



THE EXTC TIMES

REFLECTIONS

VOLUME 9

A message from the DEPARTMENT

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Science and Technology has become one of the crucial factors for the development and sustainability of all countries. Today, most countries around the world have focused in building knowledge societies with qualified workforces through science learning and thinking processes. For optics and photonics (OP), it is a fascinating subject for science learning because it inherently composes of art and science at the same time and it surrounds us in our everyday activities. With this awareness, several international and local organizations have offered optics programs, ideas, and processes in teaching optics suitable for technical institutions.

Optics and photonics are technical enablers for many areas of the economy, and dramatic technical advances have had a major impact on daily life. For example, in the last decade, advances in optical fiber communications have permitted a nearly 100-fold increase in the amount of information that can be transmitted from place to place, enabling a society transforming Internet to thrive. As noted in the introduction to Charles Kao's 2009 Nobel Prize lecture on his work in optical fiber communications, "the work has fundamentally transformed the way we live our daily lives." Indeed, optical fiber communications have enabled what Thomas Friedman has called a "flat world." Without optics, the Internet as we know it would not exist.

The technological breakthrough created by the manufacture of optical fibers to process ever-increasing global communications demands has spawned a new discipline: photonics. Many experts think that photonics will drive communications innovation in the 21st century in much the same way that electronics dominated the 20th.

Photonics is the technology of generating, transmitting, and manipulating light. Because light travels much faster than does an electric field in a wire, with less signal loss and faster achievable switching frequencies, it is ideal for transmitting a lot of information over long distances, as with telephone calls or Internet signals. In recent years, photonics has been exploited for medical and biological purposes, opening up the new field of bio photonics. And photonics is now being combined with nanotechnology--the engineering of materials on the atomic scale--resulting in the development of microscopic photonic devices.

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Mrs. Manisha Chattopadhyay
Associate professor,
EXTC Dept.



Achievements

Students secure first runners up at BITS Pilani's Annual Management Fest

Atharva Gupte and Adith Nair from D9A and D9B participated in the annual fest of BITS Pilani's Department of Management, Interface'19. The first round was an online quiz round in which the duo came first all over India. They secured first runners up in one of the events called Phronesis which was based on hardcore business analytics. They competed against more than 20 management teams from colleges across India. They received a cash prize and certificates for the same. Apart from Phronesis they had also qualified for The New Age HR, Bid Maestro and Go Onsite, which were other events testing their operational management and quick thinking skills.



Atharva Gupte and Adith Nair receiving the certificate

Young minds at EXTC striving for a better future

Sai Rane (D9C), Siddhant Satam (D9C), Abhishek Desale (D9C), Phalguni Shendye(D9A) got the second runners up prize in the LBS Championship 2018-19 held on the 2nd of March. They developed a project called the "Prosthetic leg" which is used by the handicapped people. The striking feature of the leg is that it is an electronic leg which can be controlled the motion of the human muscles and costs less than INR 10,000.



L to R: Sai Rane (D9C), Siddhant Satam (D9C), Abhishek Desale (D9C), Phalguni Shendye(D9A)

Achievements

A Hand For The Handicapped

Abhishek Birajdar, Lewin Noronha, Suruchi Singh, and Aishwarya Chourasia (ETRX) stood second in Technovation organized by ISA-VESIT held on 20th March 2019. The team presented their prototype on "Gesture Vocalizer for Deaf and Mute People Interaction". Their aim was to help the deaf and mute people of our society to communicate in an efficient manner. They built a glove equipped with sensors, microcontroller, a bluetooth module which is capable of detecting various hand gestures and conveying the message via the Bluetooth module. Kudos to the team for their excellent innovation and persistent efforts.



In picture: the glove that the team designed

Technology for a better tomorrow

Siddhant Satam from D9C EXTC and team won the first prize in the Hardware division of CRESCENDO project competition organized by Fr. Conceicao Rodrigues College of Engineering, Bandra. They presented the Project "Agri-Fi Copter" in this Exhibition. This Drone is capable of watering in agriculture, firefighting, surveillance, mini-drone deployment, and Payload dropping on 15th of March.



The certificate received by Siddhant Satam

Pitch Perfect

Abhishek Birajdar from D9B stood second in Make A Pitch held during E-Summit'19 by the E-cell. Here the participants had to convince the audience to buy the products that they were advertising about. Abhishek Birajdar spoke about Intelligent Pothole Detector, a device which could be attached to public transport such as buses and every time it detects a pothole a message is sent to the local civic bodies. His impressive speaking and convincing skills helped him grab the second prize.



Abhishek Birajdar(on the right) receiving the prize money from Mr. Amit Singh,the E-Cell Staff In-charge

Achievements

EXTC's very own 'VESIT BOYZ' leave no stone unturned when it comes to management competitions

Aishwarya Patange and Adith Nair once again made VESIT proud as they clinched the third prize at Narsee Monjee Institute of Management Studies, Hyderabad Campus. They had to pass several rounds which tested their management and quick thinking skills. The event NMIPL was conducted by Academium and Finnacle, two of the many councils in NMIMS, Hyderabad. The event involved bidding to form an ideal team and also pitching the team selection to the audience. This tested their thinking skills and presentation skills.



