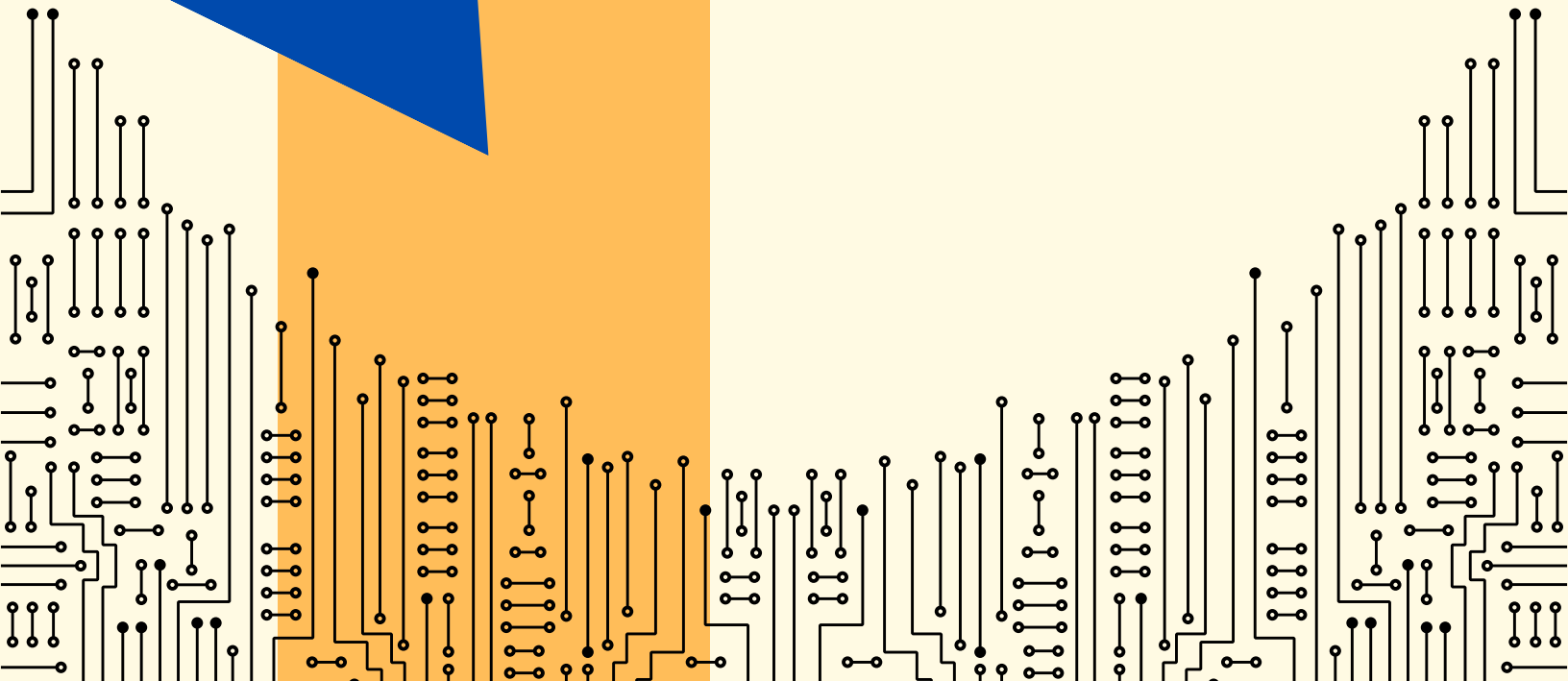
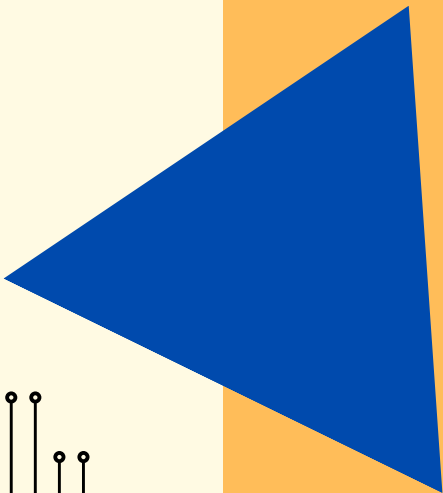
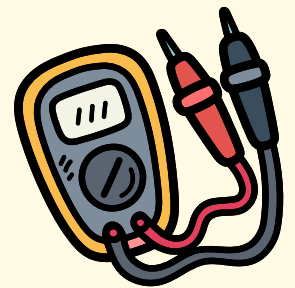


