



Sandip Foundation's
SANDIP INSTITUTE OF ENGINEERING AND MANAGEMENT
Department of Electronics And Telecommunication



E-SANCHAR

2021-22

Volume 2
Issue 2



"Electronics and Telecommunication The Spark that Ignites the Future."



Sandip Foundation's **SANDIP INSTITUTE OF ENGINEERING AND MANAGEMENT**

Approved by AICTE, New Delhi & Govt. of Maharashtra.
Affiliated to Savitribai Phule Pune University, Pune



SANDIP
FOUNDATION

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION

•About SIEM•



Sandip Institute of Engineering and Management (SIEM) is located in the scenic, eco-friendly and conducive-to-study campus at an elevation off the Trimbak Road (Mahiravani, Nasik) leading to one of the twelve renowned pilgrimages of jyotirlingas known as Trimbakeshwar (abode of Lord Shiva) at the foot hills of Brahmagiri mountain ranges. SIEM is approved by All India Council for Technical Education, New Delhi Government of India and affiliated to Savitribai Phule University of Pune. SIEM is committed to imparting quality education in an atmosphere that will ensure that its students are confident, self motivated and industry-ready. Towards this goal, we are giving importance to qualified and experienced faculty for effective teaching-learning process, equipping our laboratories with best-in-class machines and instrument and developing overall personality of our students (with emphasis on strengthening the fundamentals of subjects, ability to work as a team and good communication skill). There is a well formulated regime with a blend of Theoretical learning and practical experience. This enables the faculty to guide the students to learn tomorrow, today.



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•About Department•

Electronics & Telecommunication (E&TC) Engineering

The Electronics & Telecommunication (E&TC) Engineering Department at SIEM, affiliated with Savitribai Phule Pune University, Pune, sustains and strengthens its teaching and learning program by adopting a comprehensive student-centric approach. This approach is designed to add significant value to the learner in an integrated manner through conceptual and interactive teaching, active lab sessions, seminars, projects, and independent study. The department features state-of-the-art laboratories equipped with the latest technology and tools, allowing students to gain hands-on experience in various aspects of electronics and telecommunication engineering. Additionally, a strong emphasis is placed on research and development (R&D), encouraging students to explore new ideas, innovations, and technological advancements. Through various projects and research initiatives, students are nurtured to become future leaders in the field. The department also collaborates with leading companies and organizations in the electronics and telecommunication sectors to provide students with opportunities for internships, industrial visits, value added programs and guest lectures from industry experts. These interactions help students gain valuable insights into the industry and stay updated with the latest developments. Recognizing the importance of continuous growth and development, the department encourages its faculty members to attend workshops, seminars, conferences, and training programs for the continual upgrading of their knowledge and skills. The experienced faculty members are dedicated to nurturing the future technocrats of the nation, ensuring that students receive a well-rounded education that prepares them for the dynamic field of electronics and telecommunication engineering.

Editor-in-chief

Mr. Mosam K. Sangole

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Mr. Karan Uagle

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DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION

• Vision of the Institute •

We at SIEM aspire to be a globally recognized institute that delivers a world class education to outstanding intellectuals by nurturing and grooming their interests, creative abilities and thrusts to acquire a life-long learning so as to imbibe values of their commitment towards society.

• Mission of the Institute •

We at SIEM shall strive continuously,

- To inculcate and imbibe knowledge of cutting-edge technologies and its implementation for solving real life problems in a conducive environment.
- To collaborate with national and international institutes/industries/ universities of repute for sustainable growth through team work.
- To motivate and retain highly skilled and knowledgeable individuals, whose creativity and interest in teaching upholds to achieve desired goals.
- To provide a dedicated platform to cater the needs of individuals and Inspire them for their intellectual growth and character building.

To enable the students to achieve excellence in the chosen fields and to share the responsibilities of citizenship and service in a disciplined manner

• Vision of the Department •

To excel in the field of Electronics and Telecommunication Engineering so as to create competent professionals focusing on the needs of industry and society with professional ethics.

• Mission of the Department •

M1.: To empower competent graduates for applying knowledge and skill sets to face global challenges and societal needs by achieving excellence in innovation.



M2.: To provide a platform for budding graduates to apply and solve real life problems using cutting edge technologies through their creative abilities aimed at fulfilling the needs of society and industry.

M3: To cultivate ethical values in graduates for their Internationalization.

