



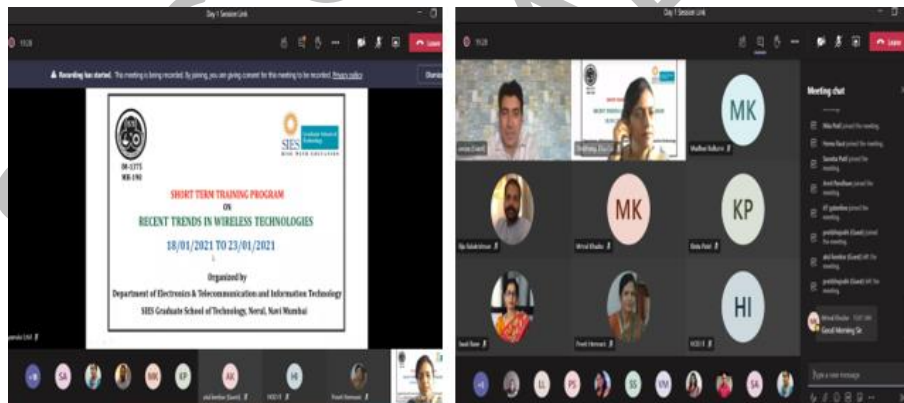
**DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION**  
**Annual Report 2020-21**

**1. Academic achievements:**

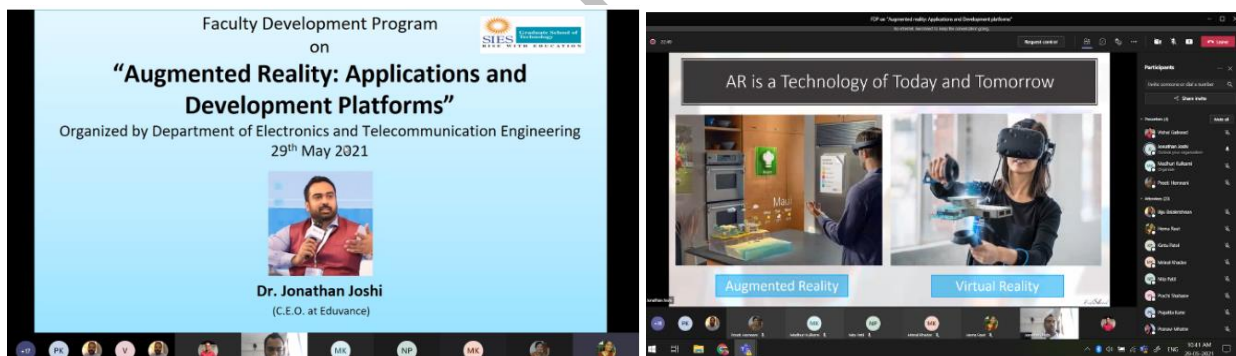
- Received NBA accreditation for three years.

**2. Department Initiatives:**

- Organized faculty development program on “Use of Games & Simulations in Teaching, by Mr Srikanth Shiralkar, Tata Consultancy Services ” on 10/9/2020.
- Organized faculty development program on "Internet of Things” under IQAC by senior expert Mr. Prasad Ghag from Tata Consultancy Services on 6/11/2020.
- Organized ISTE approved one-week STTP on "Recent Trends in Wireless Technologies" during 18/12/2021 to 23/1/2021.



- Organized faculty development program on "Augmented reality: Applications and Development platforms”. Session was conducted by Dr. Jonathan Joshi, C.E.O. at Eduvance ,on 29/5/2021.



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- Signed MoU with AutoNxt Mumbai on 25/2/2021
- Signed MoU with BSNL , Pune on 26/1/2020.
- Signed MoU with Mega-Tech on 18/3/2021.