Electro net

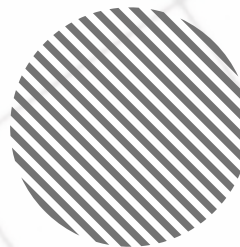
EDITION
2022-2023





EDITORS TEAM

- 
- 1.KRISHNA SINGH**
 - 2.SARVESH SARAF**
 - 3.TEJASWINI SHINDE**
- 





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ABOUT US



SANDIP
FOUNDATION

Sandip Foundation was established with the core objective of rendering selfless, dedicated and yeomen service to higher education in Engineering branches, Management, Arts, Science, and Paramedical Sciences.

The trustees of Sandip Foundation have been involved in the field of higher education from the past fifteen years. During this gestation period the trustees have rendered valuable services to thousands of students. In our endeavor to supplement the cause of professional education, we have instituted multi-dimensional courses spread in various fields with its roots established at Nashik. We believe in offering education that is converted to knowledge with high end infrastructure and a pleasant atmosphere.

SANDIP INSTITUTE OF TECHNOLOGY & RESEARCH CENTRE :

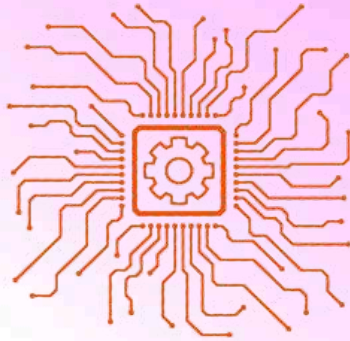


The flagship Institute of Sandip Foundation, 'Sandip Institute of Technology and Research Centre' was established in the year 2008-2009, initially with four Engineering courses. Approved by All India Council for Technical Education, New Delhi and recognized by the State Government while being Affiliated to University of Pune.

The institution is decked up with world class infrastructure which includes State-of-the-Art Laboratories with modern equipment's, Library having books twice than the norms by AICTE, National and International Journals (including e-journals), ample reference books of various authors to cater the student needs and provide knowledge beyond the syllabus. Class rooms with ceiling mounted LCD Projectors, AC seminar halls, laboratories, Amphitheatre to cater the need of all sorts of college festivals, sports facilities, Hostels with well crafted rooms and a clean and energetic canteen for rejuvenating breaks.

The modern infrastructure standards are complimented with lush green lawns and trees around the campus which make the atmosphere in and around the institution a pleasant place to learn, gain and apply the knowledge. The highly efficient faculty boosts the morale of the students and makes them go a step beyond the ordinary and also harness campus placements.

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING :



Electronics and Telecommunication Engineering Department have separate building with spacious laboratories. The department of E&TC built on 1000 sq.meter area with 3 story building having lower ground, upper ground & first floor. Department have PG course in VLSI and Embedded Systems. Special research lab is allocated to students for their research activities. Major equipments available for experimentation are DSO, OTDR, High Configuration CRO, Spectrum Analyzer, Logic Analyzer and High End computers. Department has 10 Laboratories having cost of Rs. 80 Lacs. All laboratories are facilitated with latest software such as MATLAB, TRITON, PROTEUS, CADENCE, ALTERA etc. Also department has well developed library apart from college central library. Apart from college central library, dept. Also has a very well developed library.

Classrooms are equipped with latest teaching aids like LCD Projector. All the computers in department are connected through networking with internet facility. Department has got the UPS & generator back up.

Department is much serious about students placement. Different companies visited to department are Syntel India Pvt. Ltd., Pune, Core Technologies, Kolhapur, Wipro Technology, Pune, Shivannad Electronics, Nashik etc.

A portrait of Dr. Sandip Kumar Jha, a middle-aged man with dark hair, wearing a dark blue suit jacket over a dark blue shirt. He is standing in a room with light-colored curtains and a wooden wall. He has his hands in his pockets and is looking towards the camera with a slight smile.

From the

CHAIRMAN'S

Desk

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.

DR. SANDIP KUMAR JHA

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.

Vision & Mission

of the Institute

VISION

To be acclaimed institution for learning and research.

MISSION

- **To impart in-depth technical knowledge.**
- **To create conducive environment for research, innovation and entrepreneurship.**
- **To instill the social and cultural values.**

Vision & Mission

of the Department

VISION

To be a preferred department, offering contextual relevant education emphasizing on the research and innovation.