Adith Nair and Aishwarya Patange receiving trophies and goodies from the judges

Shuttling Star Of EXTC



Any curriculum is incomplete without sports. Playing a sport not only helps in concentrating better on academics but also helps in the holistic development of an individual. Keeping that in mind, VESIT, as well as the Department of Electronics and Telecommunications, has always encouraged the importance of sport in a student's life. C.V.Ananya of D9A and Archita Malgaonkar of VESIT participated in ICT's Sportsaga and won the women's badminton doubles title. They received a cash prize and a trophy. The finals were won straight sets after defeating ICT's home team

C.V Ananya with her partner Archita Malgaonkar



UTSAV SHOWCASE

A connoisseur of Dance

Aman More, a name almost synonymous with one of the most talented dancers of VESIT, stood second in Solo Dance. It is no secret that Aman is a very gifted dancer who always takes the stage by storm and leaves the audience in awe. His talent and hard work helped him achieve this incredible feat. Kudos to him!



Aman More during his performance

A Sketch of Brilliance and Elegance

Madhura Karadkar of D9B, a talented student with an inclination towards aesthetics stood first in Portrait Making. The portrait she made had incredible details which required a lot of hard work and patience. We would like her to know that her efforts are appreciated and the EXTC department is quite proud to have her.



Madhura's Potrait



UTSAV SHOWCASE

Dance or a Drill?

The class D9, stood first in the group dance held during Utsav'19. The students choreographed their dance as a tribute to all the fallen soldiers of the Pulwama attack. Through their dance they portrayed a typical day in the life of a soldier and all the sacrifices these brave men make for our country. The team's hard work as well as their sense of patriotism helped them achieve the first position. Kudos to the students of class D9.



The Dance Team of class D9 dances their way off to a victory

Theatre at it's finest

D9 secured the the first position in the group drama held during Utsav'19. The team consisted of 7 talented actors and 2 writers. They performed a psychological thriller about a man with a troubled past and his psychiatrist who convinces him to take strange and questionable paths. The end comes with a chilling twist which left the audience shocked. We often overlook the amount of team efforts and persistence that goes behind the making of a good play. Congratulations to D9 for displaying their brilliant imagination and creativity.



L to R :Prithvi Sharma ,Avikshit Dabholkar and Chirag Bhardwaj



UTSAV SHOWCASE

Weaving their way to the victory

Tanisha Bhola and Isha Bhonge as well as Neelam Chaurasiya and Shreya Swanne from D9 secured the first and third position respectively in 'Sui Dhaaga' where the teams had to make a small embroidery design as the name suggests. Both the teams displayed skilled handiwork which helped them win.



L to R: Isha Bhonge and Tanisha Bhola



L to R: Shreya Swanne, Neelam

An artform like no other

Shreya Swanne and Aishwarya Poojary stood first in rangoli making. They honoured the martyrs of the Pulwama attack through their rangoli. Kudos to their patriotic sentiment as well as their creativity. Meanwhile Sakshi Modi and Anusha Krishnan stood third. They used rice paste as their medium instead of the usual rangoli powder.



L-R: Shreya Swanne, Aishwarya Poojary

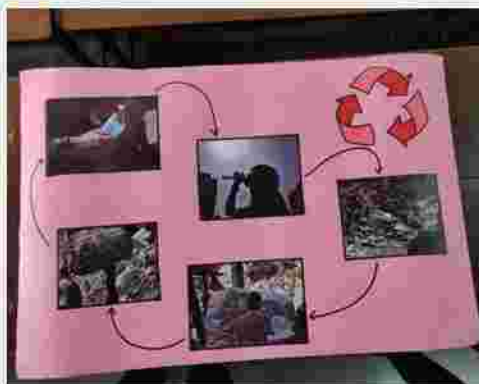


Anusha's and Sakshi's rangoli



UTSAV SHOWCASE

A tale of images



D9 stood first in photostory where each team had to tell a story via five photographs. The team consisted of Aishwarya Patange, Anusha Krishnan, Tejas Doke, and Prithvi Sharma, a mismatch of brilliant storytellers and photographers who can see beauty even in the most mundane things. Their artwork was quite minimalistic focussing on the importance of recycling and how one man's trash is another man's treasure.

The Photostory Chart presented by the team

A Duet of sheer talent and comedy

Avikshit Dabholkar and Rochana Desai of D9B, undoubtedly are few of the talented actors of VESIT. The duo won the first prize in drama duet. They enacted a conversation between a mother and her son. The scene in itself sounds so simple but Avikshit's and Rochana's skills made it so powerful that the audience was moved by it. We wish the both of them good luck for their future.



UTSAV SHOWCASE

The Queen of Melody:

Asawari Tayade, one of the popular vocalist of VESIT, secured the first position in solo singing. She quite easily captivated the minds of the audience with her magical voice. Asawari has won many accolades in various competitions owing to her talent and her gifted voice. We congratulate her and wish her best of luck for her journey ahead.



Asawari Tayade during the event

A musical extravaganza of instruments

Adith Nair and Chaitanya Moregaonkar of D9B won the first prize in Jugalbandi – instrumental. Adith was on the tabla while Chaitanya played the keyboard. Their melody mesmerized the judges and the audience. We would like to congratulate them for their achievement.

SPHURTI SCOREBOARD

Second year EXTC emerges victorious in THROWBALL

A team of three girls from D9 stood first in Throwball. Asawari Tayade, Juhi Ajwani, and C.V. Ananya displayed tremendous teamwork. The trio had participated in various other events during Sphurti and showcased excellent coordination and partnership. The EXTC department would like to congratulate them.