Hon'ble Chairman's Message



Sandip Foundation was established in 2005 with a vision of creating an education system from which the leaders of tomorrow emerge. Since our inception we have been aware of our strengths, motives and goals which we have set out to achieve. When we embarked on this journey, all we had was a dream and the tools of foresight and strategy. We combined these forces to pave a path of growth towards excellence and merit. Today it is our endeavor to be the most competitive institution in the country with emphasis on efficiency in everyday operations, reliability for students and thrust on discovery and development of new technologies. We are an organization that combines the latest developments in the field of education with our scientific and operational skills to create an environment which nurtures and encourages the aspirations of students. It is our aim that the combination of these factors along with the state of the art infrastructure and a dedicated teaching staff will provide an impetus to the Indian educational system as a whole. Our first campus is set up at Nashik,





Maharashtra where the college building is spread across a 200 acre area. Keeping pace with the times, the campus is Wi-Fi enabled. To ensure the complete educational experience, laboratories with the latest tools and machinery are provided along with a comprehensive library with RFID technology, a computer centre with complete internet connectivity a wholesome cafeteria, all set up in a green environment to give our students the most healthy and pleasant experience as they embark and pursue their professional goals.

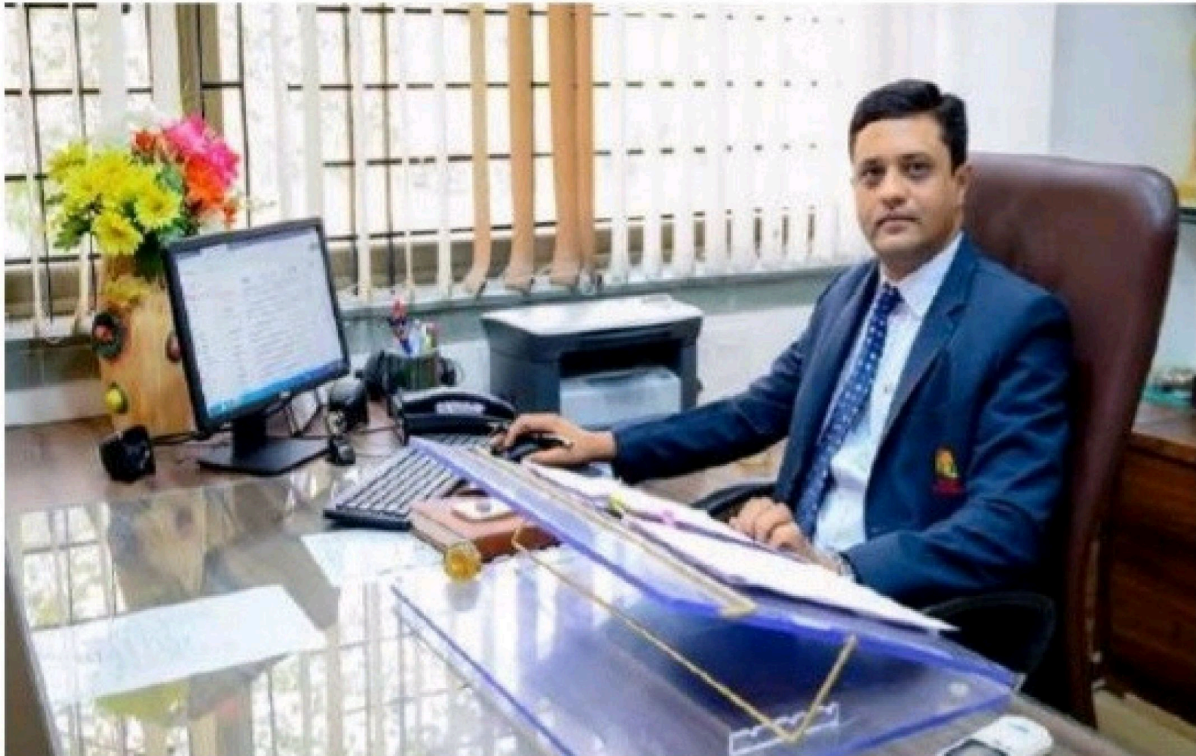
What does an International quality Education system consist of? That is the question we asked ourselves when we set out to build this Foundation. India as a country has no problem with unemployment but there are institutions which churn out a large number of unemployable students. Should we consider ourselves an exception to this? The search for the answer has resulted in the faculty and staff to come up with innovative methods in teaching to construct new knowledge in the classroom. Our motto is to always give our students the best of what is happening in and around so that they are always at the cutting edge of academics the world over

The cultural aspect has always been a strong-point of our College as it has an acknowledged role in molding the personality, teaching soft-skills, developing leadership and management abilities and strengthening the EQ. Extra-curricular activities, participation in sports and other cultural activities has now become universal contributing to all-round formation which is much needed in the world today. Finally we look to create an Alumnus for inspiration and support so that our students have wonderful role models to emulate. Our faculty and students remain focused on a quality of education that is not just a college degree but a way of life.

