PERCEPTRON 2020-2021

DEPARTMENT OF COMPUTER ENGINEERING

VISION

To develop computer engineering graduates with engineering and managerial skills to acquire high end positions that are globally recognized.

MISSION

To impart computer engineering knowledge and to provide exposure to the latest technologies so that, students can solve various engineering problems and possesses social, ethical responsibilities and have the attitude of lifelong learning so as to bring about competent professionals.

PROGRAM SPECIFIC OUTCOMES

- Students will be able to design & develop Computer programs and Automated systems to solve the real world problems for the benefit of society.
- Students will be able to work professionally by applying Software Engineering practices, pursue higher studies and build Entrepreneur skills.

HOD's Desk

Perceptron is giving a medium to the department to showcase the achievements in a systematic way and stakeholders get a ready reference of the activities of the department.

This year was the year of pandemic and the worst affected sector was the education sector. I am happy to inform the readers that the department has put utmost effort to quickly learn the changed situation, adapted to the new technology, self-trained the faculty and took the student community into confidence, and has continued imparting quality education.

With a virtual environment, we have come out with innovative ideas for working and running a variety of programs for the students and staff. At the beginning of the semester with the new second-year batch having no idea of the start of the semester, the department has converted this dilemma into an opportunity to run a webinar series to equip the students with new technologies for their mini-projects. In the same line for final year students, we have run a five days webinar series on " Ins & Outs of Project Planning and Development". The series got a response from all over Maharashtra and also few participants from other states. Many such 3 to 5 day programs were organized and one such training program was on Ethical Hacking which received an overwhelming response across the Institutes in the state.

Keeping in view the pandemic, we have also arranged programs on healthcare, stress management etc. Department has also organized plenty of technical and non-technical events in collaboration with different professional chapters. The programs include Chatbot Development, Project Management, Cloud-native Blockchain Technologies, etc. The eminent speakers from the industries like LTI, TCS, Capgemini, BPCL, etc. have also taken various webinars on trending technologies.

Creativity is the mother of everything!! Be it to become a good engineer, doctor, artist, scientist creative mind proves and demonstrates excellence in the chosen work. The "Perceptron" editorial team has shown creativity and diligence while coming up with yet another edition. I would like to thank our Management and Principal, Dr. Bhavesh Patel, for giving constant support to organize various quality programs for the students and faculty.

Prof. Uday Bhave
Head of Department

Editor's Desk

Welcome, readers! As the Editor-in-Chief of the annual departmental magazine of the Department of Computer Engineering, I am immensely pleased to announce the release of the latest issue of our annual magazine – Perceptron 2020-2021. This magazine has been a platform to perceive various activities and events conducted by the department. It is a platform to exhibit various activities, attended and excelled in. The magazine vividly presents the achievements of students and the contributions of teachers for personal and departmental excellence. The magazine is loaded with brilliant artwork, submitted by our very own SAKEC members!

The efforts put in by the publication committee are overwhelming, and it is always an experience to work with these young and beautiful minds and see what they have to offer, as limited space paves way for unlimited creativity.

Prof. Shahzia Sayyad
Editor-in-Chief

CONTENT

Ins and Outs of Project Planning and Development

The department had organized five-day webinar series on "Ins and Outs of Project Planning & Development". In this webinar, Industry Experts/Academicians guided the audience about various aspects of the Project. Some major topics covered in the webinar were the role of academic projects and its importance in the career of an engineer by Mr. J. A. Gokhale, Director of Intellisys Application Solution Pvt. Ltd. ,various ideas and methods to undertake a project and determine a holistic approach by Mr.Dileep V. Pednekar, Senior Manager at Jacobs, basic steps of project building, conduction of surveys and documentation of the same by Dr. Irfan Siddavatam Associate Professor at K.J. Somaiya College of Engineering,


Dr. Dhanukumar Pattanashetti, Client Services Manager at IEEE Bangalore and Dr. GK Upadhyay, Senior Training Manager at EBSCO Information Services gave tips and tricks on technical paper and report writing. How to make effective technical PPT presentations was covered by Dr. Janardhanan Gangathulasi, Head of Centre for International Affairs at the National Institute of Technical Teachers Training and Research. At the end of series, students of different departments of SAKEC presented their high-rated project work in the area of IOT, Data Mining, Security, and Web development for the attendees, to help them understand their area of research which would help the students to carry out smooth and captivating project development phases.

Let's Begin – Web Technologies

A four days webinar series on Web Technologies was conducted by the Department from 07th July 2020 to 10th July 2020, with the purpose of benefiting all the second-year students for building their Projects.
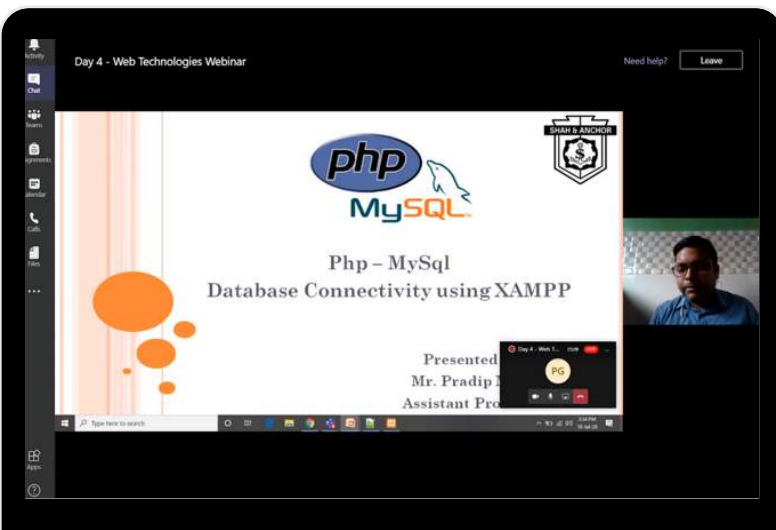
On day 1 of the webinar series, a session was conducted by Prof. Vaishali Chavan on the topic "Introduction to Web Technologies and Introduction to Databases". On the 2nd day of the webinar series, a session on 'Cascading Style Sheets' was taken by Prof. Deepa Ekhande and a session on 'JavaScript' was taken by Prof. Pallavi Khodke. On day 3, a session on 'Introduction to PHP and XAMPP Server' was conducted by Prof. Karuna Borhade.

The last day of the webinar series started with a session on 'Database Connectivity with XAMPP Server' by Prof. Pradip Mane. The event then concluded with a motivating speech by Prof. Uday Bhave, HoD, Computer Engineering Department.
The webinar was a huge success as all the students gave positive feedback for the webinar and urged to arrange more such webinar series in the future.

Made Of Iron

An illuminating hour-long webinar titled Made of Iron was organized by the Department in collaboration with Cadila Pharmaceutical under Institute Social Responsibility activity for our girl students on 21st of August, 2020 . The session was aimed at raising awareness about healthcare in adolescent girls and providing helpful tips for taking care of health and treating common medical conditions faced by women in their day to day lives.

The event was coordinated by the Prof. Uday Bhave and Prof. Rupali Santosh Kale while Dr. Archana Gaikwad, MBBS and DGO, was the eminent speaker for the session. The key take-aways from the webinar were daily calcium intake and its sources, the importance of iron and its sources which help in making hemoglobin, daily iron supplements in adult women and adolescent girls, ways to avoid anemia and complications that come with it, care to be taken in case of fatigue/weakness and many more.

The event was a great success as it successfully enlightened the female participants on the best possible ways to take care of their health and avoid any sort of deficiency, providing our community with a strong feminine populace.