MISSION

- **Promoting contextual relevant curriculum.**
- **Enabling OBE based effective teaching learning practices**
- **Promoting industry relevant modern education tools**
- **Nurture innovation and creativity through experiential learning.**
- **Inculcating ethics and soft skills leading to the overall personality**

PRINCIPAL'S

message



DR. MILIND M. PATIL

It gives me immense pleasure to welcome you to Sandip Foundation's SITRC. Our aim is to impart top-quality technical and managerial education in a multicultural environment with the best facilities and a dedicated teaching staff to bring you the best of knowledge.

The modern infrastructure, an exemplary set of dedicated teaching professionals and the exhilarating atmosphere of the campus will surely take you to enviable heights in your intellectual development and help you achieve your future endeavors. To impart training we have a team of individuals with in-depth knowledge and industrial experience in the latest technical fields. Our sole purpose is to develop high quality technical personnel with sound knowledge on basic engineering & managerial principles who are able to adapt themselves to the ever changing business environment along with the highest ethical and moral values.

HOD'S

desk



PROF. MRS. G. M. PHADE

We believe, our acts and omissions in our day to day life should be screened and channelized in the broader framework of these core values of Sandip Foundation. I am confident; this will enable us to achieve the desired unity with appropriate synergy of Diversity

I congratulate all the contributors and the editorial board for bringing out such a beautiful magazine.

With best wishes and blessing for the upcoming issue.

The background features a repeating pattern of stylized flames. The flames are rendered in two colors: a bright yellow and a vibrant red. They are set against a dark blue background. The flames are depicted with thick, black outlines and a wavy, flowing shape, reminiscent of a pop-art or mid-century modern style. The text is centered in the middle of the image.

Nostalgic Events

About the event

:- Sandip Institute of Technology and Research Centre, Nashik celebrated International Women's Day in association with the Women's in Engineering (WIE), and the Institution's Innovation Council (IIC) on 8th March 2023. Dr. Gayatri M. Phade, professor and head of the electronics and telecommunications department, welcomed the gathering.

Mrs. Reshma Nimase was invited as a guest speaker. She gave a session on gender sensitization and women's empowerment, and as a social worker, she also discussed on gender equality. & Women Empowerment schemes such as

1. Beti Bachao Beti Padhao,
2. Ujjawala
3. Sakhi Niwas
4. Nari Shakti Puraskar

WOMEN'S DAY CELEBRATION

8th March 2023





TECHXELLEN CE 2K23

27th & 28th April 2023

About the event

As per the culture of Sandip Institute of Technology and Research Centre . Nashik, every year the department of Electronics & Telecommunication Engineering organized a National Level Technical Fest "TECHXELLECE 2k23" for aspirants assembling from various Polytechnic/ Engineering Colleges with very high competitive spirits & accomplishments to their resumes.

For the academic year 2022-23 we have organized "TECHXELLECE2k23" with the same enthusiasm and determination among the new set of student co-ordinators , student volunteers and faculty co-ordinators on 27th and 28th April 2023.



I love my family



The Inauguration of the Event was done by our Chief Guest Mr. Gokul Tile Director of Aaradhya Electronics Nashik . Principal Dr. M.M Patil Addressed the student to utilize the opportunities & enhance the confidence level by participating in Technical events . Prof. (Dr). N. S Patil sir wished all participants good luck and grand success in thier future life. The Head of Department Prof. (Dr). Gayatri Phade advised the students to take part in competative activities related to advances in engineering technology. Prof. Rahul Awathankar & Prof. Minal Gade Co-ordinator of the event proposed the vote of Thanks



I love my family!

Under Techxellence 2023, received more than 350 participants from different institutes for various sports and cultural activities including Haunted cricket, Tug of War, Idea and Paper presentation, Talent Battle etc. The winners were encouraged with a cash prizes almost for all the events. Department feels proud to organize such a successful event .