**Dr. Sandipkumar Jha,
Hon'ble Chairman,
Sandip Foundation**





Principal Message



Dear Students,

On behalf of the Management, Faculty and Staff of SIEM, it is an honor to welcome you to this prestigious institution. We at SIEM are strongly committed to provide quality technical education to our students. Now what does quality consist of? Is it mere state-of-the-art laboratories and a well-furnished classroom? Or does it also involve the proactive participation of teachers and students alike? These are some of the questions we asked ourselves before embarking on this journey. In the ensuing years, our Faculty took up this task seriously, of trying to understand what international quality means and of taking the effort to make this a reality. Of course, we laid emphasis on educational infrastructure with laboratories, libraries and other resources for teaching. Nevertheless, the core of our efforts centered on applying innovative methods to our teaching-learning and evaluation, in spite of the large numbers we deal with. If our students do not pick up the skills of analysis and critical thinking, all the memorization and reproduction they may achieve in this Institution will be in vain in the global culture and



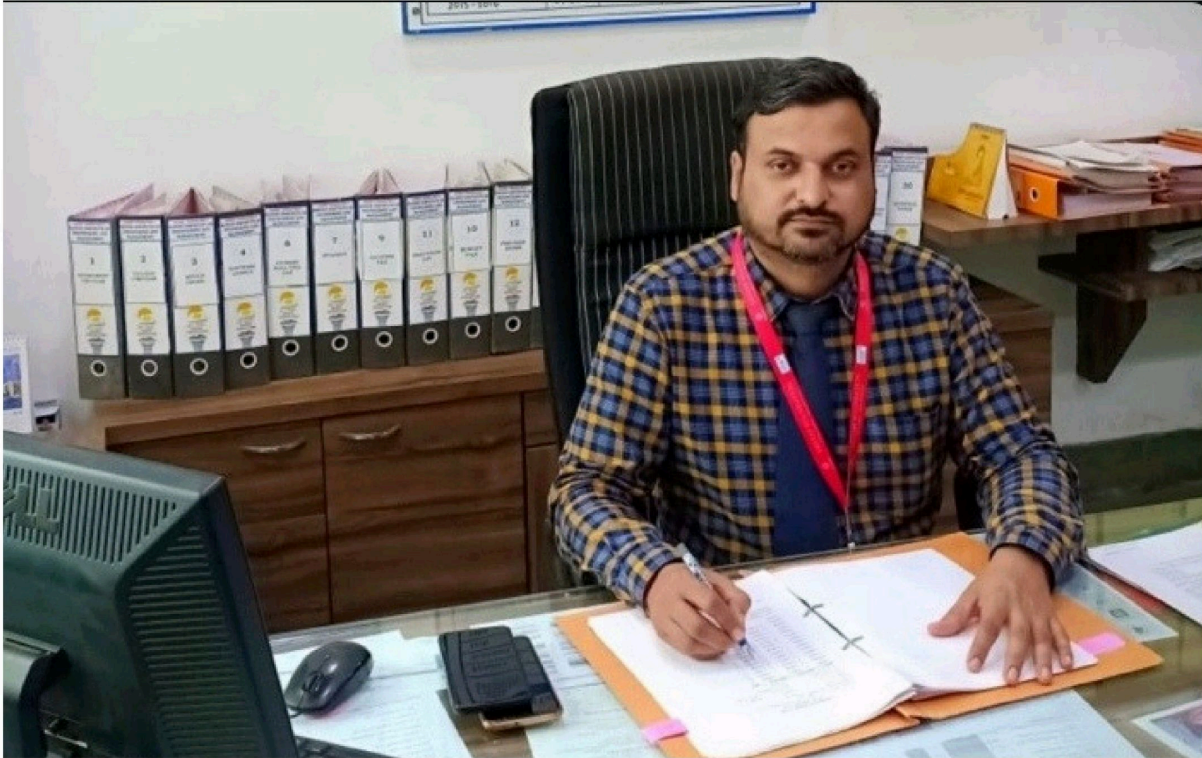
economy. It is our belief that every student has an unending storehouse of talent and when nurtured properly, we can help bring out the best in that individual.

The approach of the Institution is holistic. It has called for learning methods that are more demanding on both the professor and the student. It has led to a renewed emphasis on research for faculty and on initiating a taste for research among students. The monitoring of this process by the Heads of the Departments and by the Academic Administrators, in order to encourage good practices and to evaluate their effectiveness, gives hope of a renewal of academic culture on campus. I want to congratulate you and wish you the best on this journey. It is our assurance that at SIEM you will emerge as tomorrow's leader, today

Dr. D. P. Patil,
Principal,
Sandip Institute of Engineering and Management



HOD Message



Electronics aims at making the life of human beings comfortable. Communication connects people and brings them together. The vast application of electronics and the rapid advancements in the field of communications makes the study of this branch a covered option. The department's teaching areas include network, microprocessor, communications, signal and image processing, pattern recognition, electronic circuits, system and control, electronics, VLSI, CAD, parallel and distributed processing and wireless communication. Keeping in line with fast changing technological developments, the department has well designed, laboratories with modern equipment like Spectrum Analyzer, Logic Analyzer, DSO and advanced software like Proteus, Cadence, to incorporate all advancements in existing and emerging technologies with state-of-the-art laboratories complement the high standards set by the competitive syllabus and nurture the inclination of the students towards research and development.