### 3.Academic / technical achievements of students:

- Mr. Sahil Pednekar, Mr.Swapnil Vishwakarma , Prathamesh Thakur and Sakshi Shetty, winner of national level video making competition at DBIT , Mumbai on 23/7/2020.
- Mr. Harsh Agrawal , winner of IDEATHON 2020 BY PCE, PANVEL held on 26/7/2020.
- Mr. Cibin Chandrashekhar , Winner- National Debate Competition ,IGEN 2020 by IEEE Hyderabad on 10/10/2020
- Mr. Cibin Chandrashekhar secured 3rd position in a National Level competition in Excursion by IEEE MBIT, Araria, Bihar on 05/11/2020
- Mr. Harsh Agrawal, Winner : Poster presentation competition on COVID19-ROLE OF ICT by IEEE Computer Society, Hyderabad Section.
- Mr. Atharv Karnik , Ms.Diksha Adake received promising paper award to the paper "Low cost compact theft detection system using MPU-6050 and Blynk IoT platform ,presented in IEEE Bombay Section Signature conference , December IBSSC-2020
- Mr. Abhishek Joshi and Mr. Cibin Chadrasekhar , winner-of Spacecraft Service Website ,Exodus Front-End Web Dev Challenge organized by IEEE Manipal
- Ms. Aditi Rao ,winner-Restaurant Website , Exodus Front-End Web Dev Challenge organized by IEEE Manipal .
- Mr. Cibin Chandrashekhar got first prize in TECHBATE : An inter-collegiate Technical Debate Competition for Tech Enthusiasts , Organized by K C College of Engg, Thane on 13/4/2021.
- Mr. Harsh Agrawal , Runner up in IDEATE-business plan competition by EDC SIESGST.
- Mr. Cibin Chandrashekhar, Mr. Jagjit Sing and Mr. Karthik Iyer ,runner up in IEEE INTERNATIONAL CONGRESS BY IEEE BANGLADESH, Debate competition.



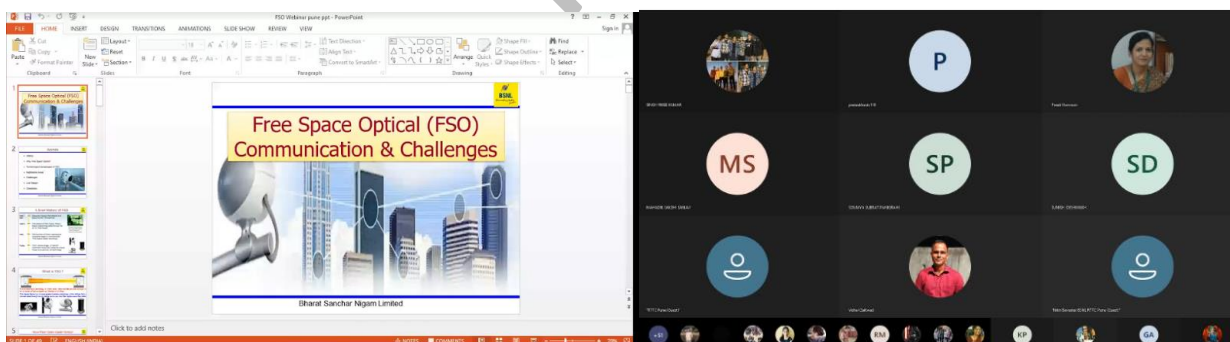
- Mr. Harsh Agrawal secured third prize in technical poster presentation competition by DBIT, Mumbai.
- Mr. Aaryan kumbhar , winner of Dot Your Design: Graphic Design Poster competition at Don Bosco College of Engg, Goa held on 22/5/2021.
- Mr. Tushar Ninawe , secured second prize in Dot Your Design: Graphic Design Poster competition at Don Bosco College of Engg, Goa held on 22/5/2021.
- Ms. Diksha Adke , Mr. Atharva Karnik , Mr. Honey Burman and Dheeraj ,runner up in IEEE SIGHT's Competition for Budding Onnovators- Proposal Writing and Presentation Competition.