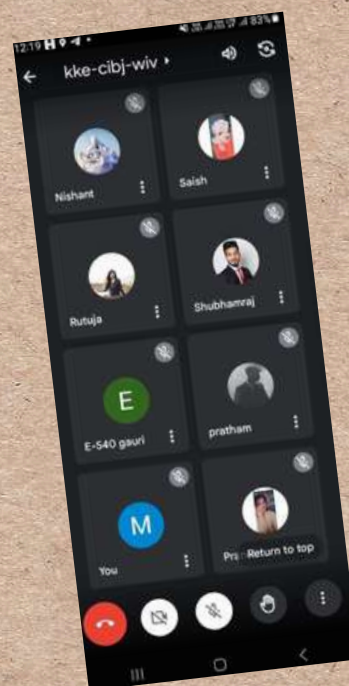


About the event

World Telecommunication and Information Society Day (WTISD) has been celebrated annually every 17 May since 1969 to mark the founding of ITU and the signing of the first International Telegraph Convention in 1865. Women's Grievance committee, Women's in Engineering (WIE), Engineers Without Border (EWB) and Association for Students of Electronics and Telecommunication (ASET) in association with the Department of Electronics and Telecommunication Engineering has organized a Quiz competition for students and faculties 41 students, faculty from various colleges participated in this online activity through which we tried to create awareness of national technology and its importance.

CELEBRATION OF WORLD TELECOMMUNICATION DAY

17th may 2023



CELEBRATE WORLD ENVIRONMENT DAY

5th June 2023



SANDIP FOUNDATION
Sandip Institute of Technology and Research Centre, Nashik
Department of Electronics and Telecommunication Engineering

World Environment Day on 5th June 2023

How to participate :
Take pledge on <https://pledge.mygov.in/life-movement/>
Upload the certificate on below mention google form link
Link for the participant : <https://forms.gle/SQDyqNINrBW6NsUF9>

E- Certificate to all Participants from govt. website.

Prof.(Dr.) Gayatri M. Phade
HOD, E&TC

Prof. Dr. M.M. Patil
Principal, SITRC

Dr. Anurag Kakde
Coordinator

About the event

World Environment Day 2023 is a reminder that people's actions on plastic pollution matters. The steps governments and businesses are taking to tackle plastic pollution are the consequence of this action. It is time to accelerate this action and transition to a circular [economy. Theme of World Environment Day It is time to #Beat Plastic Pollution



MINISTRY OF ENVIRONMENT FOREST AND CLIMATE CHANGE
GOVERNMENT OF INDIA

NITI Aayog

myGov

'Lifestyle for the Environment' Pledge Certificate

This is to certify that

Vishal Anurag Singh
has taken the 'Lifestyle for the Environment' Pledge and committed himself/herself to consciously participate in taking up environmental lifestyle and inculcate long-term environment-friendly habits.

5399392683
April, 24 2023

About the event

A certain day for yoga was introduced to raise awareness worldwide about the importance and impact of yoga on the health of people. The term 'yoga' is derived from Sanskrit word "Yuja" which means to unite representing the unification of body and consciousness. It is an ancient form of physical, mental and spiritual exercise which helps achieve mental and physical fitness. The practice of yoga originated in India and dates back to pre-Vedic times

9TH INTERNATIONAL YOGA DAY -2023

21st June 2023



Dr. Gayatri M. Phade was invited as a guest for Yoga Day celebration and to conduct the session of chair yoga for working professionals. Session started at 4pm with some meditation music. She explained that the yoga is performed without any humorous reason to laugh. The yoga sessions started with "Pranayama" followed by body exercises which include stretching, neck exercise,

11 TH ALUMNI MEET

1st JULY 2023



About the event

All the previous alumni registered for this event from Batch 2013-2022. The Event starts with Worshipping Devi Saraswati Pujan Our departments Respected HOD Madam and our Respected Principal Sir, Worshipped Devi sarswati with lamp lightning .After that our HOD Dr. Gayatri M. Phade Felicitated our Principal sir Dr. M.M Patil sir ,



After the felicitation our Principal sir Dr. M.M Patil Sir, communicated with all alumni and shared his thoughts with them and also provide guidance . Dr.Gayatri M. Phade also guided all alumni . Then the all previous passed out students shared their experience and thoughts with all.

About the event

In order to celebrate 'Engineer's Day' on the occasion of Bharat Ratna Mokshagundam Vishweshwaraya's birth anniversary we organised some events on 15th September 22. There was total four events which are Quiz Competition, Idea Presentation, Fitness Challenge and Rubik's Cube Solving. Name of Event Quiz Competition (MCQ) Date of Event 15th September 22 Type of the Event Competition Duration of Event 1 Hr Mode of Event: Offline