(Prof. Yogesh R. Risodkar)
Head (E&TC)



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DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION

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TECHNOPILIA - 2K22

SANDIP FOUNDATION'S
Sandip Institute of Engineering & Management, Nashik
Department of Electronics & Telecommunication Engineering

Tech fest
Technophilia - 2K22

POSTER COMPETITION
Topics: 1) Women Empowerment, 2) Smart India, 3) Global Warming, 4) COVID-19, 5) Indian Culture, 6) Artificial Intelligence, 7) Future of Education & technology experiments, 8) Others.
Entry Fee: ₹300/- Per Team
Co-ordinator: 1) Jyoti Chaudhari: 9822000682, 2) Akshay Gaud: 9822000624

SHORT FILM MAKING
Topics: 1) Respect women, 2) Jackdaws (DANDI), 3) Class of Powder, 4) Nitron.
Instructions: 1) Video: 10-15, 2) Duration: Min. 3 min & Max. 30 min, 3) File Format: MP4 or AVI, 4) Lang.: Marathi, Hindi, English.
Entry Fee: ₹50/- Per Person
Co-ordinator: 1) Poo Kulkarni: 9822000624, 2) Pratik Gaud: 9822000622

ONE MINUTE GAME
Games: 1) Dot game using button, 2) Speed answer, 3) Trivia game, 4) Head to head, 5) Find the chocolate from box.
Entry Fee: ₹50/- Per Person
Co-ordinator: 1) Ashish Bhatkar: 7200000079, 2) Anshul Bhatkar: 9822000622

MOCK INTERVIEW (each 40 seats)
Topics: 1) Be present with resume/CV and your introduction, 2) Be present & answer to some / Logical and / Analytical / Reasoning, 3) Communication skills, 4) Technical / Informal skills / Negotiation skills, 5) Presence of mind, 6) Proper knowledge of what you have mentioned in your resume.
Entry Fee: ₹50/- Per Person
Co-ordinator: 1) Anshul Bhatkar: 7200000079, 2) Pratik Gaud: 9822000622, 3) Anshul Bhatkar: 9822000622, 4) Anshul Bhatkar: 9822000622

HAUNTED CRICKET
Instructions: A team of 5 members.
Entry Fee: ₹50/- Per Team
Co-ordinator: 1) Akshay Gaud: 9822000622, 2) Akshay Gaud: 9822000622

CARROM
Instructions: "Pillar Pickle".
Entry Fee: ₹50/- Per Person
Co-ordinator: 1) Anshul Bhatkar: 7200000079, 2) Anshul Bhatkar: 9822000622

FRIENDS FOREVER
Games: 1) Dot game, 2) Trivia game, 3) Trivia game, 4) Trivia game.
Entry Fee: ₹50/- Per Person
Co-ordinator: 1) Anshul Bhatkar: 7200000079, 2) Anshul Bhatkar: 9822000622

PROJECT COMPETITION
Instructions: 1) Team size: 2 or 3 members, 2) Technical projects.
Entry Fee: ₹50/- Per Team
Co-ordinator: 1) Anshul Bhatkar: 7200000079, 2) Anshul Bhatkar: 9822000622

EXCITING PRIZES
Co-ordinator: Student Association of E&TC (SAET): 8421386662, 917266268

STUDENT CO-ORDINATORS
Karan Ugate: 7996003448, Sumit Mehra: 7862731033, Pratik Chavhan: 7748007203, Anshul Gaware: 7827328079, Priya Khatwari: 8308284568, Gauri Mishra: 9922468098, Niraj Khatwari: 7940917230, Pooja Anand: 7035711942

Event Date
22nd & 23rd April, 2022

Venue: Department Of E&TC Engineering, SANDIP FOUNDATION'S, Sandip Institute of Engineering & Management, Nashik

2. Event Date: 22

nd & 23rd April, 2022

3. Event Duration: 10:00 AM to 05:00 PM

4. Event Venue: E&TC Department, SIEM, Nashik

5. Event Coordinator(s): Event Coordinator Prof. Bharat Deore, Staff Co-ordinators, Student Members of S.A.E.T., Student Co-ordinators & Volunteers

6. Expected Audience: Honorable Chief Guests, Respected Principal Sir, Faculty members of E&TC Department, Students.

7. Total No. of Participants: 250

8. Event Objectives & Outcomes:

To give a platform to our young budding engineers for showcasing their innovative ideas and creating a competitive atmosphere for the holistic development of students.