Project Analysis and Management

A three days online series was organized on the topic "Project Analysis and Management", in view of getting the Second-year students familiarized with the concept of SDLC, Project Planning and Scheduling, System Analysis and Design for the creation of Mini Projects.
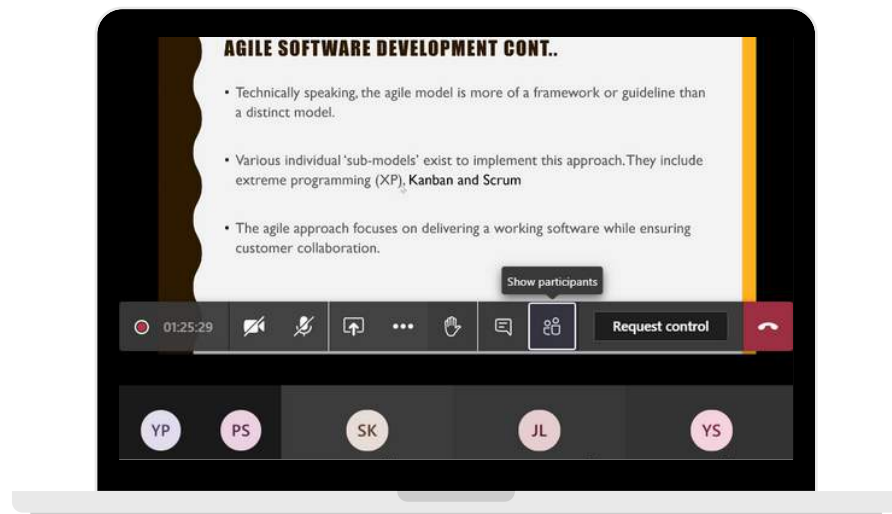
These sessions were conducted by Prof. Sarika Rane, Prof. Rupali Kale and Prof. Tina Maru. Through the sessions, various tools used for project scheduling and design were demonstrated.

Analysis model and design model diagrams were introduced. Scenario based element, use case diagram was taught with varied system examples, such that students will be able to analyze their mini project and create the use case diagram for the same. These sessions got an overwhelming response from the students and students were able to analyze their mini projects based on the information they got from this online webinar series.
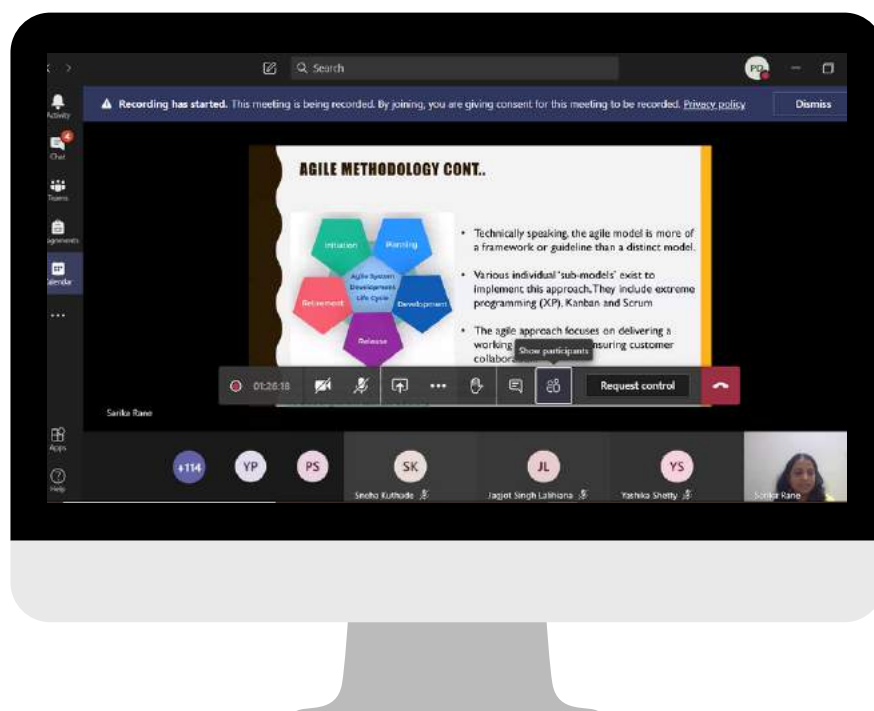
Bottles For Change

"Bottles for change", a webinar in collaboration with Bisleri International Pvt. Ltd., was organized with an aim to create awareness among students and faculties about effective plastic disposal and the recycling process. It was conducted on 28th November 2020 and coordinated by Prof. Shahzia Sayyad. The speaker for the event was Mr. Abhijit R. Kakade, Bisleri International Pvt. Ltd.

The webinar was mainly focused on the journey of plastic from invention to recycling. Speaker also explained about its manufacturing process, all about recycling which includes its technical points, statistics. He also enlightened the attendees about how a student can be part of this initiative and about the expected role. The session was very informative to spread awareness to friends, family, and surroundings. The webinar got positive feedback and ended on a very informative note.

Ethical Hacking

CSI-SAKEC, in partnership with the Computer Engineering Department, hosted an Ethical Hacking event on the Microsoft Teams platform from From July, 25th to July 29th, 2020. Prof. Deepshikha Chaturvedi, Prof. Shahzia Sayyad, and Miss Yukta Lapsiya oversaw the event.

Mr. Saurabh Patil, a Certified Ethical Hacker, led the workshop, which attracted more than 140 participants from throughout India. Some of the primary subjects discussed included Email Spoofing, Phishing, Network Recon, MiTM attacks, Metasploit attacks, Android phone hacking, WiFi breaking, password cracking, and website attacks. Dr. Rekha Ramesh and Prof. Uday Bhave gave inspiring speeches towards the end of the event. On successful completion of the programme, all participants received E-certificates.

Chatbot

CSI-SAKEC in collaboration with the Computer Engineering Department organized a Chatbot- Build Intelligent Virtual Assistant event on Microsoft Teams platform on 1st August 2020. This event was coordinated under the direction of Prof. Shashikant Radke, Prof. Deepshikha Chaturvedi and the help of Ms. Simran Jindal. The session was conducted by Mr. Ali Mustufa Shaikh, INTEL Software Innovator and Google Certified Educator, where more than 180 members from everywhere India took part.

Developing nuts and bolts of chatbots, custom development of Chatbots from Scratch, basic understanding of Chatbots and their business Use-Case, and developing Chatbots using minimal code were some of the major topics covered. The event concluded with Prof. Shashikant Radke's Vote of thanks as a gratitude towards the speaker, the organizing committee and the participants. All the participants were appreciated with E-certificates.

Test-Driven Development using Java

On August 8, 2020, from 6:00 PM to 8:00 PM, CSI-SAKEC, in partnership with the Computer Engineering Department, hosted a Test-Driven Development using Java event on the Microsoft Teams platform. Prof. Shahzia Sayyad, Prof. Deepshikha Chaturvedi, and Mr Ritik Mahajan supervised and assisted in the planning of this event. The participants' count exceeded 90 in this International Webinar, with registrations made from all over India.

The session was led by Mr. Suresh Gupta, a certified AWS Cloud Solutions Architect, and Senior Full-stack developer, F-secure, Finland.

The speaker gave a hands-on demo involving building a piece of code with all different test cases, as well as an introduction to TDD, Junit framework, and TDD cycles. The ceremony came to a close with a vote of thanks, in which we showed our heartfelt gratitude for the speaker's efforts. On successful completion of the webinar, all participants received E-certificates.

Gateway to GATE 2021

A resplendent event of Gateway to GATE was organized by the CSI SAKEC team in collaboration with the Computer Engineering Department on the 1st of February, 2021, using the online platform of Microsoft Teams. The event was conducted with the combined efforts of Prof. Deepshikha Chaturvedi as the staff Coordinator and Ms. Shalin Gund and Mr. Krutik Patel as the Student Coordinators. The event was a great success with more than 70 participants and registrations coming in from all over the state of Maharashtra. Mr. Prakash Parmar was the speaker for the event, an expert at mentoring students for GATE and NPTEL Certification examinations while serving as a faculty at Vidyalankar Institute of Technology.