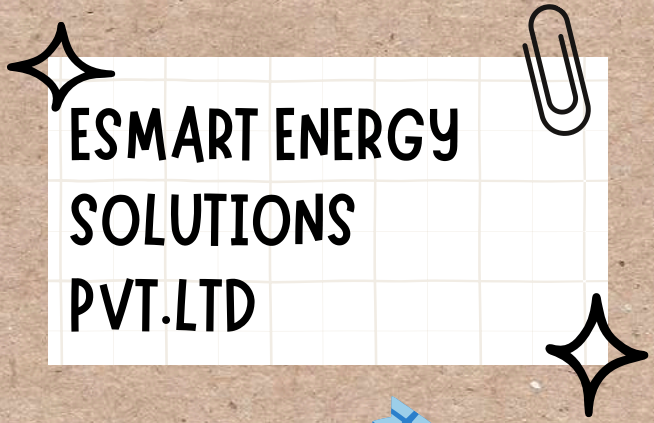
ENGINEERS DAY

15th September 2022



INDUSTRIAL VISIT






ESMART ENERGY SOLUTIONS PVT.LTD



4th November 2022

About the visit

Department of Electronics & Telecommunication Engineering Department of Electronics And Telecommunication, SITRC, Nashik arranged one day Industrial Visit for 3rd and 5th Semester Degree students to "eSmart Energy Solutions Pvt Ltd", Nashik, Maharashtra dated 4th November, 2022 for better technical knowledge enhancement of students. Visit is important especially important in the field of Engineering as the practice of engineering has an inherent (and unavoidable) impact on society. These programs can be a powerful tool to constitute a positive industrial climate and can range from basic manufacturing system programs for students. Overall, the aim of all these visit to trains the students to adapting to changing scenario of technology. After visit students can identify their own efficiency and performance which important for their career, improving work efficiency and confidence.





INDUSTRIAL VISIT TO SIVANANDA ELECTRONICS



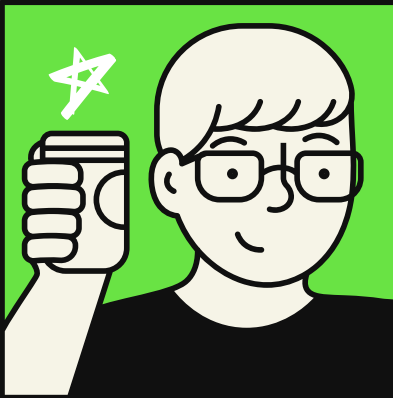
4th November 2022

About the visit

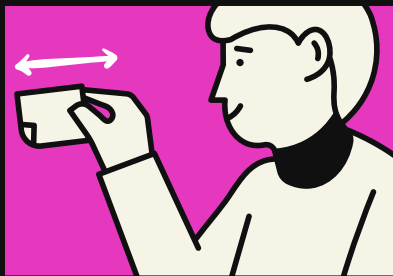


Department of Electronics & Telecommunication Engineering Department of Electronics And Telecommunication, SITRC, Nashik arranged one day Industrial Visit for final year students to "Sivananda Electronics", Deolali Nashik, Maharashtra dated 4th November, 2022 for better technical knowledge enhancement of students. Visit is important especially important in the field of Engineering as the practice of engineering has an inherent (and unavoidable) impact on society. These programs can be a powerful tool to constitute a positive industrial climate and can range from basic manufacturing system programs for students. Overall, the aim of all these visit to trains the students to adapting to changing scenario of technology. After visit students can identify their own efficiency and performance which important for their career, improving work efficiency and confidence





SEMINAR & WORKSHOP



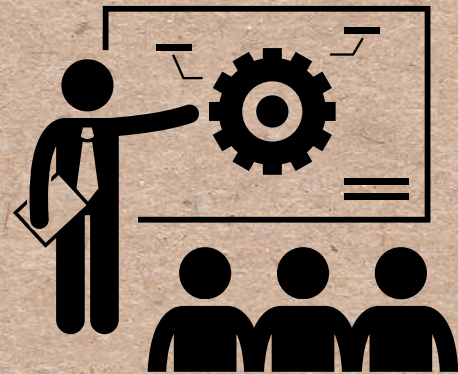


Career Guidance Seminar on Civil Services

8th August 2022

About the visit

Students actively participated in the awareness program on how to plan & prepare for the civil service examination. Students understand how to take guidance & study material from different sources, how to approach the senior official who are already in the civil services for guidance. Because true & right guidance is the key of success. Students are very happy with the interactive session & they demand to put such sessions whenever possible.





Workshop on SWOC Analysis & Goal Setting

9th August 2022

About the workshop

Students actively participated in the workshop on SWOC Analysis & Goal setting, session was so interactive, and every participant got a chance to explore their own abilities & weakness, challenges, & opportunities. For e.g. some students understand the importance about consistency, how to build the self confidence, how to get the stage daring etc. Students are very happy with the interactive session & they demand to put such sessions whenever possible.





