

- Dr. Jyothi Digge

Dr. Jyothi Digge
HOD of electronics and telecommunication

Technical magazine has been bridging the boundaries of knowledge, understanding and practical application. In my capacity I have always encouraged the students to put forth their ideas. I would also thank the hardworking student members of the committee who are continuously making department proud. I am also thankful to our principal Dr.L.K.Ragha and HOD of electronics and telecom. Department Dr. Jyothi Digge for their unconditional support.

-Prof. Rupali Shekokar

Prof. Rupali Shekokar
Faculty In-Charge

Working as President under IETE has been a wonderful experience. I got to lead a group of 11 members which eventually developed leadership quality in me. IETE gave us a platform to conduct seminars and worships on the current technologies which helped students to understand the world around in terms of applied science. In IETE we were not confined to a particular zone of interest because of which the topics that we choose for the seminars/workshops were related to other branches of engineering as well. Working for such a versatile committee, I have really evolved in terms of confidence. All in all it's been great serving this committee.

-President

Saumya Mishra
President

Being a Vice President! It has been a wonderful journey for me! I learned many new technologies, fields which can still be explored by us, leadership quality! Best team! Best group! Best experience!

-Vice President

Reliability is the name of the game when you're a secretary. It has been a great journey for me being as the secretary in the committee. It has boosted my management skills as well as confidence. I am grateful for the support given by coordinator of committee and HOD to support in each and every step taken by us in this committee.

-Secretary

Leena Kandpal
Secretary

I'm the vice-secretary of IETE committeee. My experience working with the team was awesome. Our IETE event which we had conducted was great all participants had fun and enjoyed it. Each and every member of the committee was helpful and supportive. "Coming together is a beginning staying together is progress and working together is success."

-Vice-Secretary

Vaibhavi
Vice-Secretary

IETE committee gave me experience of financial control and budgeting. It gave me the capability of an orderly mind and methodical way of thinking.
It made me capable of handling figures and cash.
As I'm a committee member it gave me the ability to ensure decisions are taken and followed -up.
IETE committee also enhanced our communication and interpersonal skills.

-Treasurer

Arti Sanap
Treasure

Darshil Shah
Membership Head

It was a great pleasure for working with IETE.
I was the membership head of this council. It boosted my self-confidence and I was able to interact with many people and convince them to join IETE. IETE also gave me platform where in all the ideas were welcome for the betterment of IETE

-Membership Head

Pankaj Chaurasia
Membership Head

It has been a pleasure being a part of IETE committee. This journey has boosted my confidence and has taught the value of team work and persistence. Being the membership head, I learned to communicate effectively and get members to join the committee. Its been amazing working with this team.
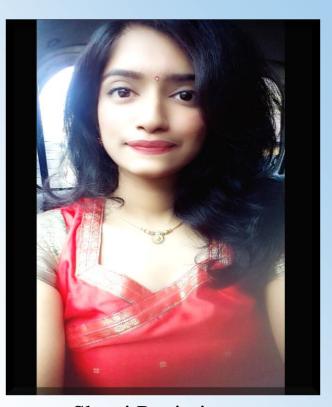
"Experience is the teacher of all the things".
It has been an amazing experience as a part of the IETE committee and as a magazine secretary which taught me a lot of things which I wouldn't have learned otherwise. I am glad for this opportunity and will always be thankful for the experience and all that I learned throughout this journey.

-Magazine Secretary

Skanda Rao
Magazine Secretary

I am very thankful to IETE for giving this great opportunity of exploring management skills and developing the art of responsibility.

It has been a pleasure to work with this super team of IETE and gain experience which can never be replaced

-Magazine Secretary

Shruti Poojari
Magazine Secretary

EVENTS ORGANIZED UNDER IETE

Seminar on Encryption and System Security for TE and BE students

Date: 11/10/2018.