Several topics like Importance of GATE Examination, discussion on benefits of GATE, tips and tricks to crack the examination smartly, and how to keep oneself motivated a few days before the examination, were elucidated by the speaker in great detail and simplicity. The event concluded with a hearty vote of thanks to the speaker and the participants leaving with a sense of utmost satisfaction and motivation as their valuable feedback suggested while looking forward to more such undertakings.

Tableau – Interactive Data Visualization Software

The CSI SAKEC team in collaboration with the Computer Engineering Department arranged an exhilarating Event on Tableau- Interactive Data Visualization Software on 5th of February 2021. Ms. Riddhi Dagha and Mr. Rutvik Deshpande coordinated the event on the platform of Microsoft Teams in a skillful manner with great fluidity which covered topics such as: Importing data, data visualization with pie, bar and stack bar charts, map layers, creating fill maps, discrete line chart, continuous line charts, dual axis charts, cross tabs, scatterplot, histogram, and dashboard.
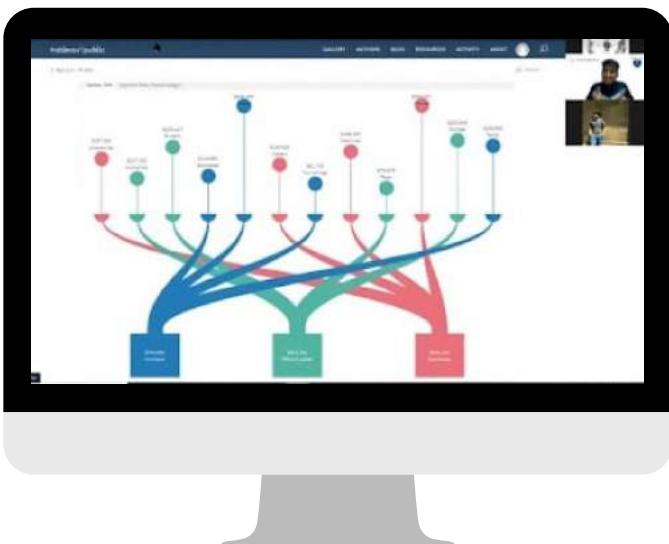
The speakers of the event were Mr. Vedant Lakhani and Mr. Tanish Jain from India, Mr. Tokolo Kashupi from Nambia and Tableau Zen Master Marc Reid from the United Kingdom. They addressed over 70 enthusiastic participants who expressed immense gratitude and appreciation in their feedback.

Cross Platform App Development using Flutter and Dart

An inspiring workshop on Cross Platform App Development with Flutter and Dart was contrived by CSI SAKEC in collaboration with the Computer Engineering Department from the 26th of February to the 28th of February 2021 on the Microsoft Teams platform.

Around 50 vivacious participants joined the workshop and learned topics such as introduction and basics of flutter and dart, widgets, android studio setup, building an app with features such as logging in/out, app drawers and dashboard.

Mr. Shubham Darekar was the spokesman for the event and he artfully explained the structure of a flutter application, along with an authentication flow. Mr. Ritik Mahajan acted as the Student Coordinator and made the workshop a success as was evident from the fervour expressed by the participants in the feedback.

Overseas Education Information Series

An Informative Series on Overseas Education was organized by the Department, in association with Training and Placement Cell, CSI-SAKEC, and IETE-SAKEC. It witnessed experienced professionals coming together and discussing with the students on the topics such as life abroad, fees structure, availability of scholarships, job opportunities, to name a few.

The spectacular line-up of sessions consisted of Ms. Shivani Bhalla, Brand Manager & Higher Education recruitment specialist, Brunel University London, Ms. Pinky Desai, Student Recruitment and School Management, Monash University, Australia, Prof Derek Molloy, Dublin City University Ireland, Dr. Conor McArdle, Dublin City University Ireland, Mr. Colum Cronin, Dublin City University Ireland, and Mr. Sudipta Roy, Regional Recruitment Manager, USA.

Recommendation Engine

The event on Developing Recommendation Engine Using Python: Understand Techniques and Algorithms, organized by CSI-SAKEC in collaboration with the Department. It mainly focused on clearing doubts with respect to recommendation engines and motivating students to try and develop recommendation engines.

The speaker of the event was Mr. Parth Sharma, Chief Data Scientist at Jasper Colin Research. Topics such as collaborative filtering, approaches for collaborative filtering, content-based recommenders, implementing various recommendation system algorithms in python, creating a recommendation system and developing a deeper understanding of recommendation systems and their user cases, were covered by the speaker.

Technical Content Writing and Copyright

A Six days Short Term Training Program on "Technical Content Writing and Copyright" was organized by the Department and Aspire Research Foundation in association with CSI SAKEC Students' Chapter on Microsoft Teams platform from 28th June to 31st July 2021. Prof. Uday Bhave, Prof. Shashikant Radke and Prof. Deepshikha Chaturvedi oversaw the event .

The dignitaries for the first day were Dr. Mandeep Kaur, Director at Aspire Research Foundation, Pune, and Dr. Sachin Sakhare, Professor, CSE Department, VIIT, Pune. The topics covered were how to research a paper, how to go about with the "Introduction" and "Literature Review" sections, identification of research gaps, and the need for proposed work. The following day topics like identification of the problem, experimental design, how to explain proposed work, data collection and data pre-processing, and use of data visualization techniques for better understanding were covered by Dr. S. N. Londhe, Professor, Department of Civil Engineering, VIIT, Pune and Dr. Anil Jadhav, Symbiosis Centre for Information Technology, Pune.

Technical Content Writing and Copyright

The speakers for the third day were Dr. Jyoti Yadav, Savitribai Phule University, Pune and Dr. Beena John, SBES, IIMHRD, Pune. The topics covered were results and discussion sections of a research paper, figures, charts and tables for presenting results, conclusion and summary of the paper, references, reference styles, and how to cite references. On the fourth day, we had Dr. Mandeep Kaur, Director, Aspire Research Foundation, Pune and Dr. Vishal Jagota, Dept of Mechanical Engg, Madanapalle Institute of Technology & Science, Madanapalle, Andhra Pradesh as our guest speakers. Some of the topics covered were indexing of papers and reviewing them.

On the fifth day, we had Dr. Ketan Raut, Department of Electronics Engineering, VIIT, Pune and Dr. Manimala Mahato, Department of Computer Engineering, SAKEC, Mumbai as our speakers who focused on effectively writing a paper using LATEX. On the last day Prof. Shahzia Sayyad, Prof. Deepshikha Chaturvedi, Prof. Sarika Rane and Prof. Deepa Ekhande helped the participants in understanding the copyright filing process of the research work. A hands-on experience on E-filing for the copyright application was also delivered. The day marked the end of the program, with a valedictory function, which included the delivery of a vote of thanks, expressing our sincere appreciation and gratitude. Positive feedback was favored from the participants .

Technical Content Writing and Copyright

DR. JYOTI YADAV

DR. MANDEEP KAUR

DR. BEENA JOHN

PROF. MANIMALA MAHATO
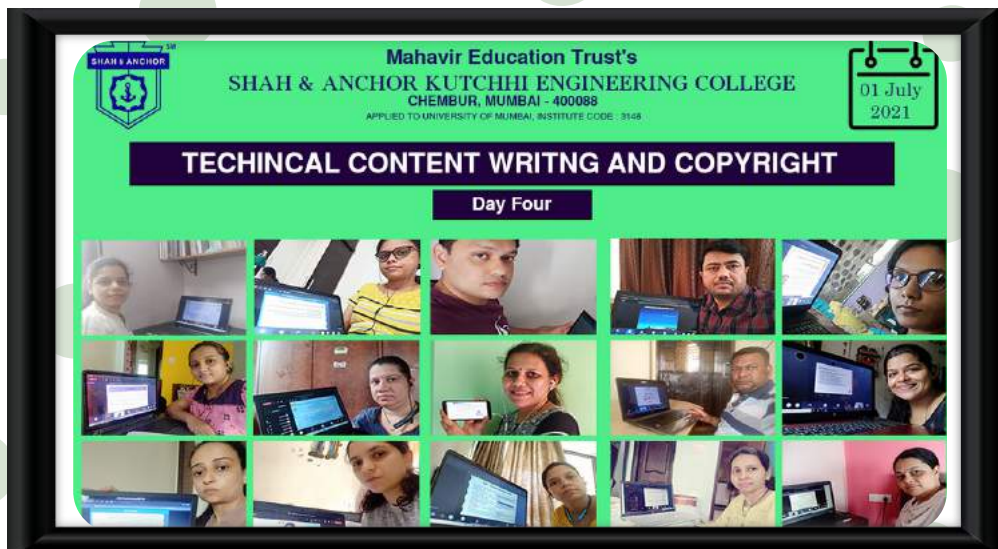
Faculty Interaction with Outside World