Create an opportunity for students to enhance their leadership and organizational skills. To imbibe the culture of multi-institute competition among students To facilitate Student Industry interaction To provide an occasion of department students to nurture their Management skills and leadership.

Outcome: - The event simply received an overwhelming response from the participants and was a huge success.

TECHFEST INAUGURATION CEREMEONY



PROJECT COMPETITION EVENT



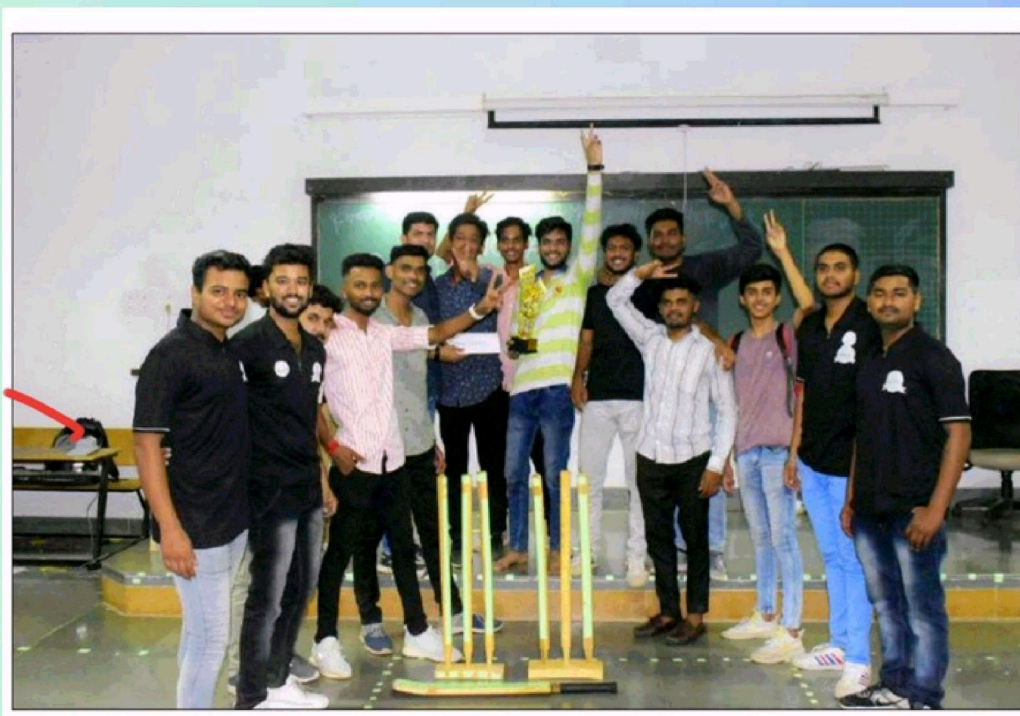
POSTER COMPETITION EVENT



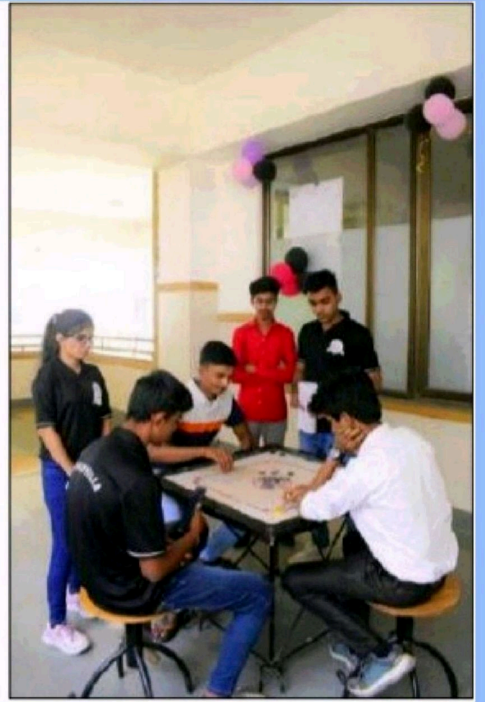
MOCK INTERVIEW



HAUNTED CRICKET



CARROM



FRIENDS FOREVER



ONE MINUTE GAME



SHORT FILM MAKING



AIMA INDEX – 2022 EXHIBITION

Event Title: AIMA NDEX – 2022 EXHIBITION VISIT

2. Event Date: 20

th March, 2022 (Sunday)