Japanese and it's benefits in education and jobs



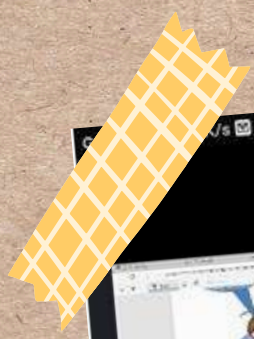
19th may 2023



About the session



The session was hosted by Miss Kirtee Narkhede (SF SB IEEE secretary) . Dr. Minal Gade (SF SB IEEE) professional member) and Dr. Gaytri Phade (SF Branch Counselor of IEEE)StudentBranch. The event started with an introduction of the speaker Miss Megha H. Kambale. Our experts briefly introduced the benefits of the Japanese language in the education field as well as jobs. Miss Megha led activities and gave some basic info about Japanese literature . Our eminent guest also guided participants about how to get an opportunity in learning Japanese to build their professional career from their college life. Some students were inspired by sharing their own journey about learning Japanese. Moreover, one of their students learnt Japanese and moved to Japan. She shared her experience in her professional life. Both honorable Guests had addressed some queries also regarding Japanese learning and its opportunity to students.



*Faculty &
Students
Achievements*



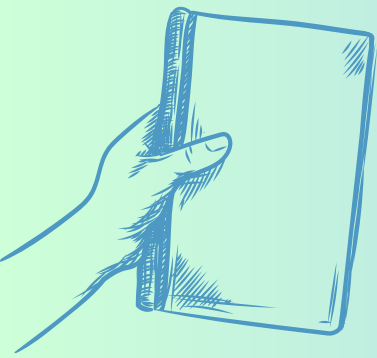
Faculty Achievements

Name of Author	Title of Manuscript / Paper	Link to the recognition in UGC
Dr. Rahul V. Awathankar, Dr. Gayatri M. Phade, Dr. Omkar Vaidya, Vaibhav Joshi, Kavita Patil	Intelligent Street light system for smart city	https://www.ijett.in/index.php/IJETT/article/view/749
Dr. Omkar S. Vaidya	Devanagari Script based Fancy Vehicle Number Plate Recognition using Machine Learning Approach: A Survey	http://www.ijies.net/finial-docs/finial-pdf/110423832.pdf
Sushant Pawar	IoT Based Face Mask and Body Temperature Detection System for Covid-19	https://technoaretepublication.org/internet-cloud-computing-research/iot-based-face-mask-body-temperature.php
Dr Gayatri Phade	IoT-Enabled Unmanned Aerial Vehicle: An Emerging Trend in Precision Farming	N/A
Dr. Omkar S. Vaidya	Women Cadets Induction in NDA: One Small Step for Gender Equality, One Giant Leap for Nation	N/A
Dr. Minal V. Gade	Review on text-based personality prediction from social media data	https://drive.google.com/file/d/1bG7SBE8L3yQo0TP5uON9ClIFMbbqmT1X/view?usp=drive_link
Dr. Minal V. Gade	Text Based Personality Prediction from a Twitter Data Source using Machine Learning	https://docs.google.com/document/d/14iJUPUd94-wdwyceOrd7vhjlgyp3yb1R/edit?usp=drive_link&oid=106382897548349157537&rtpof=true&sd=true
Dr Gayatri Phade	Skill Based Education in Rural Communities	N/A