Sr. No.	Name of the Faculty	Activity Title	Venue	From Date	To Date
1	Dr. Rekha Ramesh	Moderation Committee Member for SE and TE computer engineering and IT exams	University of Mumbai	10/9/2020	----
2	Dr. Rekha Ramesh	Promotion Screening Committee Member for Project Research Scientist	CDAC, Juhu Center, Mumbai	10/15/2020	----
3	Dr. Rekha Ramesh	Reviewer in International Conferences	FCRIT, Bandra, Mumbai	12/3/2020	1/4/2021
4	Dr. Rekha Ramesh	Moderation Committee Member for SE and TE Computer and IT Examination	University of Mumbai	12/18/2020	----
5	Dr. Rekha Ramesh	Research Advisory Committee Member in Progress seminar of PhD Student	PIIT research center	1/9/2021	----
6	Uday Bhave	Session Chair in an International Conference on Convergence of SmartTechnologies (IC2ST-2021) (Special Session by Computer Engineering Department, SAKEC)	Aspire Research Foundation	1/9/2021	1/10/2021
7	Dr. Vidyullata Devmane	Session Chair in an International Conference on Convergence of Smart Technologies (IC2ST-2021) (Special Session by Computer Engineering Department, SAKEC)	Aspire Research Foundation,Pune,India	1/9/2021	1/10/2021
8	Dr. Rekha Ramesh	Reviewer in 4th Biennial International Conference on Nascent Technologies in Engineering	FCRIT, Bandra, Mumbai	1/15/2021	1/16/2021
9	Dr. Rekha Ramesh	Session Chair in an International Conference on Nascent Technologies in Engineering (ICNTE 2021)	FCRIT, Vashi, Navi Mumbai	1/16/2021	----
10	Dr. Rekha Ramesh	Program Committee Member in Learning Analytic (LAK21) data challenge	Kyoto University, Japan	1/21/2021	----

Faculty Interaction with Outside World

11	Shashikant S. Radke	Delivered Guest lecture on Hands-on Session, on Playing with Excel Sheet	Brihan Maharashtra College of Commerce, Pune - 411004, Maharashtra - India	1/28/2021	----
12	Sonali Bhutad	Reviewer in an International Conference on Computing Science, Communication and Security (COMS2- 2021)	Ganpat University, Gujarat	2/6/2021	2/7/2021
13	Sonali Bhutad	Reviewer in an Asian Journal of Advanced Research and Reports	--	3/3/2021	3/3/2021
14	Dr. Vidyullata Devmane	Judge for the Project Competition in TECHGYANATHON	Department of Information Technology, VPPCOE&VA, Sion, Mumbai	3/26/2021	3/27/2021
15	Dr. Rekha Ramesh	Program Committee Member in an International Conference C3 track: Advanced Learning Technologies, Learning Analytics, Platforms and Infrastructure.	Thepchai SUPNITHI, National Electronics and Computer Technology Center, Thailand	5/1/2021	----
16	Sonali Bhutad	Reviewer in an Asian Journal of Advances in Research	--	5/18/2021	5/18/2021
17	Pinki Vishwakarma	Judge in 15th Inter-Collegiate Institute Department Avishkar Research Convention 2020-21	University of Mumbai	5/19/2021	----
18	Sonali Bhutad	Reviewer in an Annual Research and Review in Biology	--	5/25/2021	5/25/2021
19	Dr. Rekha Ramesh	Resource Person in FDP on Artificial Intelligence and Machine Learning	Sir Padampat Singhania University ,Udaipur	6/21/2021	6/25/2021
20	Dr. Rekha Ramesh	Delivered expert talk in Faculty Development Program on String Matching Algorithms: Knuth-Morris Pratt algorithm, Longest Common Subsequence algorithm	Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai	6/28/2021	7/2/2021

Project Awards & Achievements

Sr. No.	Name of the Student	Title	Name of the Guide	Date	Award/Achievement
1	Lalit Lakshmanan Yash Vora Raj Ghate	A Survey of License Plate Recognition Methods using Deep Learning	Ms. Sarika Rane	7/18/2020 - 7/19/2020	Best Paper Presentation Award in ICMLDA-2020: International Conference on Machine Learning and Data Analytics (ICMLDA-2020)
2	Dheer Modi Rohit Parmar Vishal Avduth	Soft Computing Techniques based Diet Recommendation System	Ms. Pallavi Khodke, Ms. Priyanka Ghule	1/10/2021	Best Paper Presentation award in International Conference on Convergence of Smart Technologies IC2ST-2021
3	Karuna Jagtap Diksha Shah Shivali Kakade	EMEMO - Smart Energy Utilization	Ms. Tina Maru	3/21/2021	Won 2nd Prize – Rs. 3000 in Project Competition organized by IEEE-CRCE and WIE-CRCE under the category of Hardware Projects

Spoken Tutorial

Following is a brief summary of Student participation in Spoken Tutorial:

Sr. No	Class	Tutorial Topic	Date of Exam	Appeared	Pass
1	FE	C Language	23/06/2021	168	157
2	SE	Python	13/05/2021	207	195
3	TE	PHP & MySQL	19/09/2020	138	134
4	BE	Git	05/09/2020	198	138

Faculty:

Sr. No.	Name of the staff	Course for Test	Date of Test	Percentage
1	Vaishali Tupe	Arduino		90
2	Rupali Patil	Arduino		90
3	Shashikant Radke	Latex	05/09/2020	58.3
4	Pradip Mane	Java		90
5	Snehal Shewale	Java		65
6	Deepshikha Chaturvedi	Java		62.5
7	Namrata Manglani	Git		73.3
8	Priyanka Abhyankar	Git		53.3

Spoken Tutorial

Spoken Tutorial Toppers:

Mahavir Education Trust's
SHAH & ANCHOR
KUTCHHI ENGINEERING COLLEGE
CHEMBUR, MUMBAI-400088
AFFILIATED TO UNIVERSITY OF MUMBAI

Department of Computer Engineering
Spoken Tutorial Toppers (2020-21)

SPOKEN TUTORIAL
IIT Bombay

FE — 100% — Raj Singh (C Programming)
FE — 100% — Snehil Shah (C Programming)
FE — 97.5% — Aditya Sawant (C Programming)
SE — 90% — Ishita Sharma (Python 3.4.3)

SE — 85% — Rumman Ahmad (Python 3.4.3)
SE — 85% — Harshbhai Solanki (Python 3.4.3)
SE — 85% — Mayank Kantharia (Python 3.4.3)
TE — 100% — Ajinkya Naik (PHP & MySQL)
TE — 79.2% — Simran Jindal (PHP & MySQL)

BE — 90% — Utsavi Mhapsekar (Git)
BE — 76.7% — Prasanna Limaya (Git)
BE — 76.7% — Siddhi Aliya (Git)
BE — 76.7% — Jesica Bodas (Git)
BE — 76.7% — Anuj Shah (Git)

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Placement & Higher Studies

- 106 companies conducted the campus recruitment drive
- 145+ placement offers received
- Kartik Jain, Dishank Tak, Pratik Bhosale, Preet Karia, Femin Dharmashi, Hardik Bhanushali and Niraj Bamboli received direct appointments in TCS through Codevita.
- Chintan Patel and Vineet Patel received appointments in Larsen & Toubro Infotech Limited through Infinity Coding
- Hardik Bhanushali and Niraj Bamboli received 7 LPA offer from Tata Consultancy Services
- Karan Shah and Hiten Chawda received a 5.75 LPA offer from Zeus Learning
- 14 students received a 5.01 LPA offer from Larsen & Toubro Infotech Limited
- 17 students have secured admission for higher studies in reputed Universities and around 23 students are in the process.