3. Event Venue: Dongre Vasti Gruh Maidan, Nashik

4. Event Coordinator(s): Respected Prof. Mr. Y. R. Risodkar (H.O.D. E&TC),
Prof. Mr. Amit kumar Mishra (Industrial Visit Coordinator)

5. Expected Audience: Students from S.E. & T.E. of E&TC Department.

6. Event Objectives & Outcomes:

1) The four-day international exhibition 'AIMA Index-2022' organized by the Ambad Industries and Manufacturers Association (AIMA) at the Dongre Vasti Gruh Ground, which promotes the innovative art of the future as well as the emerging entrepreneurs, was launched on 18th of March. AIMA President Nikhil Panchal and AIMA Index Chairman Dhananjay Bele were on the toe's to make the event successful.



Toppers Of BE Students Felicitation



Event Title: Felicitation of Toppers & placed students from BE batch 2021-2022

Event Date: 5th May 2022

Event Conduction Duration: 2 hrs (11.00 AM - 1.00 PM)

Event Venue: - Civil Seminar Hall, SIEM, Sandip Foundation, Nashik

Participants – SE, TE & BE students from E & TC Department

Name of Faculty coordinator: Prof. Indrajit Sonawane, Prof.Aakash Shrivastav, Prof. Yogesh Risodkar and all

faculty from E&TC department

Objectives:

Objective of this program is to congratulate last year placed students and toppers from SE, TE class. On this occasion Training & Placement Officer of Sandip Foundation Prof. Indrajit encourage students on how they should look very seriously towards their placements in last year. Also, how hard as well as soft skills plays important roll in dream job. HOD of E&TC department Prof. Risodkar mentor students that how students play very important role in overall development of department & academics. Placed students from last year shared their thoughts & views regarding their placement journey. Aim of this event is to give vision to TE & SE students about their placement activity and to gear up for the same right now.

Educational Opportunities Abroad by Akshay Study Abroad



Event Title: Educational Opportunities Abroad by Akshay Study Abroad

Event Date: 25th March 2022

Event Conduction Duration: 2 hrs (11.00 AM - 1.00 PM)

Event Venue: - TE E&TC Classroom, SIEM, Sandip Foundation, Nashik

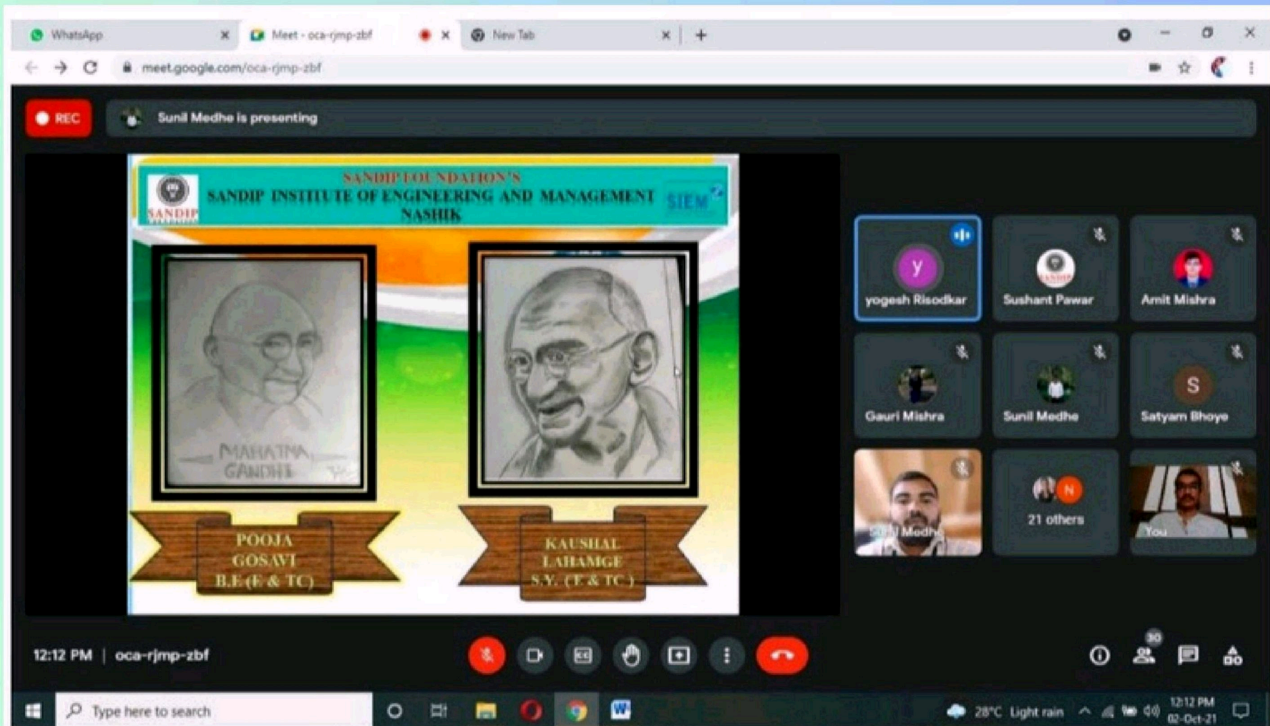
Participants – SE, TE students of all Department