## 4. Faculty achievements/Research grants/Paper Publications:

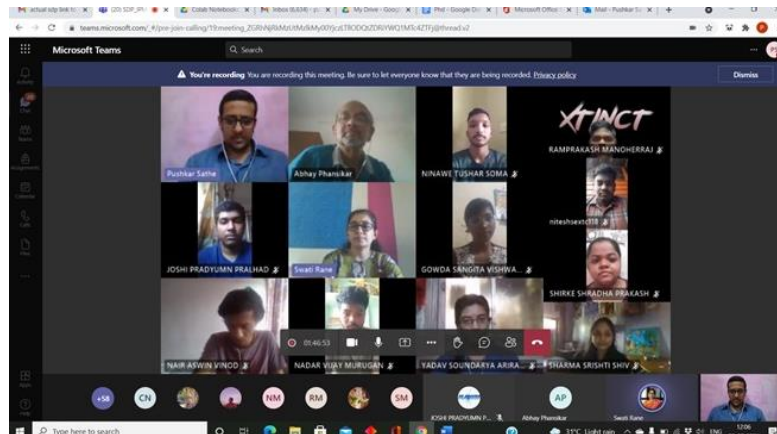
- Dr. Preeti Hemnani published paper titled “Design of probe for NQR/NMR detection “ in Scopus indexed International Journal of Electrical & Computer Engineering in August 2020.
- Dr. Preeti Hemnani , published thesis titled “ Design and development of FGPA based Nuclear quadrupole resonance Spectrometer “ on Shodhaganga@INFLIBNET center..
- Dr. Shubhangi Kharche , published thesis titled "Performance analysis of 6LoWPANs IPv6 over low power wireless personal area network" on Shodhaganga@INFLIBNET center.
- Ms.Hema Raut published paper titled “Fifth Generation Antennas: A Comprehensive Review of Design and Performance Enhancement Techniques” in IEEE Access open access journal September 2020.
- Dr. Shubhangi Kharche , published paper titled “ Optimizing network lifetime and QoS in 6LoWPANs using deep neural networks in “ Computer and Electrical Engineering ,Elsevier in October 2020.
- Mr. Pushkar Sathe and team, received a promising paper award to the paper "Low-cost compact theft detection system using MPU-6050 and Blynk IoT platform, presented in IEEE Bombay Section Signature conference IBSSC-2020 during 4/12/2020 to 6/12/2020.
- Mr. Biju Balkrishnan , worked as a judge for pre-evaluation phase-1, proposal writing and presentation competition for budding innovators organized by IEEE Bombay section
- Ms. Pranavi Mhatre received copyrights (GOV of India) on title " H shape Hybrid ring Power Divider in March 2021.

## 6. Seminars/workshops organised by departments:

- Organized seminar on “Virtualization and 5G “. The session was be conducted by Mr. Binay Singh from Teleman 19/12/2020.
- Organized Seminar on "Free Space Optic”. This session was conducted by Mr. R.S.Saklikar and Mr. Nitin Bavaskar, Sub Divisional Engineer, RTTC, BSNL Pune. On 20/4/2021.



- Organized and conducted student development program Image processing and Machine learning using Python during 21/6/2021 to 3/7/2021.SDP was conducted by Pushkar Sathe, Swati Rane, Shyamala Mathi and experts.



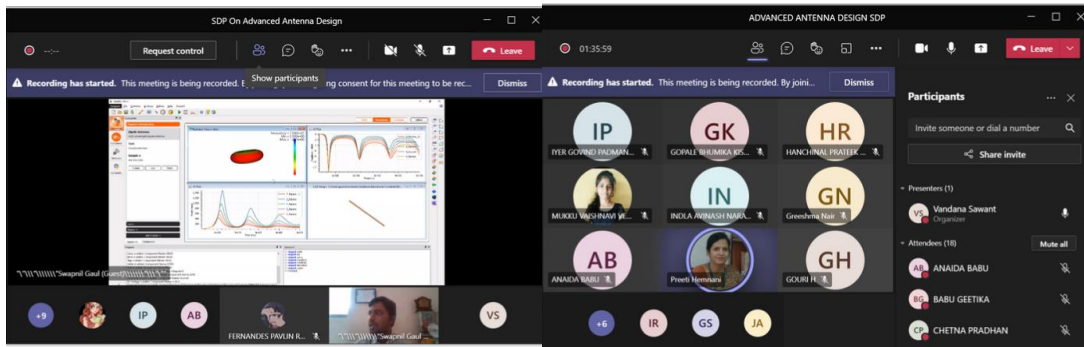
- Organized and conducted student development program on Embedded system and IoT during 28/6/2021 to 3/7/2021.SDP was conducted by Kintu Patel , Vaishali Mangrulkar , Pratibha Joshi and experts .



- Organized and conducted student development program on Advanced Antenna Design during 28/6/2021 to 3/7/2021. SDP was conducted by Vandana Sawant , Kintu Patel , Dr.Shubhangi Kharche and experts.

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- Organized expert talk on Embedded system by Mr. Hannan Satopay , IEEE Bombay Section TPAC Secretary on 28/6/2021 in student development program of Embedded system and IoT .
- Organized expert talk on Applications of Embedded system and IoT in Industry by Mr. Abhay Phansikar , past chairman of IEEE Bombay Section on 2/7/2021 in student development program of Embedded system and IoT.
- Organized expert talk on Designing solutions using machine learning by Mr. Abhay Phansikar , past chairman of IEEE Bombay Section on 2/7/2021 in student development program IP and ML using python.
- Organized expert talk on Introduction to NLP by Mr. Prasanna Biswas , (Masters from IIT Bombay) on 3/7/2021 in student development program IP and ML using python.
- Organized expert talk on Antenna design and latest application of Antenna by Dr. K.P. Ray, Professor, Dean & Head, Electronics Engineering and CSE Dept., Defence Institute of Advanced Technology Pune on 29/6/2021 in student development program Advanced Antenna Design.
- Organized expert talk on Wire antenna design and development of microstrip network by Mr. Swapnil Gaul, Founder of Numergion (TaraNG) on 2/7/2021 in student development program of Advanced Antenna Design.