No. of Students placed in companies	149
No. of students admitted to higher studies	17
No. of Students turned Entrepreneurs in engineering/technology	2
Total Students	168

Global Deftech Hackathon

The international event Global Deftech Hackathon was organized by The State Agency for Public Services and Social Innovations of the President of Republic of Azerbaijan and Innovation Center, Innovations Center LLC under the SAPSSI and NewSpace incubation center LLC on 4-6 December, 2020. Three Teams from Shah & Anchor Kutchhi Engineering College participated in the event and successfully completed the Round 1.

The event was organized by the Ministry of Defence Industry of Azerbaijan Republic, Special Communication and Information Security State Service, Idrak Technology Transfer Company, Turksat, E-gov Development Center, and general sponsorship of PASHA Bank.

The Hackathon featured discussions on Information Security, Digital Deceit and Propaganda, Defense Technology, Civil Defence Technology solutions, and the presentation of finished products or prototypes for evaluation within the 3 days.

Team Details

Sr. No.	Name of the Team Members	Year	Department	Team Name	Challenge	Title
1	Dhruv Chamaria (Team Lead)	Final year	Computer	Blue Eye Soft 2	Information Security	Keyword Extraction to Check Completeness of Privacy Policy
	Tulika Jain	Third Year	Computer			
	Linesh patil	Second Year	Computer			
2	Aman Jain (Team Lead)	Third Year	IT	Blue Eye Soft	Information Security	A Differentially Privatized data Model
	Rishabh Kothari	Third Year	Computer			
	Jay Mehta	Third Year	IT			
	Vedant Lakhani	Third Year	Computer			
	Shlok Jambusariya	Third Year	Computer			

Global Deftech Hackathon

3	Ms. Priyanka Ghule (Team Lead)	Faculty	Computer	Byte System	Information Security	Detection of Password File Breach
	Mr. Darshil Chedda	2019-2020 Batch	Computer			
	Mr. Bhavarth Joshi	Final Year	Computer			
	Ms. Siddhi Rane	Final Year	Computer			
	Ms. Rutvi Shah	Final Year	Computer			

Our Journey With Redhat

Our noble institution signed a Memorandum of Understanding (MoU) with Red Hat Linux and became an Academic Red Hat Linux partner. The Institute provides a golden opportunity for the RED HAT Linux International Certification course for the "Red Hat Certified System Administrator (RHCSE)" & "Red Hat Certified Engineer (RHCE)" examinations.

Our journey with the first ever batch of students began on 6th August 2019. The course was to build theoretical knowledge accompanied by abundant hands-on lab exercises, performance-based testing, instructor and management support. The training was conducted by Mr. Ramesh Kharat, CTO, PriarWeb Private Limited. Students completed their training with extreme enthusiasm and zeal to learn.

Veerapathiramoorthy Pillai from B.E. Computer Engineering appeared for the RHCSA examination on 10th November 2020 and became the second Red Hat Certified System Administrator of the institute with a perfect score of 300 on 300.

Staff Paper Publications

Sr. No.	Authors	Paper Title	Publication Title	Month	Year	ISSN
1	Nayan Patel, Omkar Mugdum, Tirthesh S. Pawar, Deepshikha Chaturvedi, Shashikant S. Radke	Smart Garbage Bin - A Waste Management System	Asian Journal of Convergence in Technology	DECEMBER	2020	2350-1146
2	Yash Shimpi, Hetvi Thanki, Manan Vora, Vaishali Chavan	Mobile Application To Classify Plant Leaf Diseases Using Convolutional Neural Network	International Conference on MACHINE LEARNING AND DATA ANALYTICS (ICMLDA 2020)	JULY	2020	-----
3	Vaishali Hirlekar, Arun Kumar	An Empirical Analysis of Fake Tweet Detection Using Statistical and Deep Learning Approaches	Information and Communication Technology for Competitive Strategies (ICTCS 2020)	DECEMBER	2020	-----
4	Aakash Jain, Parth Shah, Anish Punamiya, Shahzia Sayyad	Game Based Pedagogy System for Assessment using Features Like OCR and Speech-To-Text Recognition	International Journal of Emerging Science and Engineering (IJESE)	OCTOBER	2020	2319-6378
5	Sarika Rane, Lalit Lakshmanan, Yash Vora, Raj Ghate	A Survey of License Plate Recognition Methods Using Deep Learning	International Conference on Machine Learning and Data Analytics (ICMLDA 2020) Venue: Virtual Conference	JULY	2020	-----
6	Pinki Vishwakarma, Rekha More, Ishita D Joshi, Ashi Gala, Karan Patil, Kalpesh Rane	Social Economic Challenges Faced in the Agricultural Industry and How to Eradicate Them	Journal of University of Shanghai for Science and Technology	DECEMBER	2020	1007-6735
7	Yash Shah, Mihir Doshi, Aakash Darji, Vidyullata Devmane, Radhika Fulzele	Travel Made Easy: An Android Application	Journal of Seybold Report	SEPTEMBER	2020	1533-9211
8	Vidyullata Devmane, Priyanka Ghule, Jay Gosalia, Ninad Mankar, Gagandeep Singh Kochhar	Pocket Placement	Journal of Seybold Report	OCTOBER	2020	1533-9211
9	Dhruv Chamaria, Karan Chothani, Shivani Darekar, Viral Darji, Pinki Vishwakarma	Developing the rural economy structure in agriculture towards the betterment of India's economy	Journal of University of Shanghai for Science and Technology, Volume 22, Issue 12	DECEMBER	2020	-----
10	Vishwakarma Pinki, Tripathy Amiya and Srikanth V.	Designing a cryptosystem for data at rest encryption in mobile payments	International Journal of Applied Science and Engineering Vol. 17, pp. 373-382	DECEMBER	2020	-----
11	Shashikant S. Radke, Dr. Dhirendra S. Mishra	Review of Image Security approaches: Concepts, Issues, Challenges and Applications	Journal of University of Shanghai for Science and Technology, China	JUNE	2021	1007-6735
12	Vrushab Karia, Rujul Gala, Adit Shah, Dr. Pradip Suresh Mane, Mr. Shashikant Radke	Summarization of Video using NLP Techniques	International Conference on Convergence of Smart Technologies (IC2ST-2021), Aspire Research Foundation, Pune, Maharashtra, India	JANUARY	2021	-----
13	Deepshikha Chaturvedi, Shashikant Radke, Malay Shah, Prerna Rao, Hitarth Dani	Automated System for Student's Intellectual Performance Prediction	International Journal of Grid and Distributed Computing	FEBRUARY	2021	2005-4262
14	Verma Navneet Vimal, Vora Rushabh, Shah Pranav, Shashikant Radke	Invoice Data Capture using OCR	Journal of Huazhong University of Science and Technology	JUNE	2021	1671-4512
15	Heet Gala, Harshita Dhiman, Palash Jain, Krushmi Madkaikar, Shashikant Radke	FACE RECOGNIZATION FOR ATTENDANCE MARKING WITH EMOTION DETECTION	Journal of Huazhong University of Science and Technology	MAY	2021	1671-4512
16	Janak Thakkar, Veerapathiramoorthy Pillai, Parth Panchal	Automatic Question Generation and Evaluation	Journal of University of Shanghai of Science & Technology	MAY	2021	1007-6735