Name of coordinator: Students Association of E&TC

Objectives:

Objective of this expert talk is to Gain a deeper knowledge and understanding of other countries cultures and their environments. Develop different perspectives in regard to other nations. Develop increased capacity to analyze issues with appreciation for disparate viewpoints and acquire increased respect and tolerance of differences – all contributing to a citizenry better able to succeed in the 21st century. Re-examine their values & priorities to become better contributors to the global community. Develop skills & academics & professional abilities applicable to use in region & global context.

Mahatma Gandhi Jayanti - 2021



Event Title: MAHATMA GANDHI JAYANTI

2. Event Date: 2

nd October, 2021 (Saturday)

3. Event Conduction Duration: 1:00 hr (11:00 AM to 12:00 PM)

4. Event Venue: Virtual (Google Meet)

5. Event Coordinator(s): Student Members of S.A.E.T.

6. Expected Audience: Respected Principal Sir, Faculty members of E&TC Dept., Students.

7. Judging Panel: Prof. Mr. Y. R. Risodkar (HOD – E&TC)

8. Event Objectives & Outcomes:

1) To recall the important contributions of Gandhiji to India's liberation struggle and independence movement, To commemorate his lessons that aim to improve our surroundings, the city, and, eventually, the country; The Students Association of Electronics & Telecommunication celebrated the 152nd Birth Anniversary of Mahatma Gandhi – The Father of Nation.

Republic Day Celebration - 2022

The image shows a promotional poster for Sandip Foundation's Sandip Institute of Engineering & Management (SIEM) Department of Electronics & Telecommunication. The poster is titled 'Presents' and features a central graphic with the Indian national flag and the text 'HAPPY REPUBLIC DAY INDIA'. It lists activities: 'Food Mela Competition', 'Student Speech's', and 'Dedicated to Real Hero's'. It also mentions 'We are going to celebrate the 73rd Republic Day Virtually' and 'So please Actively Participate in this Event!'. Below the poster is a screenshot of a Google Meet interface. The meeting title is 'SAET SIEM is presenting'. The main video feed shows a 'WELCOME' message from 'SAET - SIEM' presented by 'SANDIP FOUNDATION'S SANDIP INSTITUTE OF ENGINEERING AND MANAGEMENT NASHIK'. The meeting grid shows several participants, including 'Amit Mishra', 'Indrajit Sonawane...', 'Priya Jagtap', 'principal SIEM', and '28 others'.

Event Title: REPUBLIC DAY CELEBRATION

2. Event Date: 26th January, 2022 (Wednesday)

3. Event Conduction Duration: 1:30 hrs (11:00 AM to 12:30 PM)

4. Event Venue: Virtual (Google Meet)

5. Event Coordinator(s): Student Members of S.A.E.T.

6. Expected Audience: Honorable Dr. Dipak P. Patil (Principal – SIEM), Respected Prof. Mr. Yogesh R. Risodkar (HOD – E&TC), Respected TPO Mr. Indrajit Sonawane, Mr. Lalit Patil (Coordinator - T&P cell), Faculty members of E&TC Dept., Students.

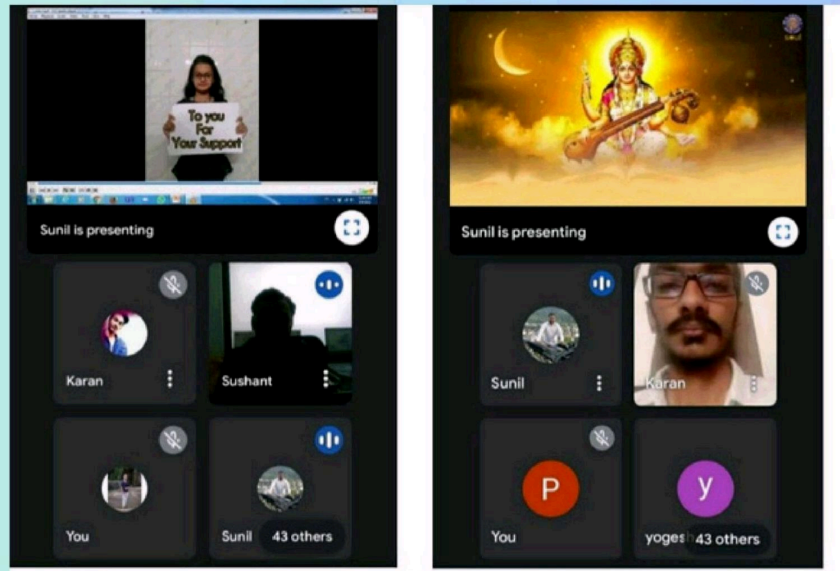
7. Judging Panel: Prof. Mr. Lalit Patil (Coordinator - T&P cell)