Running towards triumph



Vivekkumar Konda sprinting towards the finishing line

- > Juhi Ajwani from D9A secured the first position in 800m individual race held during Sphurti
- > Bhairavi Sawantdesai of D9B secured the third position in 400 m held during Outdoor Sphurti.
- > Urmila Shinde of D9C secured Third position in for 200m race and long jump on 28th of February and 1st of March.
- > Urmila Shinde, Siddhika Thakur, Mamta Pathare and Sakshi Yendhe from D9C secured third place for relay on first of March.
- > Vivekkumar Konda from D9C EXTC secured first place in 200m race, second place in 100m race and long jump on 28th of February and first of March.

Achievements

Their movements capture the essence of the music!



Shubham Sawant, Sudarshan Gaikwad & Shubham Haryan with their crew

Shubham Sawant from D14A, Sudarshan Gaikwad from D14B and Shubham Haryan and D14C are the members of the prestigious VDC(VESIT Dance Crew).

Recently VDC brought grand success to home. Here are the competitions where VDC imprinted their victory bits

EVENT NAME	VENUE	POSITION
Oculus	SPIT	First
Manzar	ICT	First
Algeria	PCE	Second
Etamax	FCRIT	Second
Aavishkar	KEMH	First
Aakarshan	KJMC	First
Pratishtha	SAKEC	First
Footloose	KJIT	Second
Tatva Moksh Lakshya	SIESGST	First
Ballismus	HBTMC	Second
Aakanksha	TMC	First



Sudarshan Gaikwad holding the trophy



Shubham Sawant on the dance floor

We congratulate the VDC on their achievements and wish them best of luck in their future endeavors.

Achievements

The pen is mightier than the sword!



(Kalyani Lakkanige of D14B)

Shivani Magdum and Kalyani Lakkanige participated in the essay competition held for central and south Mumbai, organized by MP Rahul Shewale on the occasion of Republic day where the topic for the essay was 'Democracy and Me'. Their essays were selected in the top 10. We at the Department are proud of Shivani and Kalyani's achievement and wish them the best of luck for their future endeavors.



(Shivani Magdum of D14A)

Reaping the Results of Hard Work.

Under the mentorship of Mr. Ajinkya Valanjoo and Dr. Saylee Gharge; Shubham Madhavi, Shubham Annigeri, Shreyas Padate, and Sunit Raut won the College Level Looking Beyond the Syllabus competition with their project "Air Pollution Monitoring using Wireless Sensor Network". They also won a cash prize of Rs. 10,000! The finals of the event was held on second March, 2019.



L to R: Shubham Madhavi, Shubham Annigeri, Shreyas Padate, Sunit Raut, Mrs. Shobha Krishnan, Mr. Ajinkya Valanjoo, Dr. Saylee Gharge



L to R: Sunit Raut, Shubham Annigeri, Mr. Ajinkya Valanjoo, Shubham Madhavi, Sonali Dulange

With the same project, Sunit Raut, Shubham Annigeri, Shubham Madhavi and Sonali Dulange made it to the final round in the Engineering category of Aavishkar – a University Level Research Convention, which was conducted in RAIT, Nerul on 23rd December, 2018.

We congratulate the teams for their concerted effort!

Achievements

A Game of Skill and Brains - Codeo!

Tinkerer's Lab organized Codeo- a game where every contestant's coding skills were put to the test. The event consisted of 3 rounds, the first two rounds requiring the contestant to solve a minimum number of problem statements to qualify to the next round. In the final round, whoever solved the most problem statements in the next hour, wins! Following are the programmers who smashed these obstacles to clench their spot in the top three:

Yash Marathe (D14B) – Second
Sunit Raut (D14B) – Third

Congratulations to them for their efforts!

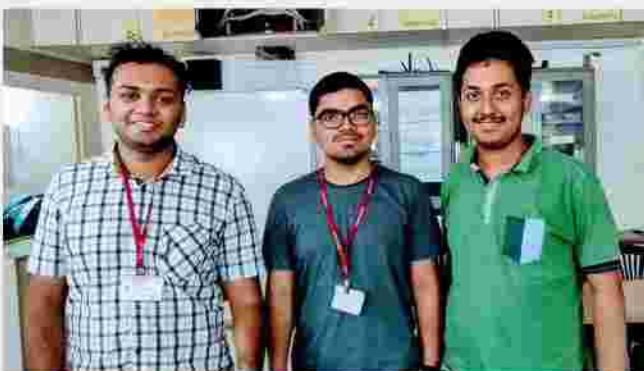


Sunit Raut



Yash Marathe

Comic Frenzy!



L to R: Raj Anchan, Shivam Singh(D14B), Rishav Roy

Shivam Singh(D14B), along with Rishav Roy and Raj Anchan from D13, secured 3rd position in COM-FLICT; a fun event organized by IEEE, where each team had to use their knowledge of DC and Marvel Universe to win its sub events. It was held on 28th and 29th January, 2019

Achievements

Sharpshooting to Win!

Atharva Joshi, Tejas Wani, Nikhil Patil, Aman Yadav, and Arun Pillai of D14B secured second position in CS:GO Online Tournament, organized by CSI-VESIT on March 11, 2019.



L to R: Atharva Joshi, Tejas Wani, Nikhil Patil, Aman Yadav and Arun Pillai

When Speed and Knowledge go Hand-in-Hand!