Faculty Achievements

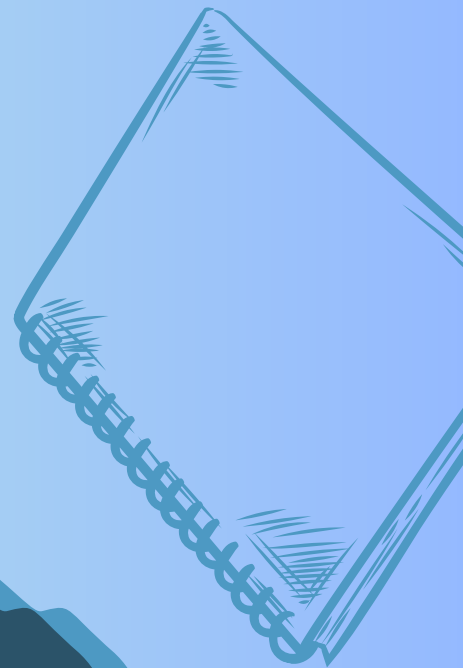
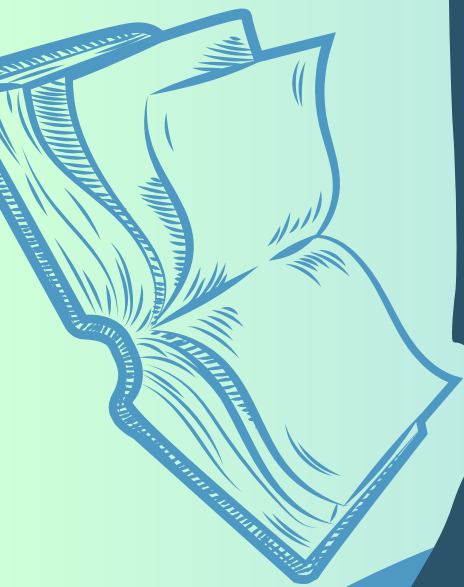
Name of Author	Title of Manuscript / Paper	Link to the recognition in UGC
Dr. Minal Gade	Vehicle Overloading and Tracking Detection System	https://drive.google.com/file/d/1LMJTEEDHPPqkJbAtktpc_Boc00CdVpTE/view?usp=drive_link
Dr Gayatri Phade and Dr. Minal Gade	Women Entrepreneurs : A New Approach to Women Empowerment	https://drive.google.com/file/d/17aX8pvsa1D5WCdxMINhPmrjnBtzgSns-/view?usp=drive_link
Dr. Minal V Gade	Deep Learning Based Arrhythmia Classification using Single LED ECG	https://drive.google.com/file/d/1EkzwUmCJirWRQzDiClhXA0YlB5M9qqZs/view?usp=drive_link
Priyanka Bhatambarekar and Dr. Gayatri Phade	In-depth study of Spatial domain Image Fusion Techniques for Quality Enhancement	N/A





Student

ACHIEVEMENTS





SAURABH CHAUDHARI



SARVESH SHETE



Sandip Foundation's
Sandip Institute of Technology & Research Centre, Nashik
 Approved by AICTE and Affiliated to Savitribai Phule Pune University, Pune

CERTIFICATE OF PARTICIPATION

This is to certify that

Prashant Kailas Ingole

participated in

An one day Workshop on **"SWOC Analysis & Goal Setting"** organized by Department of Electronics & Telecommunication Engineering, Sandip Institute of Technology & Research Centre, Nashik on 9th August 2022.


 Prof. Sushant J Pawar
 Event Coordinator


 Dr Gayatri M. Phade
 HOD ESTC


 Dr Sanjay T. Gandhe
 Principal, SITRC

PRASHANT KAILAS INGOLE

Kalyani Charitable Trust's
LATE G. N. SAPKAL
COLLEGE OF ENGINEERING
(Approved by AICTE and Affiliated to Savitribai Phule Pune University, Nashik)
 Kalyani Hills, Anjaneer, Nashik - 422 213
A National Level Technical Symposium
SAPKAL KNOWLEDGE HUB®

SKH TechnoFest 2023
beyond imagination beyond brilliance

Certificate

This is to certify that Mr. / Miss / M/s. Pranita Wadje
 has participated / volunteer in the event Project Competition
 and secured _____ position in **"SKH TECHNOFEST-2023"** A National Level
 Technical Symposium held on May 13, 2023.

 Prof. (Dr.) Tushar Y. Badgujar  Prof. (Dr.) Sahebrao B. Bagal  Dr. Ravindra G. Sapkal

PRANITA WADJE

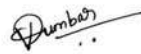


Certificate OF PARTICIPATION

is presented to

Nakul Tiwari

for participating in the
Budding Innovators Competition organized by SIGHT Pratham IEEE Bombay Section
on 12th November, 2022



Prof. Vijayalaxmi Kumbhar
Chair SIGHT 2022, IEEE BS



Dr. B. Satyanarayana
Chair IEEE Bombay Section

NAKUL TIWARI

1st International Conference on
Recent and Future Trends in Smart Electronics System and Manufacturing

Organised by Department of Electronics and Telecommunication Engineering,
Symbiosis Institute of Technology, Pune

Sponsored by **DSIR, New Delhi** in collaboration with **National University, Malaysia**

Certificate of Participation

This Certificate is presented to

Nakul Tiwari

for participating in Hackathon in **SESMIC 2022** held from 1st - 3rd December 2022.