## 7 . Students Professional Body IEEE

### IEEE Achievements:

- IEEE SIESGST branch received Rs 27244 from IEEE based on v tools events submission (submission of events and meetings report through VTool site) and number of IEEE Membership.
- IEEE Student Branch received \$500 for IEEE Activities under IEEE MTTs Chapter.
- IEEE SIESGST Student Branch received “IEEE Regional Exemplary Student Branch Award 2020” For exemplary performance as an active IEEE Student Branch offering technical programs, activities, professional networking opportunities that enable members in building critical skills.
- IEEE Student Branch received \$100 being winner as best at telling the story of industry efforts.

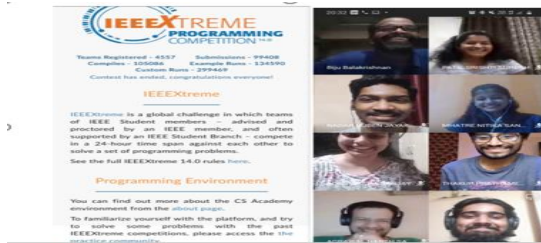
### IEEE Events:

- IEEE SIESGST organized “ DESIGNIT” :Technical digital poster making competition on the topic “To society through technology” during 20/6/2020 to 3/7/2020.
- IEEE SIESGST organized national level poster competition on 7/7/2020 to 8/7/2020.
- IEEE day was celebrated on 10/10/2020

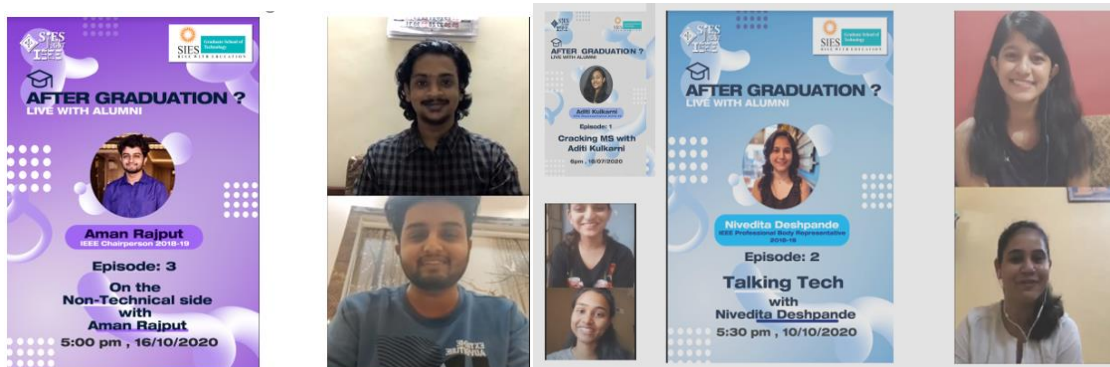
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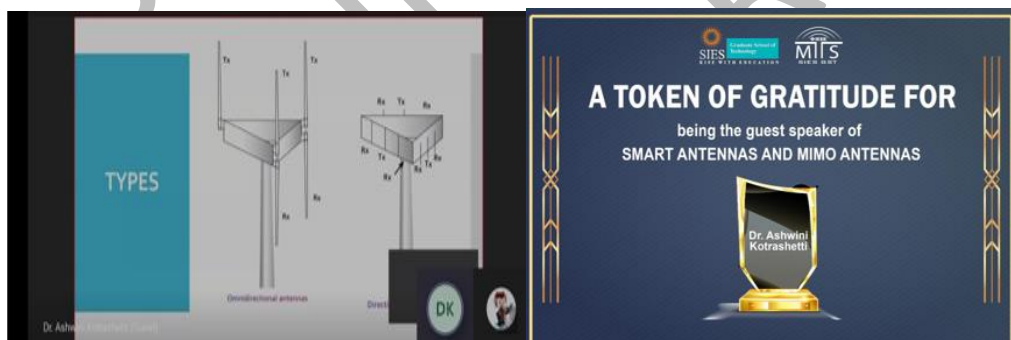
- IEEE SIESGST organized Xtreme 14.0 coding competition on 24/10/2020.