L to R: Aruna Shaju K, Riya Thomas, Kalyani Lakkanige

Aruna Shaju K, Kalyani Lakkanige, and Riya Thomas from D14B secured second position in TECH-TRIX— an event where one's technical knowledge is put to the test through a series of events, with the finals being a quiz. The event was organised by ISTE over 4th and 5th February, 2019.

Achievements

Vishal Laungani: The Winning Machine

When it comes to participating in sports, Vishal Laungani is an unstoppable force. With his zest for participating in Marathons and Lawn Tennis, he has clinched numerous events all over Mumbai. Following is the list of events that he has participated in this time:

1. First rank in Lawn Tennis Doubles at Conquer 18 (intercollegiate sports festival held at NMIMS MPSTME)
2. Second rank in Lawn Tennis Doubles at Enthusia 2018 (Nation Level Sports Fest of VJTI)
3. Quarterfinalist in Lawn Tennis Singles at Skream 2019 (KJ Somaiya)
4. Second rank in Lawn Tennis Doubles at Conquer '19 (NMIMS MPSTME)
5. Lawn Tennis Singles Semi-Finalist at Skream '18 (National Level Sports Festival, KJ Somaiya)
6. First rank in 5Km run held by Singhania School 2018
7. Participated in Tennis Premier League



Vishal Laungani

Kudos to him for his enthusiasm, and we hope he continues to win more!

All about 'Rtr.Sancho'



Sanchit Agarwala (D14A) with one the participants of Challenging Challenges

Sanchit Agarwala is an active member of Rotaract Club of Deonar. He has posts of Professional Development Director & Joint Community Service Director. He has orchestrated a lot of events for the club which have helped in the welfare of the society and the community alike. Some of the events include 'Xpressions', An Inter School Art Competition, Talent Fiesta, A platform for individuals with disability, Challenging Challenges, A Disability Sensitization Workshop, Speak Up 1.0 and 2.0 and Brandomania.

Achievements

B.E. STUDENTS AWARDED AT SNTD

A team consisting of four B.E. students from our department – Amogh Rane, Kajal Raut, Karan Chotlani, Shubhangi Gupta under the guidance of Mrs. Rasika Naik presented their final year project at SNTD college. Their project named 'Smart Visitor Detector' was awarded as one of the top five projects in the competition. The main motive behind this project was to design a new, efficient and an interactive security system. This new system consists of an ultrasonic sensor which detects the presence of a visitor. After detection, a picture of the visitor is clicked. If the picture is of an unknown person it is uploaded on a local server. The system comes with an app which will collect the necessary information and the user will be notified of it. If the user feels threatened by the visitor he/she can raise an alarm and notify the police. We, here at the EXTC department, would like to congratulate the four of them for their excellent innovation.

We wish them the best of luck for their future endeavours.



L to R: Shubhangi Gupta, Kajal Raut, Mrs. Rasika Naik, Amogh Rane and Karan Chotlani



UTSAV SHOWCASE

Duet of melody by 'Akshata and Aruna'

Song is a way to reach divine peace, isn't it? Both of these talented girls of TE with different voice textures brought a magical homogeneity in their duet hit and secured second position in Utsav duet singing competition. We would like to hear more and more from you surely!

Dumsies and Pixies

Pooja Gupta and team was a perfect unit of actors and movie search-engine brains ! They got first rank followed by the BE teams of Amey and Abhishek.

Mehendi artists of EXTC!



Mehendi by Namrata Ramchandani

Mehendi is one of those finest arts where one's skill, artistic vision and most importantly the patience are tested. The whole one hour during Mehendi competition, Namrata Ramchandani of Fourth Year and Pooja Gupta of Third Year maintained these parameters and their beautiful art gave them first and second position respectively.



Mehendi by Pooja Gupta

UTSAV SHOWCASE

Bringing back the Nostalgia :

Cartoon characters are something that have been an integral part of our childhood and drawing them has been our favourite past time. Mohnish Niduvaje, Debojyoti Deb and Venkatesh Mudaliar brought their favourite cartoon character on paper in 'Toonmania'. Mohnish drew a 'Goku-Black mix' securing the first rank, Debojyoti's sketch of the father & son duo of 'Goku-Gohan' won second prize for him and Venkatesh's toon character sketch of the Naruto star 'Itachi Uchiha' secured third position. The Trio showed that an engineer's pencil is not just to draw polar plots and bode plots but, create such amazing sketches.



Sketch by Mohnish Niduvaje



Sketch by Debojyoti Deb



Sketch by Venkatesh Mudaliar

Minimalism at its best!



Nail Art. by Sonal Lalwani

Namrata Ramchandani(D19) & Sonal Lalwani(D14) drew the beautiful picture; not on canvas but on the nail! A centimeter long nail. It's not just about brushing the nail with colour but it's beautifying the nail with combination of colours. They secured first and second position respectively.



Nail Art by Namrata Ramchandani

UTSAV SHOWCASE

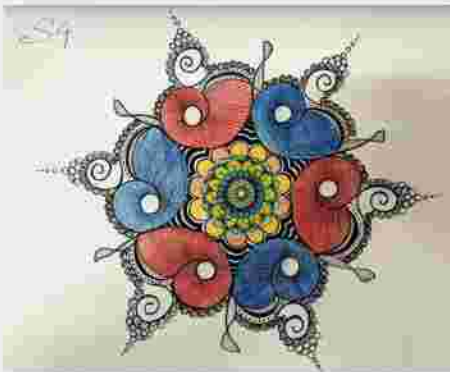
Vibrant Colours, Smiling Faces!