The seminar on Encryption and System Security was conducted on 11/10/2018 in the Seminar Hall. The speaker was Mr Dr. Narendra Shekokar from Dwarkadas. J. Sanghvi College of Engineering.

Over 83 students attended the seminar. The objective stated for the seminar was to offer application based on cyber security ,system security, data mining, computer network, operating system.

Seminar on Advanced Excel and Webpage Designing

Date: 04/09/2018

The seminar on Advanced Excel and Webpage Designing was conducted on 04/09/2018 in the room no.119. The speaker was Mr sagarvijan . 72 students attended the seminar.

It was quite helpful for students as it cleared their mind on what field they could extend their studies and research on.Learn and interact with one of the respected authorities in the field of Web page Designing.

Practical demonstration for each module mentioned in course contents. Improve your job prospects and get an edge over your counterparts. The session was quite interactive as some of the students interacted and participated effectively. The session was concluded with students asking questions regarding various problems faced by them, to which sir provided effective solutionsand finally session concluded with a vote of thanks sir.

Introductory Seminar on IETE for students

Date: 15/10/2018

The Introductory seminar on IETE was conducted on 15/10/2018 in the Seminar Hall. The seminar was delivered by IETE members. Over 80 students attended the seminar. The seminar were to give information about IETE and benefits to become a member. The session was quite interactive as some of the students interacted and participated in quiz. The session was concluded with H.O.D of EXTC Dr.Jyothi Digge encouraging students to take membership.

IETE Day celebration

Date: 01-02-2019

The IETE day was celebrated on 1st February 2019 in room number 109. The celebration started with a welcome speech. A brief introduction about IETE and its activities was delivered by the IETE student branch President and secretary. Guest speech was given by Dr.L.K.Ragha (Principal) and Dr.Jyoti Dighe (Head Of Department) of Electronics and Telecommunications. A Quiz competition was conducted for the students in attendance. A total of 60 students were present for the IETE Day celebration. Prizes were distributed to the winners of the quiz competition. The celebration ended with vote of thanks.

EXPERT TALK ON NETWORKING.

DATE:23/08/2018

An expert talk on Networking was conducted on 23rd august 2018 in the Seminar Hall.

The Speaker was Arathi Boyanpalli. 69 Students attended the seminar. The topics covered in the seminar were – Introduction and the need to study networking technologies. A brief explanation was given on topics –Types of networking, Networking devices, Transmission media and the future scope of networking technologies. It was helpful and interesting for the students as these were new topics. The seminar concluded with a vote of thanks.

WORKSHOP ON OPTICAL COMMUNICATION AND NETWORKING.

Date: 09-07-2018,10-07-2018

A two day workshop on optical communication and networking was conducted on July 09 & 10 2018.The workshop was in collaboration with HRU.The workshop was attended by 20 staff members. The speakers Mr.Nikhil Raj and Mr.Amandeep Singh from HR Universal Systems Inc. explained some basic concepts related to networks. Information on different forms of optical communication and various component designs was elaborated .The session concluded with speakers answering questions regarding various developments and applications of optical communication.

Workshop on MATLAB Simulation for TE students

Date: 14/08/2018

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A one day workshop on "MATLAB Simulation" was conducted on 14/08/2018 in the Room no-216 for the purpose of hands-on experience. The speaker was Mr. PawanKumar Fakatkar (Education Technical Evangelist). 98 students attended the workshop.The session dealt with introduction of mat lab and its application. It was quite helpful for students as it cleared their view on MATLAB. The session was quite interactive as some of the students interacted and participated effectively. The session was concluded with students asking questions

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Workshop on MATLAB for staff

Date: 03/01/2019

A one day workshop on "MATLAB Simulation" was conducted on 03/01/2019 which was organised by Institute of Electronics and Telecommunication Engineering Department in the Room no-216   for the purpose of hands-on experience.The speaker was Mr. Pawankumar Fakatkar

(Education Technical Evangelist). 30 staff attended the workshop.The session dealt with introduction of mat lab and its application . It was quite helpful for staff as it cleared their view on MATLAB. The session was quite interactive as some of the staff interacted and participated effectively.