Staff Paper Publications

Sr. No.	Authors	Paper Title	Publication Title	Month	Year	ISSN
17	Patil Shweta, Dishank Tak, Anshul Tated, Devansh Bhanushali, Avnit Singh Banga	IIQA: A Learning Platform with Interactive Image Question Answering System using VQA and VQG	Journal of Huazhong University of Science and Technology	MAY	2021	1671-4512
18	Utsavi Mhapsekar, Bhumi Lalan, Riddhi Vyas, Akash Kotak4, Manoj Dhande	Criminal Identification using Deep Learning	Journal of Huazhong University of Science and Technology	JUNE	2021	1671-4512
19	Manoj Dhande, Jay bhatt, Paras Luvani, Yash Shah, Mehulkumar Tandel	Image Encryption using Dynamic DNACryptography	International Research Journal of Engineering and Technology (IRJET)	MAY	2021	2395-0056
20	Manoj Dhande, Yash Gupte, Parth Gite, Aman Bhat	Smart Energy Monitoring System Using IoT	International Journal of Research in Engineering, Science and Management	MAY	2021	2581-5792
21	Chaitanya Patil, Kshitij Waghmare, Sumit Akoliya, Tina Maru	ChatBot Detection using Text Classification	International Research Journal of Engineering and Technology (IRJET)	MAY	2021	2395-0056
22	Ruksa Gazi, Needhi Kore, Raj Jani, Manjyot Singh, Deepti Pawar	Deepfake Detection using Eye Blinking	International Research Journal of Engineering and Technology	JUNE	2021	e-ISSN 2395-0056, p-ISSN 2395-0072
23	Priyanka Anil Ghule,Shilpa Kalantri, Bhavarth Joshi, Rutvi Shah ,Sidhhi Rane	Decentralized Stock Market using Blockchain	2021 International Conference on Intelligent Technologies (CONIT) Karnataka, India. June 25-27, 2021	JUNE	2021	-----
24	Deepti Nikumbh, Monika Kannojiya	Sentimental Analysis on Amazon's Alexa Reviews using ML and DL approach: A Comparative study	International Conference on Convergence of Smart Technologies	JANUARY	2021	2233-7857IJFGCN
25	Siddhi Kadam, Grishma Gupta, Pratiksha Ingavale, Karuna Borhade	TECHCRUIT – A Technical Recruitment & Selection System	International Research Journal of Engineering and Technology (IRJET)	APRIL	2021	2395-0056
26	Pallavi Khodke, Juhi Shah, Siddhi Salvi, Nausheenbanu Shaikh	Phishing website detection based on URL	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	JUNE	2021	2456-3307
27	Vaishali Bhanudas Kosamkar, Manan Patel, Deepesh Naik ,Ayush Chitnis	I-Umpire prediction, analysis and decision making review system based on their domain using twoData structure-decision tree and linear regression	International Journal of Scientific Research in Engineering and Management (IJSREM)	APRIL	2021	ISSN: 2582-3930
28	Vaishali Chavan, Kinnary Panchal, Dhruvisha Khara, Taher Gari	Companion: Easy Navigation App for Visually Impaired Persons	The IEEE International Conference on Intelligent Technologies, Hubballi, India (CONIT'21)	JUNE	2021	-----
29	Ishita Patel, Prutha Kurtadkar, Vishabh Julka, Ishita Sharma, Bhakti Sonawane	Development And Evaluation Of A Web-Based Simulation For Computer Graphics For Distance Learning	International Journal of Research and Analytical Reviews (IJRAR)	APRIL	2021	-----
30	Vishwakarma Pinki,Tripathy Amiya and Srikanth V	Fraud Detection in NFC-enabled Mobile Payments: A Comparative Analysis	Innovative Data Communication Technologies and Application Lecture Notes on Data Engineering and Communications Technologies, vol 59. Springer, Singapore.	FEBRUARY	2021	-----

Staff Paper Publications

Sr. No.	Authors	Paper Title	Publication Title	Month	Year	ISSN
31	Vishwakarma Pinki,Tripathy Amiya and Srikanth V.	Cryptanalysis of Near Field Communication Based Authentication Protocol for Mobile Payment System	Wireless Personal Communications, Springer	JUNE	2021	-----
32	Chintan Chheda; Aayush Doshi; Angad Gosain; V.C. Kotak; Deepshikha Chaturvedi	Analysis of Autism and its Characteristics	2020 IEEE International Conference for Innovation in Technology (INOCON)	JANUARY	2021	978-1-7281-9745-6
33	Deepshikha Chaturvedi, Niraj Bamboli, Hiten Chawda, Sneha Korla	Pothole Detection System using Sensors and Image Processing	International Conference on Intelligent Technologies (CONIT 2021)	JUNE	2021	-----
34	Pallavi Khodke, Priyanka Ghule, Rohit Parmar, Dheer Modi, Vishal Avduth	Soft Computing Techniques based Diet Recommendation System	International Conference on Convergence of Smart Technologies (IC2ST-2021), Aspire Research Foundation, Pune, Maharashtra, India	JANUARY	2021	2233-7857

Student Paper Publications

Sr. No.	Name of the Student	Title of the Paper	Conference/Journal Details	ISSN/Event Date	Guide Name
1	Lalit Lakshmanan, Ghate Raj Avinash, Vora Yash Suresh	A Survey of License Plate Recognition Methods Using Deep Learning	International Conference on Machine Learning and Data Analytics (ICMLDA 2020) Sri Venkateswara	July 18-19, 2020	Ms. Sarika Rane
2	Yash Shimpi, Hetvi Thanki, Manan Vora	Detection and Clasiification of Leaf Disease	International Conference on Machine Learning and Data Analytics	July 18th-19th, 2020	Ms. Vaishali Chavan
3	Aakash Darji, Mihir Doshi, Yash Mukesh Shah	Travel Made Easy: An Android Application	Seybold Report, Seyboldjournal.com	ISSN: 1533-9211, Volume 15, Issue 9 -2020, Paper ID:SBR/0920-409	Dr.Vidyullata Devmane, Ms. Radhika Fulzele
4	Gagandeep Singh Kochhar, Ninad Mankar, Jay Gosalia	Pocket Placement	Seybold Report, Seyboldjournal.com	Volume 15, Issue 9 -2020, ISSN: 1533-9211, Paper ID:SBR/1020-06	Dr.Vidyullata Devmane, Ms. Priyanka Ghule
5	Nayan Patel, Omkar Mugdum, Tirtesh Pawar	Smart Garbage Bin - A Waste Management System	2020 IEEE International Conference for Innovation in Technology (INOCON) Bangaluru, India.	Nov 6-8, 2020	Ms. Deepshikha Chaturvedi
6	Chintan Chheda, Aayush Doshi, Angad Gosain	Analysis of Autism and its Characteristics	2020 IEEE International Conference for Innovation in Technology (INOCON) Bangaluru, India.	Nov 6-8, 2020	Dr. V. C. Kotak
7	Dishank Tank, Anshul Tated, Devansh Bhanushali, Avnit Singh Bangha	IIQA: A Learning Platform with Interactive Image Question Answering System using VQA and VQG	Journal of Huazhong University of Science and Technology	Volume 50, Issue 5, ISSN-1671-4512	Ms. Shweta Patil
8	Unnati Shah, Ishita Dave, Jeel Malde	Maintaining Privacy in Medical Imaging with Federated Learning, Deep Learning, Differential Privacy, and Encrypted Computation	2021 6th International Conference for Convergence in Technology (I2CT)	ISBN: 978-1-7281-8877-5	Jalpa Mehta
9	Rohan Sapra, Ria Sapra, Virat Gheware	Face Mask Detection	International Journal of Scientific Research in Computer Sciences and Engineering (IJSRCSE)	ISSN-2320-7639	--
10	Manan Patel, Deepesh Naik, Ayush Chitnis	I-Umpire prediction, analysis and decision making review system based on their domain using twoData structure-decision tree and linear regression	International Journal of Scientific Research in Engineering and Management (IJSREM)	ISSN-2582-3930	Vaishali Kosamkar
11	Ishita Patel, Ishita Sharma, Vishab Julka	Development And Evaluation of A Web-Based Simulation For Computer Graphics For Distance Learning	International Journal of Research and Analytical Reviews (IJRAR)	ISSN-2349-5138	Bhakti Sonawane
12	Parth Panchal, Janak Thakkar, Veerapathiramoorthy Pillai	Automatic Question Generation and Evaluation	Journal of University of Shanghai for Science and Technology	ISSN-1007-6735	Shweta Patil
13	Siddhi Kadam, Grishma Gupta, Pratiksha Ingavale	Techcruit - A Technical Recruitment & Selection System	International Research Journal of Engineering and Technology (IRJET)	ISSN-23950056	Karuna Borhade