Apeksha Yadav & Namrata Ramchandani both from BE, coloured their friend's face and made it to look like a story character has arrived in VESIT! They got first and second rank respectively.



Creativity of Namrata Ramchandani of D19

Mandala making!



The Mandal made by Namrata Ramchandani

Mandala is the traditional beauty of our art in India. When it came to putting our traditions on paper and doodling them, Namrata Ramchandani came first in this competition. Kudos to her ability of doodling and sheer talent.

Antakshari, a train of songs

Prachi Jain(D14) and team with the treasure of songs they had, won the antakshari competition!

Rangoli: An artform like no other



Rangoli by Namrata Ramchandani

Namrata Ramchandani, with her excellent sense of shading and colour combination, brought a thought in her mind on the floor with a magic inside her fingers. The wonderful rangoli by her won the first prize.

UTSAV SHOWCASE

Telling a story through music!

Our most experienced buddies, the BE gang of EXTC, interweaved the scenes using thread of music and created a best video in utsav's music video competition. No doubt, they won the first prize.

A bold step towards change!

Talking about periods or menstruation is still considered a taboo in many parts of India. So, to make their actions speak about it instead of words, a group of 7 students from D14C had created a short film about it. They presented their creation in 2019 Utsav's Short Film competition and won the first prize along with many positive regards.



*Standing L to R: Kirti Mane, Reshma Bhise, Rutushree Gade, Samruddhi Patil
Sitting L to R: Shashibhushan Raj, Asad Khan, Ajay Ugale*

The magic of theater!

Movies are always scripted and every wrong shot are rectified, but it is theatre where you bring a character as live as yourself. Doing mistakes, adding their own touch up and bringing their act live is what, a group from D14C has done in 2019 Utsav's Drama competition. Spontaneous act and well executed lines has got them the first prize in the event.



*Standing L to R: Pratiksha, Prajkta, Shraddha, Kirti, Rutushree, Bhavna, Shraddha, Samrudhi, Amruta
Sitting L to R: Shailesh, Rohit, Chetan, Akshay, Viren, Abhishek*

SPHURTI SCOREBOARD

Crossing the Line, One Win at a Time!

D14 has secured second place overall in Spurthi, which was organized over February-March 2019. Listed below are the details of the students' victories that contributed to this result. Congratulations to all of them for their stellar performance!



L-R: Ganesh Kudtarkar, Shantanu Pimpalkar, Vishal Laungani, S Raahul



L-R: Garima Dwivedi, Vishal Laungani, Anushka Chauhan, Yash Aher

- Shantanu Pimpalkar, Vishal Laungani secured the first position in Table Tennis
- S. Raahul, Ganesh Kudtarkar, Shantanu Pimpalkar, Vishal Laungani relayed towards the finishing line securing the first position for 4x100m Relay
- Vishal Laungani secured a first place in 800m, 1500m , while a second place in Table Tennis
- Shantanu Pimpalkar came first in 100m race and Long Jump
- Anushka Chauhan secured second position in Table Tennis
- Mrunal Tambat secured second position in Long Jump
- Garima Dwivedi came second in 800 metres individual

SPHURTI SCOREBOARD



(L to R , Top Row): Vivek Aswal, Pratik Pathak, Nikhil Wankhede, Vishal Laungani, Ganesh Kudtarkar, Rohit Doraiswamy, Yash Aher, Sunit Raut

(L to R, Bottom Row): Ganesh More, Harish Muthalagan, Shantanu Pimpalkar Himanshu Gosavi, Shubham Madhavi

The football team of D14 secured the second place. The team members are as follows:

Vivek Aswal, Pratik Pathak, Nikhil Wankhede, Vishal Laungani, Ganesh Kudtarkar, Rohit Doraiswamy, Yash Aher, Sunit Raut, Shubham Madhavi, Himanshu Gosavi, Shantanu Pimpalkar, Harish Muthalagan, Ganesh More

Student Publication

- > Manasi Berde, Pradeep Gurbani, Ranjeetkumar Yadav, Jatin Dhumal, "Robot For High Voltage Transmission Line Inspection", International Journal of Scientific and Research Publications, Volume 9, Issue 3, March 2019, ISSN 2250-3153.
- > Ruchita Bhatade, Gauri Jadhav, Aditya Kadam, Sahil Bhaladar, "Road Maintenance and Restoration using Intelligent Pothole Filler", International Journal of Innovative Research in Science, Engineering & Technology, Volume 8, Issue 1, January 2019, 10.15680/IJIRSET.2019.0801003 .
- > Wilson Alen, Akshay Bhopani, Kalpesh Kolhe, Sakshi Potdar, presented a paper on "Development of Advances smart Electric Vehicle using Hybrid Electric Storage", RACEM 4th International Conference held on 29 th and 30 th March, 2019.
- > Siddharth Nandargi, Neha Pote, Tejal Nanaware, Kavya Parag, presented a paper on "Ear Biometric Techniques: A Comparative Approach", RACEM 4 th International Conference held on 29 th and 30 th March, 2019.



DEPARTMENTAL activities

Industrial Visit to Bengaluru



Glimpse of Industrial Visit to Bengaluru

Our department organized a week long Industrial Visit to ISRO (Indian Space Research Organization) at Bengaluru on 1st January, 2019. Mr. Ajinkya Valanjoo, Mr. Gaurav Tawde, Mrs. Anuradha Jadiya, Mrs. Nusrat Ansari and Mrs. Monali Chaudhary were the teachers who accompanied the students in whole trip. Students got information about India's contribution in the field of space research through a visit to ISRO, where they got a chance to know the process behind making of Chandrayan I & II. A visit to 'JVS Electronics' mainly focused on Protection, Automation & Control. Students got practical knowledge about the industry work. Students also visited HAL (Hindustan Aeronautics Limited) heritage museum which elaborated on the history of Indian Aircrafts.