Seminar on IOT

A seminar on IOT was conducted on 21/02/2019in the Seminar Hall.

The speakers were Mr. karanbahure and Mr. Sushant shinde. 40 students attended the seminar. The topics covered in the seminar were basics of IOT and its applications in today's world. It was quite helpful for students as it cleared their vision on what field they could extend their studies and research on. The session started with the felicitation of the speakers. The seminar was quite interactive as some of the students interacted and participated effectively. The speakers provided effective specifications & details to the questions asked by the students. The session concluded with a vote of thanks.

Seminar on Wireless Network for TE and BE students

Date: 2,3,9&10/02/2019

The seminar on wireless networking was conducted on 2,3,9&10/02/2019 in the roomno.203. The speaker was MR Yogesh Hudale. Over 57 students attended the seminar.
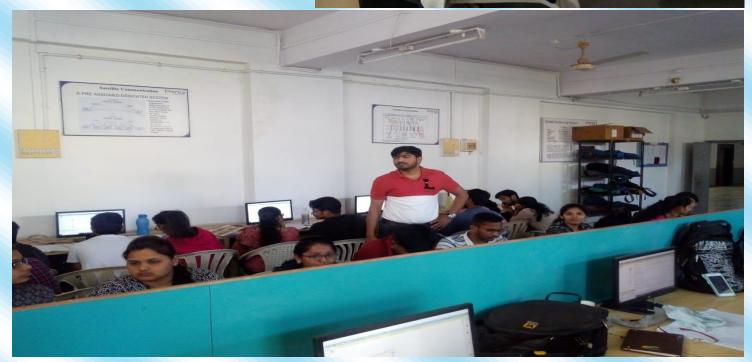

The objective stated for the seminar was to offer application based on cyber security, troubleshooting with the live networks of CISCO Routers & Switches. . Learn and interact with one of the respected authorities in the field of telenetworking . Practical demonstration for each module mentioned in course contents.

Improve your job prospects and get an edge over your counterparts. The session was quite interactive as students interacted and participated effectively. The session was concluded with students asking questions regarding various problems faced by them, to which sir provided effective solutions and finally session concluded with a vote of thanks sir.

OTHER TECHNICAL EVENTS

Industrial visit to "The Lal Bahadur Shastri College of Advancement Maritime Studies and Research Centre".

DATE: -1st October, 2018

The student of 5th semester, section A and B of Electronics and Telecommunication Engineering under the supervision of Dr.J.JDigge, Prof.R.R.Shekokar, Prof.V.N.Moon and Prof. S.A.Tejpal underwent an industrial visit at The 'Lal Bahadur Shastri College' which is a post-sea maritime education and training institute. Through the visit, students got an idea about the radar system. Students were explained the usage of radar system on ships for detecting the obstacles and avoiding collisions using practical equipments. The resource person also gave the students a brief idea about the Plan Position Indicator(PPI) which displays targets present within the radar range. The visit was helpful for the students to understand the working of radar system in ships.

Industrial Visit Report

Date: -18/02/19

Area of Knowledge gain by Students :-GMRT will be a very versatile instrument for investigating a variety of radio astrophysical problems ranging from our nearby Solar system to the edge of the observable Universe.two of its most important astrophysical objectives are:

To detect the highly redshifted spectral line of neutral Hydrogen expected from protoclusters or protogalaxies before they condensed to form galaxies in the early phase of the Universe and

To search for and study rapidly-rotating Pulsars in our galaxy.

Epoch of Galaxy Formation,Pulsars and Neutron Stars,Galactic and Extragalactic Radio Sources

GMRT :-Students are very happy to see GMRT, Khodad. The Giant Metrewave Radio Telescope, located near Pune in India, is an array of thirty fully steerable parabolic radio telescopes of 45 metre diameter, observing at metre wavelengths. It is operated by the National Centre for Radio Astrophysics, a part of the Tata Institute of Fundamental Research.