Student Paper Publications

14	Chaitanya Patil, Kshitij Waghmare, Sumit Akoliya	ChatBot Detection using Text Classification	International Research Journal of Engineering and Technology	ISSN-23950072	Tina Maru
15	Ruksa Gazi, Raj Jani, Manjyot Singh	Deepfake Detection using Eye Blinking	International Research Journal of Engineering and Technology	ISSN-2395-0056 (E) / 2395-0072 (P)	Deepti Pawar
16	Forum Patel	Comparative Study of Privacy Preserving Contact Tracing on Digital Platforms	2020 International Conference on Computational Intelligence (ICCI), OCT 8-9, 2020, Perak, Malaysia	ISSN-978-1-5386-5541-2/18/	Dr.Nilakshi Jain
17	Rutvi Bheda, Darsh Bhimani, Femin Dharamshi, Smit Sheth	Educational Advancements in the Field of Augmented Reality and Virtual Reality	International Conference on Communication, Information & Computing Technology	ISBN:978-1-6654-4716-4	Chetan Mahajan, Swati Gajbhiye, Dhanashree Toradmalle
18	Ishita D Joshi, Ashi Gala, Karan Patil, Kalpesh Rane	Social Economic Challenges Faced in the Agricultural Industry and How to Eradicate Them	Journal of University of Shanghai for Science and Technology	ISSN: 1007-6735	Pinki Vishwakarma, Rekha More
19	Prerna Rao, Malay Shah, Hitarth Dani	Automated System for Student's Intellectual Performance Prediction	International Journal of Grid and Distributed Computing	Feb 2021	Deepshikha Chaturvedi, Shashikant Radake
20	Aakash Jain, Parth Shah, Anish Punamiya	Game Based Pedagogy System for Assessment using Features Like OCR and Speech-To-Text Recognition	International Journal of Emerging Science and Engineering (IJESE)	ISSN: 2319-6378	Shahzia Sayyad
21	Dhruv Chamaria, Karan Chothani, Shivani Darekar, Viral Darji	Developing the rural economy structure in agriculture towards the betterment of India's economy	Journal of University of Shanghai for Science and Technology, Volume 22, Issue 12	ISSN: 1007-6735	Pinki Vishwakarma
22	Vrushab Karia, Rujul Gala, Adit Shah,	Summarization of Video using NLP Techniques	International Journal of Grid and Distributed Computing	Jan-21	Dr. Pradip Suresh Mane, Mr. Shashikant Radke
23	Verma Navneet Vimal, Vora Rushabh, Shah Pranav	Invoice Data Capture using OCR	Journal of Huazhong University of Science and Technology	ISSN: 1671-4512	Shashikant Radke
24	Heet Gala, Harshita Dhiman, Palash Jain, Krushmi Madkaikar	Face Recognization for Attendance Marking with Emotion Detection	Journal of Huazhong University of Science and Technology	ISSN: 1671-4512	Shashikant Radke
25	Utsavi Mhapsekar, Bhumi Lalan, Riddhi Vyas, Akash Kotak	Criminal Identification using Deep Learning	Journal of Huazhong University of Science and Technology	ISSN: 1671-4512	Manoj Dhande
26	Bhavarth Joshi, Rutvi Shah, Sidhhi Rane	Decentralized Stock Market using Blockchain	2021 International Conference on Intelligent Technologies (CONIT) Karnataka, India. June 25-27, 2021	Jun-21	Priyanka Anil Ghule,Shilpa Kalantri
27	Juhi Shah, Siddhi Salvi, Nausheenbanu Shaikh	Phishing website detection based on URL	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	ISSN: 2456-3307	Pallavi Khodke
28	Kinnary Panchal, Dhruvisha Khara, Taher Gari	Companion: Easy Navigation App for Visually Impaired Persons	The IEEE International Conference on Intelligent Technologies, Hubballi, India (CONIT'21)	Jun-21	Vaishali Chavan
29	Niraj Bamboli, Hiten Chawda, Sneha Korla	Pothole Detection System using Sensors and Image Processing	International Conference on Intelligent Technologies (CONIT 2021)	Jun-21	Deepshikha Chaturvedi

Student Paper Publications

30	Rohit Parmar, Dheer Modi, Vishal Avduth	Soft Computing Techniques based Diet Recommendation System	International Conference on Convergence of Smart Technologies (IC2ST-2021), Aspire Research Foundation, Pune, Maharashtra, India	Jan-21	Pallavi Khodke, Priyanka Ghule
31	Parth Mota, Krupa Panchal, Sohail Abbas	Proximity Based Mobile Payment System	GIS Science Journal	ISSN: 1869-9391	Ms. Pinki Vishwakarma
32	Khadija Shaikh, Jinal panchal, Surobjit Deb	Plant Disease Detection System	International Journal of Research in Engineering, Science and Management	ISSN: 2581-792	Mr. Amol Dhumal
33	Harsh Zota, Ved Bhanushali, Krimesh Shah	A Mobile Application for Handwritten Text Recognition	JETIR	ISSN: 2349-5162	Ms. Manimala Mahato

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Articles & Artwork

Freeing up the space

I know it hurts, to be stuck inside,
Especially due to recurring thoughts
These thoughts tend to clog up further
Creating messy, entangled knots

It takes no time to convince yourself
That un-messing this would take forever
That the trap is now your 'place to be'
That you're getting out of it never

A horrible place to be it is, I know
Unlike wine, it doesn't get better with age
It's like you started with a comic book
But it's turning into a tragedy with every page

All this fuss inside that little head!
Maybe, it's time to free up the space
So stop trying to detangle, cut the strings
instead
And there won't exist any cage in the first place

- Sanober Khan

Articles & Artwork

Wordplay

I play around with words. Vice versa
as well.
For sometimes it's funny how they sound,
Opposite of what I want them to,
No matter how carefully I jot them down.
At times, I be writing them with a smile
While they stare at me with a frown.

- Sanober Khan

Mundane

Oftentimes,
those who disintegrated
in the very blackhole, they carried within
will have the audacity to tell you that,
you're too mundane to be written in the stars about.