Also, Visvesvaraya Technological Museum visit amused the students where they saw science and fun go hand in hand. Besides all these, students got refreshed on visiting Botanical garden and Tipu Sultan's summer palace.

Industrial Visit to SAMEER, IIT Bombay campus



Students with faculties at SAMEER entrance

A group of 66 students of Third Year, including four students from M.E. visited Society for Applied Microwave Electronics Engineering & Research (SAMEER), IIT Bombay Campus 28th February, 2019. The group was accompanied by three faculty members Dr. C.D. Rawat, Mrs. Manisha Chattopadhyay & Mr. Sanjay Mirchandani from EXTC Department.

SAMEER was celebrating Open House Day on the occasion of National Science Day on the same day and so all colleges across Mumbai were invited. Presenters at SAMEER interacted with the students and satisfied their curious minds. Later, visitors were given goodies like band and a bookmark which were relating the National Science Day.

Industrial visit to BSNL, Yoor, Thane



Students and faculty at BSNL, Yoor

The industrial visit was held on 27th February, 2019. It was a one day training which emphasized on brief knowledge on all topics of satellite communication with 2.5 hour theory seminar and 2.5 hour practical training. Faculty members who accompanied the batch of 60 students were Mr. Ajinkya Valanjoo, Mr. Gaurav Tawde, Mrs. Manisha Chattopadhyay & Mrs. Saylee Gharge.

During this session students saw antenna's of various sizes along with their practical applications.. Students also visited the antenna mounted on top of the infrastructure of BSNL Earth station. They were also shown the microwave components which are used to transport the signal from the base-station to the antenna. Students were also briefed with the various elements of the earth station along with the process to control antenna.

Skill Enhancement Lectures

>Dr.V.M. Joshi, Adjunct Prof., R & D forum of VESIT, on 26th February, 2019, delivered a talk on the subject Electronic Devices and Circuits-II. The topics of Amplifiers, Signal Generators, MOSFETS, Filters, Op-amp, Power amplifiers were thoroughly explained. This subject serves as a prerequisite for elective subject 'Microelectronics' in higher semester.

>Mr. Hitesh Chaudhari, Scientific officer from BARC delivered a SEL on the subject Antenna Radio Wave Propagation on 5th March, 2019. He emphasized on the topic of Electromagnetic Welding.



SEL on Antenna Radiation and Wave Propagation

STTP on Green IoT

> ISTE approved Short Term Training Program (STTP) on 'Green Internet of Things (IoT)' was organized by Department of Electronics and Telecommunication in collaboration with Capgemini from 2nd January to 8th January, 2019. The program was inaugurated on 2nd January, 2019.



Inauguration of Program

L to R: Mrs. Shoba Krishnan, Mr. Manish Tamhankar, Dr. R. K. Kulkarni, Dr. Nadir Charniya, Mr. Nagananda)

> Some introductory and hands-on sessions on 2nd and 3rd January were taken by Dr. Nadir Charniya. Mr. Manish Tamhankar and Mr. Manish Parulekar, both Senior Architect from Capgemini, introduced the application based technical terms regarding IoT. Mr. Niket Raut, from Capgemini, with his team coordinated with hands-on session.



Keynote address



Hand-on session

> On 4th January, 2019 Dr. Y.S Rao, the Vice-Principal and Dean of R & D from Sardar Patel Institute of Technology, Andheri delivered his talk on IoT and Energy Management using unconventional energy resources. Dr. Saurabh Mehta, vidyalankar Institute of Technology, Wadala, Mumbai delivered the session of IoT and Applications on 5th January, 2019. He introduced IoT hardware modules like ESP8266 and Arduino and Alexa.

> Capgemini sponsored field visit at their center on 7th January, where they presented their award winning project for disaster management. On the last day, 8th January, Mr. Yogesh Pingle, Asst. Professor, Information Technology Department, Vidyavardhini College of Engineering & Technology, Vasai, Mumbai conducted hands-on on Raspberry-Pi and demonstrate his ongoing projects on agriculture using IoT. At the end of both the days, Dr. Nadir Charniya conducted some practical sessions demonstrating free Thingspeak cloud services.



Field visit to Capgemini center and certificate distribution program

> Workshop concluded by distribution of certificates and mementos by our distinguished alumni, Mr. Amit Rambhia, CEO of Panache Digilife limited. Mumbai. Participants gave their valuable feedback. Head of Department, Mrs. Shoba Krishnan, addressed the participants and dignitaries with a vote of thanks.

Tinkerers' Lab Activities



> Linux, OpenCV, Python Raspberry-Pi Workshop

In Collaboration with Tinkerers' Lab, EXTC Dept and Research Forum, 3 day workshop was conducted by Dr. Nadir Charniya, from 22th February to 25th February, 2019. 32 students participated in this workshop who were introduced to softwares like OpenCV, Python and Raspberry-Pi over the Linux operating system.