A center of the school of natural sciences of the TIFR, has set up a unique facility, the Giant Metrewave Radio Telescope for radio astronomical

research at metre wavelengths. GMRT is a very versatile instrument for investigating a variety of radio waves

The Site for GMRT, about 10 km east of Narayangaon town on the Pune-Nasik highway, was selected after an extensive search in many parts of India, considering several important criteria such as low man-made radio noise, availability of good communication, vicinity of industrial, educational and other infrastructure and,a geographical latitude sufficiently north of the geomagnetic equator in order to have a reasonably quiet ionosphere and yet be able to observe a good part of the southern sky as well.
Each year on National Science Day the observatory invites the public and pupils from schools and colleges in the surrounding area to visit the site where they can listen to explanations of radio astronomy, receiver technology and astronomy from the engineers and astronomers who work there.

Hackathon 2019

The event was scheduled at Ramdeobaba College of Engineering and Management, on 2nd and 3rd of March. It was 36hrs (Software Edition) Hackathon organized for all the proud participants who are going to compete with their competitors in the specified Ministry. Three different Ministries were being accommodated at RCOEM.

We had a provoking speech by our Prime Minister Mr. Narendra Modi addressing us with his encouraging words. The Hackathon was split into 3 Judging & Mentoring rounds. On 2nd march, the 1st mentoring section included our knowledge and understanding about our "Problem Statement". In the 1st judging round the judges keenly listened to our solutions and gave their valuable feedback and guidance. The day proceeded with another Mentoring section and the 2nd judging round where they evaluated us according to our endeavour and skills implemented after seeking their guidance.

In the power mentoring round our mentors lead us to pursue our solutions with better efficiency. In the final round we had to submit our software codes and a small presentation for 5mins. Our team worked well in unison and gave our 100% to be a tough competitor. Then the valedictory session started and results were announced & our team was felicitated with a memento as a token of appreciation.

All in all it was a huge learning experience and a competitive environment full of guidance & the eager to learn attitude of students.

FUN
EVENTS

BLIND-TRAILS

Date: 6/3/2019

A very enthusiastic event named "BLIND TRAILS" in collaboration With "AVALON" was conducted on 6th of March in the parking area of our college and in associated classroom. This event was possible due to support of our teachers Mrs .Rupali Shekokar and Mrs. Shailaja Kadam.

Lot of students participated actively in the fun event. A group of two people were allowed to play the game with a entry of Rs.25 per person. The game was all about blind folding one of the partner in the group and the other person used to guide him/her to reach the final destination.

Three levels with increasing difficulty level were kept so that every participant enjoys the event upto their fullest.

The game was quite interactive and stimulating.The prize amount for the winning groupwas Rs.500 for which the students strived very hard. With all the massive participation of all the students and hard work of our volunteers we were able to manage our event successfully.

IETE Day celebration

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FAREWELL 2015-2019 BATCH EXTC DEPARTMENT

18th April: On Thursday, 18th of April at 5pm, a farewell was organised for the 2015-2019 batch of EXTC department. This was organised by third year students of EXTC department in order to say goodbye for one last time to the lovely batch of 2015.

The farewell was initiated by the warm speeches and good words of faculty members of EXTC department. They were present at that moment to bid farewell to their dear students, which was followed by a cake cutting ceremony. The words of HOD madam Mrs. Jyoti Digge printed on the cake was the highlight of the ceremony.

Games were organised to an overwhelming response, students were willingly participating, cheering each other, enjoying to the core. Winners were given surprise gifts, chocolates as a token of love from the juniors. Apart from games there was dance, interactive sessions, which took them back to the memory lane.

The farewell was concluded by a dinner and dessert and too much of dancing. Finally everyone wrote their good wishes and signatures on the board for one last time which was arranged by the team. Everyone was nostalgic and happy.