- Sanober Khan

Articles & Artwork

- Satyam Nayan Shah

Articles & Artwork

- Asmita Vijay Kharat

Articles & Artwork

Akshat Paras Mehta
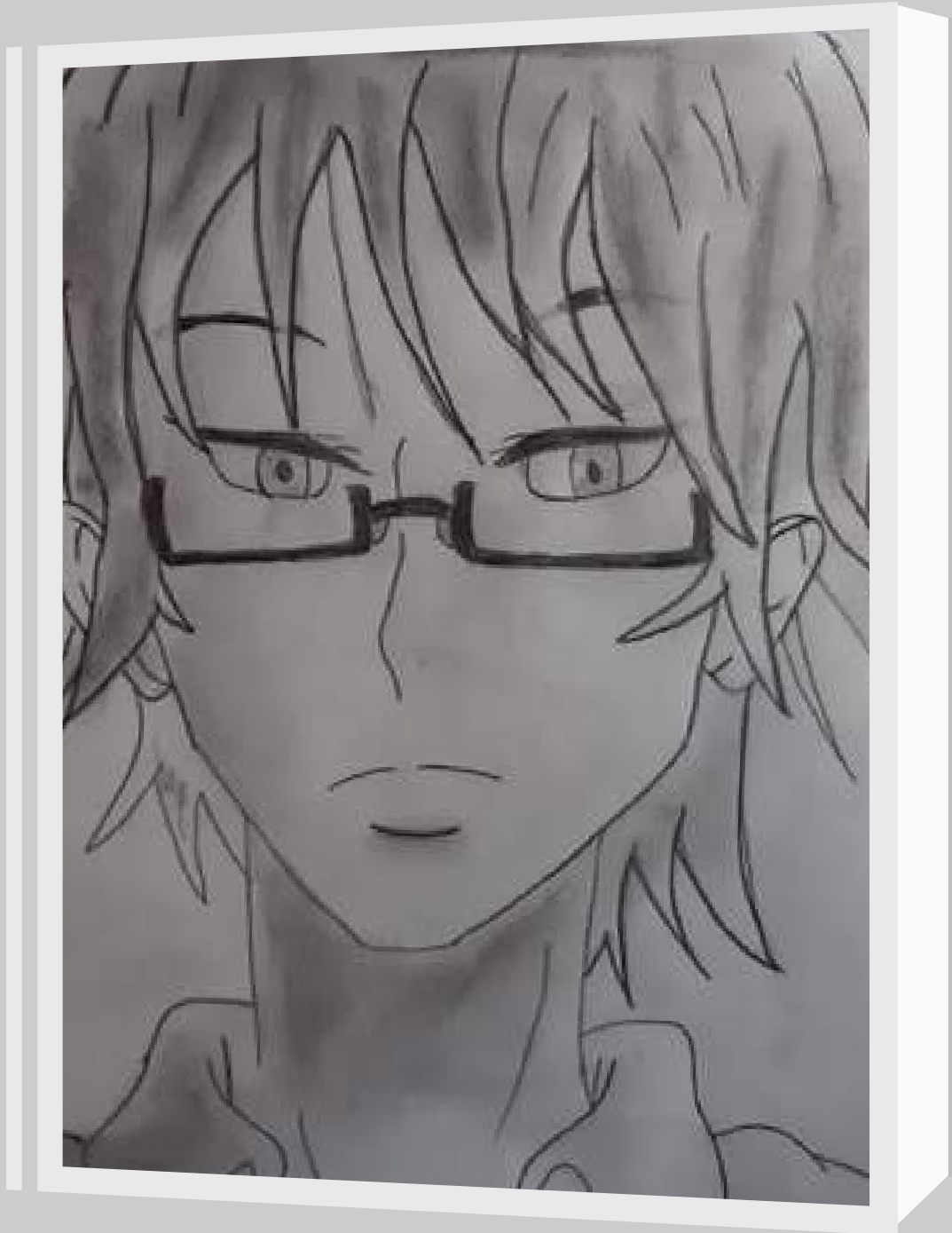
Articles & Artwork

- Aditya Sanjay Jadhav

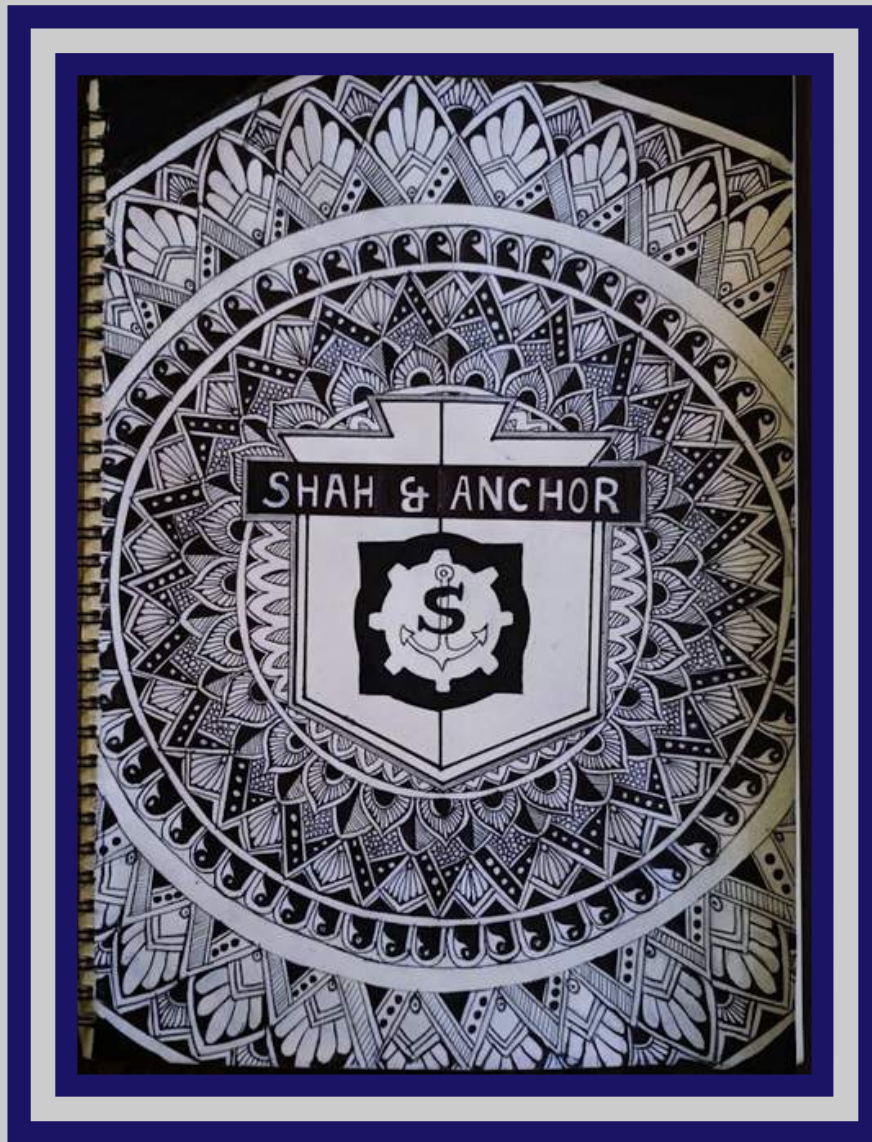# Articles & Artwork

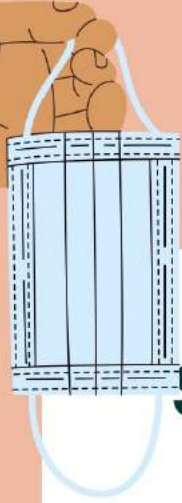- Satyam Nayan Shah

Articles & Artwork

- Aditya Sanjay Jadhav

Articles & Artwork

- Asmita Vijay Kharat

Stop Covid - Break the chain

The Large Virus Family, Covid
Severe diseases it did spread.
Fever, shortness of breath,
cough are some ways to find,
if you need aid!
Usage of face mask,
yet proves to be an important
task ;
Carelessness is critical,
Vaccination is crucial !

Prevention is always Better
than Cure!!

-Yashika
Shetty

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Pof. Vidyullata
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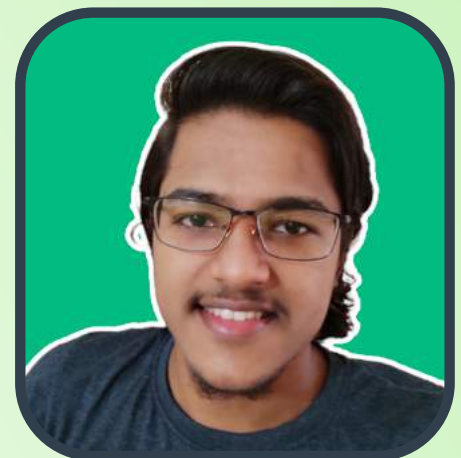**Rutuja Kumbhar**
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Happy Reading!

Resources are limited.
Creativity is not.