8. Event Objectives & Outcomes:

1) January 26, which is marked as Indian Republic Day is a prominent national festival celebrated every year to commemorate the day when the constitution came into effect back in 1950. It's a day to honor the Constitution of independent India.

2) Republic Day was celebrated with a great gratification and joy. All the Respected Invitees addressed the students on this very auspicious occasion. This event promoted a sense a patriotism and nation pride among all the individuals.

Teacher's Day Celebration - 2021



Event Title: TEACHER'S DAY CELEBRATION

2. Event Date: 6

th September, 2021 (Monday)

3. Event Conduction Duration: 1:30 hrs (11:00 AM to 12:30 PM)

4. Event Venue: Virtual (Google Meet)

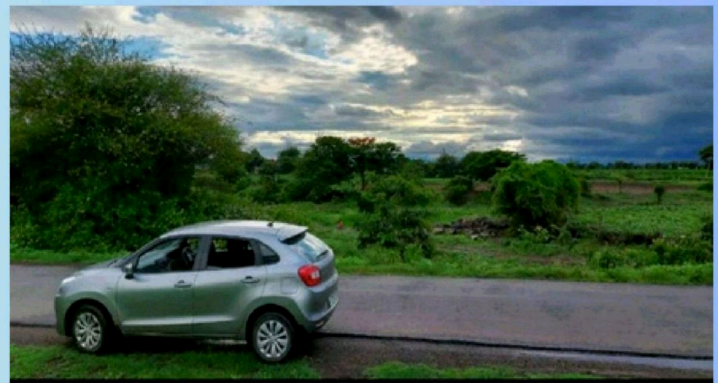
5. Event Coordinator(s): S.A.E.T. Members

6. Expected Audience: Respected Principal Sir, Faculty members of E&TC Dept., Students.

7. Event Objectives & Outcomes:

1) Teachers' Day in India is celebrated on 5th September to commemorate the birth anniversary of Dr. Sarvepalli Radhakrishnan. He was a renowned scholar, recipient of Bharat Ratna, first Vice- President, and second President of independent India. The pure intention behind organizing this event was to thank professors for their immense motivation, constant encouragement & unconditional support.

PHOTOGRAPHY EVENT



Event Title: PHOTOGRAPHY EVENT

2. Event Date: 27th September, 2021 (Monday)

3. Event Conduction Duration: 07:00 hrs (10:00 AM to 5:00 PM)

4. Event Venue: Virtual (Google Meet & Google Form)

5. Event Coordinator(s): S.A.E.T. Members

6. Expected Audience: Faculty members of E&TC Dept. & Students

7. Judges: Prof. Mr. Sushant Pawar & Prof. Mr. Mosam Sangole

8. Event Objectives & Outcomes:

1) On the occasion of World Environment Health Day (26th Sep) & World Tourism Day (27th Sep), The Students Association of Electronics & Telecommunication (SAET) organized the Photography Event.

International Women's Day Celebration - 2022



Event Title: INTERNATIONAL WOMEN'S DAY CELEBRATION

2. Event Date: 8

th March, 2022 (Tuesday)

3. Event Conduction Duration: 2:30 hrs (12:00 PM to 2:30 PM)

4. Event Venue: TE (E&TC) Classroom

5. Event Coordinator(s): Prof. Y. R. Risodkar (HOD) & Student Members of S.A.E.T.

6. Expected Audience: Students, Faculty members of E&TC Department & Ladies Staff of SIEM.

7. Event Objectives & Outcomes:

1) The main objective of organizing this event was to celebrate the social, economic, cultural and political achievements of women. The day also marks a call to action for accelerating gender parity. Significant activities were witnessed in the Dept. organized by the association.



• **Team Newsletter** •



Editor And Incharge of E-News letter

(Prof. Yogesh R. Risodkar)
Head (E&TC)

• **Editorial Board Team** •

Prof. Bharat Deore
Prof. Amit Kumar Mishra
Mr. Karan Uagle
Miss. Gauri Mishra

• **Technical Team** •

Mr. Ashok Biradar
Mr. Sunil Medhe
Mr. Prakash Kale