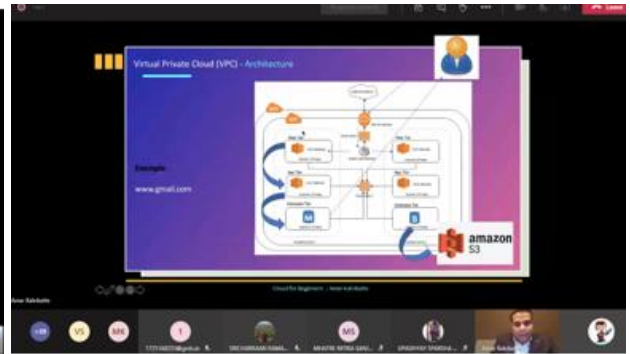
- IEEE Student branch organized Instagram live with Alumni-Nivedita Deshpande , Aditi Kulkarni and Aman Rajput in October 2020.



- IEEE SIESGST student branch organized webinar under SKEP(Skill and Knowledge Enhancement Program) on 27/11/2020 by Dr. Ashwini Kotrashetty , Vice Chair , IEEE Bombay Section.



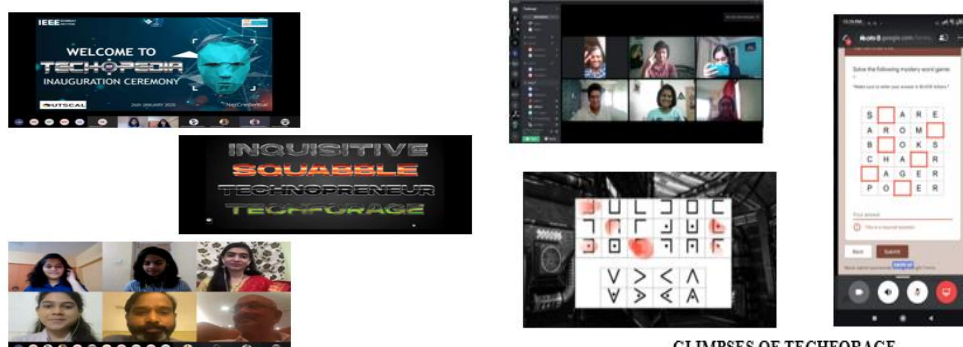
- IEEE SIESGST student branch organized webinar series on Machine Learning and Deep Learning , cloud computing and LateX on 31/10/2020 , 1/11/2020 and 8/11/2021.



- IEEE SIESGST student branch released weekly tech news bulletin “Engima -Tech”  
 On 11/10/2020 , 18/10/2020,25/10/2020 , 1/11/2020 , 8/11/2020, 15/11/2020 and 29/11/2020.



- IEEE SIESGST and CSI SIESGST organized coding competition “Inspect Element 1.0” held between 26 /11/2020 to 4/12/2020.
- IEEE organized Techopedia 9.0, annual technical festival from 24/12/2021 To 31/1/2021.



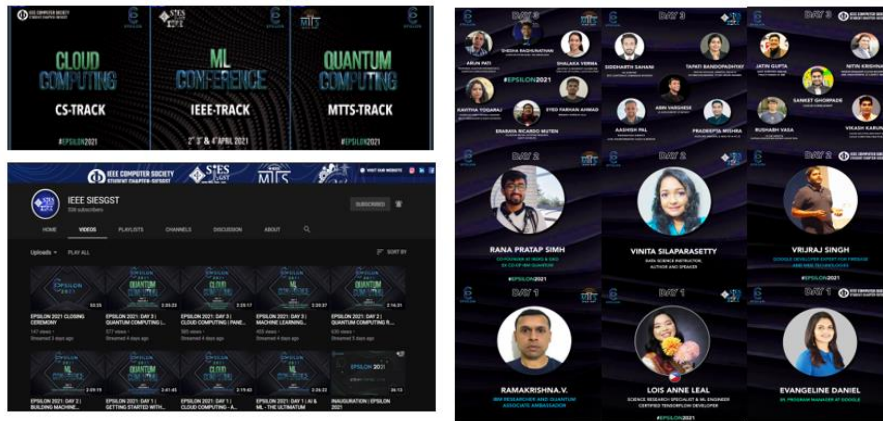
**GLIMPSES OF TECHFORAGE**

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- IEEE SIESGST organized 3-day International level Symposium with 3 tracks (ML, Cloud Computing and Quantum Computing) “EPSILON 2021”.



- IEEE SIESGST organized BrainHertz- Podcast Series in the month of March and April 2021.

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