Dr. Ujwala Kshirsagar
Conference Chair,
SIT, Pune



Dr. Pritesh Shah
Conference Chair,
Head E&TC., SIT, Pune



Dr. Ketan Kotecha
Conference General Chair,
Director SIT, Pune

NAKUL TIWARI



**SANDIP
UNIVERSITY**

AN INTERNATIONAL LEVEL HACKATHON

SUNHACKS-2022



10th - 12th November 2022

Certificate of Participation

This is to certify that

Mr. / Ms. / Nakul Pravin Tiwari

has Successfully Participated in **SUNHACKS-2022**, AN INTERNATIONAL LEVEL HACKATHON

organized by **SCHOOL OF COMPUTER SCIENCE & ENGINEERING, SANDIP UNIVERSITY, NASHIK**

From 10th November 2022 to 12th November 2022.

Dr. Anand Rajawat
Event Co-ordinator
SUNHACK-2022

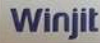
Dr. Pawan Bhaladhare
Convener
SUNHACK-2022

Dr. Amol Potgantwar
Director
Sandip University, Nashik

Dr. Prof. Anil Maheshwari
Registrar
Sandip University, Nashik

Dr. Rajendra Sinha
Vice-Chancellor
Sandip University, Nashik

Mr. Piyush Somani
M.D. & Chairman,
ESDS Software Solutions Ltd., Nashik



NAKUL TIWARI

SAVITRIBAI PHULE PUNE UNIVERSITY

NASHIK DISTRICT ZONAL SPORTS COMMITTEE



Certificate of Participation



(Inter - Zonal Sports)

No.: 199

This is to certify that Mr./Ms. Kashmira Deore

Student of Sandip College College

has represented the Nashik District Zone in the Inter Zonal Foot ball Competition

held at Pune during the year 2022-2023.

Prof. S. D. Ingale
Secretary,
Nashik District Zonal Sports Committee



Dr. P. V. Rasal
President,
Nashik District Zonal Sports Committee



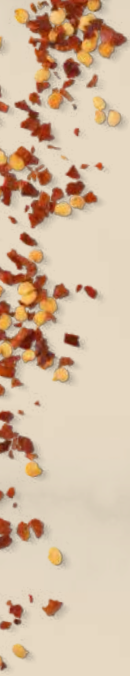
KASHMIRA DEORE



ASHWINI SONAWANE



ABHISHEK SHINDE

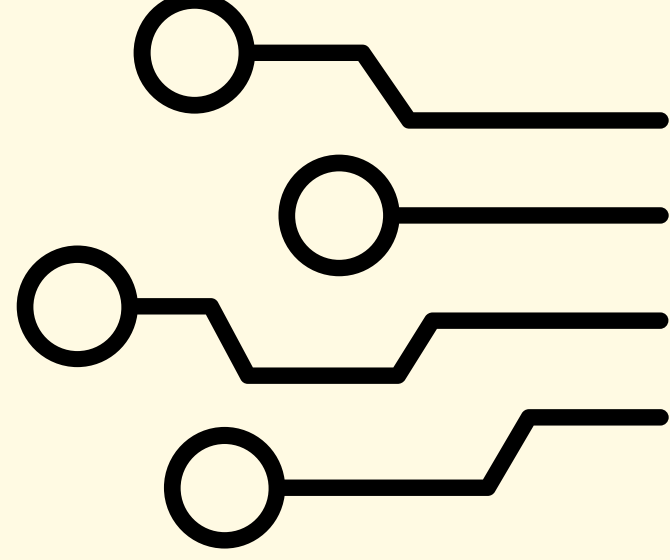
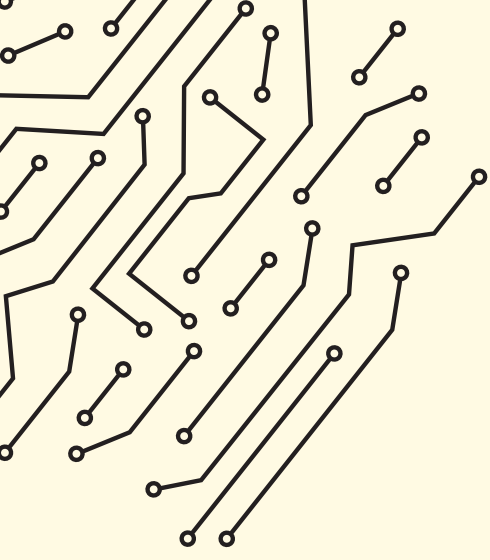


FOOTBALL TEAM





thank
you



SANDIP
FOUNDATION