Dr. Nadir Charniya explaining the topic to the participants

> Coding competition

Tinkerers lab EXTC organized 'Codeo', a coding competition for S.E and T.E students on 29th March, 2019 under the guidance of Mr. Mrugendra Vasmatkar. Purpose of this competition was to give a platform to the students to show their coding skills. Participants were allowed to use any one of the coding language like MATLAB, SCILAB, C, C++ or PYTHON. The competition consisted of 3 rounds and the difficulty level of each round was higher than the previous one. 17 students participated from S.E and T.E., of which Samarth Sewlani from D9B grabbed the first position by solving all questions in the given time. Yash Marathe and Sunit Raut from D14B grabbed second and third positions respectively. This competition was one of the important milestones for students as well as for Tinkerers' lab.

Alumni Interactions

> Alumni talk on Financial Crisis

Mr. Jayesh Kirange, an alumnus of 2004 batch of our very own EXTC department, took an interactive session on 12th March 2019. He is now faculty at IIMs and has given lectures in New York University (NYU) also. During the interaction with third year EXTC students, main idea was to give students a glimpse of financial crisis and its reasons along with the introduction to management field. Terms such as Equity, IPO, Dividend, Repo Rate, etc. were explained in layman's language, hence sounded really interesting.

He also described how an Indian economist Raghuram Rajan's research paper affected U.S.A assembly. He emphasized and encouraged students to never give up on learning and be thirsty for knowledge.

Though Mr. Jayesh Kirange has already aced the path of success, being grounded, he has come up with 'Nitya-Sarathi', a non profitable NGO working for upliftment of underprivileged students.



Alumni Mr. Jayesh Kirange interacting with student

Degree distribution ceremony

> Department of EXTC felt so proud to honor their students with a degree of ' Bachelor of Engineering' in a grand ceremony held on 16th February, 2019. All the glory of story started with arrival of chief guest around 1pm. After a greet through lunch, Procession was carried out from Swami Vivekananda statue to Auditorium.

> Ceremony began with lightening of lamp and Saraswati vandana followed by the University song. Mrs. Shoba Krishnan, Head of EXTC Department ,warmly welcomed the chief guest along with her brief introduction. Chief guest Ms. Anita Karnik, AVP, SBI Capital Assets, and also an alumnus of the EXTC department. Chief guest and other dignitaries on the dias distributed the degree certificates and wishing the students all the very best for their future.

> Last but not the least ,our departmental exam controller Dr. C. D. Rawat sir gave vote of thanks and the ceremony ended with the National Anthem.



Degree distribution ceremony of EXTC Department

Faculty Achievements

> Dr. Chandan Singh Rawat :

A project group of BE students Tejal Nanaware, Siddharth Nandargi, Kavya Parag, Neha Pote under the guidance of Dr. Chandan Singh Rawat sir presented their technical paper on 'Ear Biometric Techniques: A Comparative Approach' at RACEM 4th International Conference held on 30th March, 2019 and 31st March, 2019. Total of 114 teams participated in this competition. Row of panelist was there to review the presentation and ask questions on it. Panelist team included industry experts as well as professors of the institute. The team secured first prize for 'Best Paper Presentation'. The submitted research paper will be forwarded to JETIR journal as well as to International Journal of Science and Research for further publication.

> Dr. Ranjan Bala Jain :

Dr. Ranjan Bala Jain received Accenture Faculty Achiever Star Award on 11th March 2019 in Accenture Diversity Connect Program and celebration of 15th International Women's Day. This award is presented for contribution towards well being of the society exemplified the culture of equality in their environment.



Dr. Ranjan Bala Jain receiving the Accenture Faculty Achiever Star Award

> **Minor Research Grant Proposals:**

The following projects received Minor Research Grants from Mumbai University :

1. "Air Pollution Monitoring System Using WSN" , under the guidance of Mr. Ajinkya in the domain of Wireless Sensor Networks.
2. "Smart Vehicle for physically challenged people", under the guidance of Mrs. Himali Patel in Embedded Systems domain.
3. "Infant Incubator Intelligent Control System", under the guidance of Mrs. Neeta Chavan in IoT domain.
4. "Development of advanced smart hybrid energy storage system for electric vehicles" under guidance of Mr. Shobhit Khandare in Mechatronics domain

> **Orientation Programs Attended By Faculty:**

1. The Orientation Program of Computer Communications And Networks was attended by Ms. Nikita Ramrakhiani, organised by A. P. Shah College of Engineering ,Thane on 11th January, 2019.
2. Mr. Gaurav Tawde , Mrs. Pallavi Gangurde and Mr. Shobhit Khandare attended the Orientation Program of Microcontroller And Applications/TE/SEM-VI organised by A. P. Shah College of Engineering ,Thane on 17th January, 2019.
3. The Orientation Program of Image Processing and Machine Vision was Organised and delivered by Dr. Ramesh Kulkarni and Mr. Mrugendra Vasmatkar on 10th January, 2019 which was attended by faculties of various engineering colleges affiliated to Mumbai University.



The Orientation Program of Image Processing and Machine Vision

Faculty Research Publication

>Mrs. Shobha Krishnan presented the paper on "Analysis Of Malicious Behaviour Of Black Hole And Rushing Attack In MANET", at IEEE sponsored 3rd Biennial International Conference on Nascent Technologies in Engineering, FrCIt, Vashi, 4th-5th of Jan 2019.

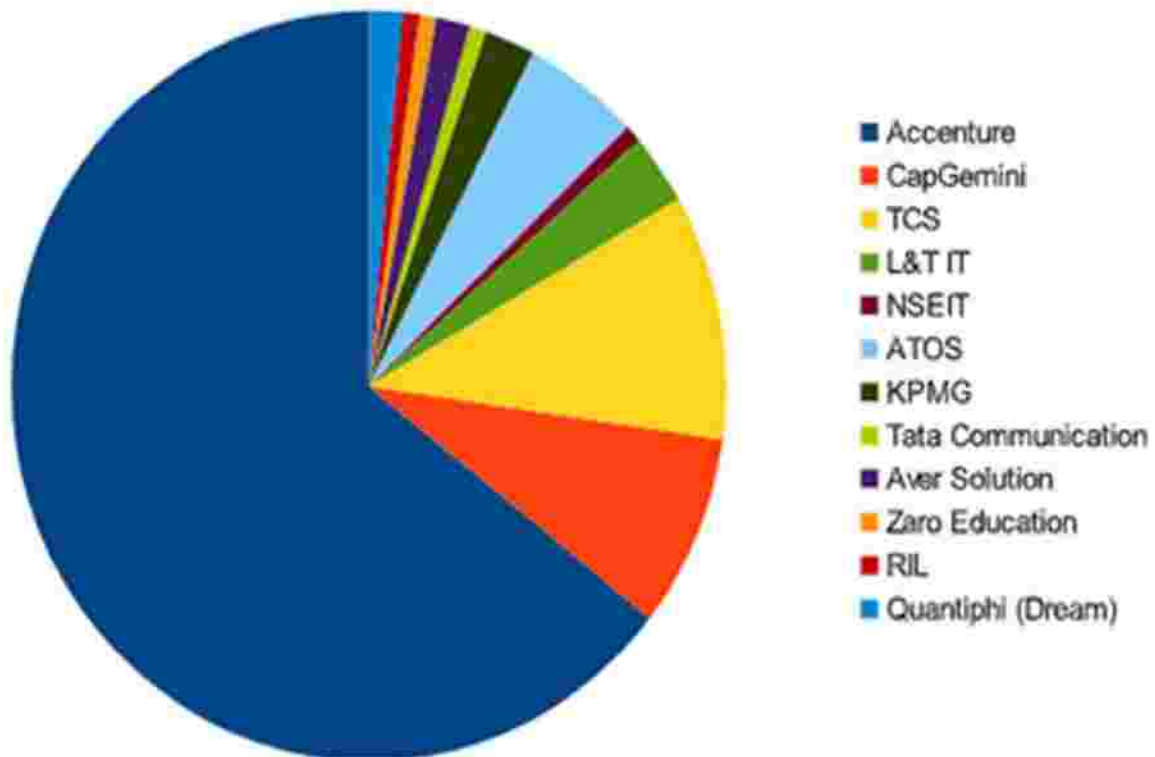
>Dr.Ranjan Bala Jain presented the paper on "Analysis On Stability And Scalability Enhancement in WSN" at IEEE sponsored 3rd Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2019), FrCIt, Vashi, 4th-5th of Jan 2019.

>Mrs. Rasika B. Naik presented the paper on "Smart Visitor Detector" and "Interactive Bus System for visually impaired" at International Conference on Recent Advances and Challenges in Engineering and Management (RACEM-2019).

>Mr. Gaurav Tawde presented the paper on "Face Recognition Home Security Using Raspberry Pi and IoT" at International Conference on Recent Advances and Challenges in Engineering and Management (RACEM-2019).

Placement cell Activities

- A three days Network Associate Training Program was conducted by Mr.Yogesh Hudale, Director, Telenetworks Technologies Ltd. organized by EXTC Department, Placement Cell, from 22nd to 25th January, 2019.
- The placement cell GRIN (GET Ready for Industries) of the department of EXTC has conducted various activities in the Academic year, 2016-17 and 2017-18 for the students (batch 2015-2019) to prepare for the placement process.
- These activities include online Mock Aptitude Tests (MAT), various sessions on Campus Placement: A winning Strategies, Share it Sessions, Finishing Schools and IT for Telecommunication. As a result, 132 students have got offer from various companies like Accenture, L&T IT, CapGemini, Quantiphi, TCS, ATOS , NSEIT, KPMG,RIL etc.



Other noticeable

● Internship program :

Winter INTERNSHIP program was conducted during 17th December, 2018 - 12th January, 2019. The main area of focus was Digital Design, Wireless Networks, Control System, Embedded System

● Competitive Exams for Academic Year 2018-19 :

Final Year EXTC students have appeared for various competitive exams as follows:

Exam	No. of Students appeared
GATE	42
TOFEL	10
CAT	13
GRE	20
MHCET	11

● NPTEL Certification Programs :

1.388 students have registered for NPTEL course this semester from EXTC Department for various courses like: Microprocessors & Microcontrollers, Analog Circuits, etc.

2.16 faculty members from EXTC Department have registered for various NPTEL courses like: Microprocessors & Microcontrollers, Analog Circuits, Modern Digital Communication Techniques, Signals and Systems, Introduction to Research, Enhancing Soft skills and personality, Better Spoken English, DBMS, Cryptography and Network Security, Introduction to coding theory, etc.

● Scholarships awarded this semester:

Total 76 students applied for the scholarships provided by VESIT out of which 34 from EXTC department were eligible for scholarships.

Name of the scholarship	No of students	Scholarship Awarded (Rs.)
Vivekanand jyoti Scholarship	1	25000
Student Aid Scholarship	3	15000
Suman Tulsiani trust scholarship	30	7000 to 10000



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