



Atharva College Of Engineering

Atharva Educational Complex , Malad Marve Road, Charkop Naka,
Malad (W), Mumbai - 400095, India

Department Of Computer Engineering

Insight

Run smarter.

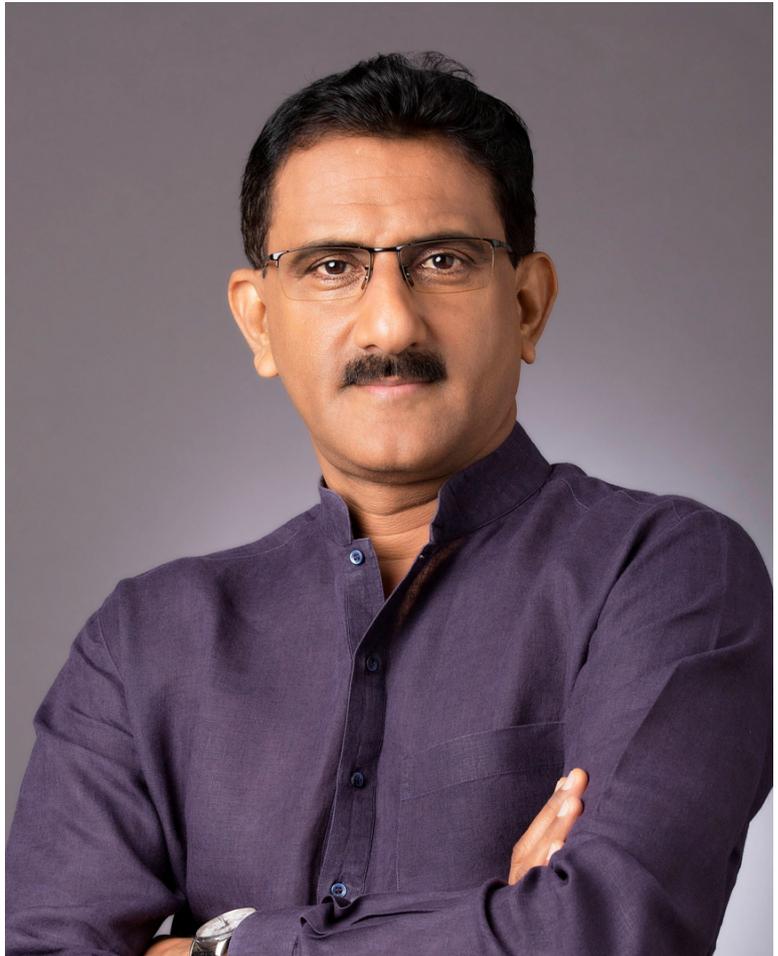
Atharva

College Of Engineering

Jan - Jun 2021

ACKNOWLEDGEMENT

We express our heartfelt gratitude to honorable **Shri. Sunil Rane** Sir who has always been a source of motivation to any kinds of resourceful endeavors by the faculty members and students. A real visionary, his exemplary leadership and astute foresight has driven the faculty members and students to challenge their potential holistically contributing towards the nurturing of the great vision of Atharva College of Engineering.



SHRI. SUNIL RANE SIR
Executive - President
Atharva Group of Institutes &
Founder Secretary - AET

ACKNOWLEDGEMENTS

We thank our Director Dr. P.N. Nemade for his unwavering support and unceasing encouragement. We are indebted for his unstinting assistance in making it possible for us to publish the magazine.

We also would like to thank our Principal Dr. S.P.Kallurkar, our mentor, without whom the endeavor would not have been possible. His unflinching support in any constructive venture, continuous guidance, meticulous scrutiny and thoughtful feedback has always been a motivation to us.



DR. P.N.NEMADE
Director
Atharva College of
Engineering



Dr. S.P.Kallurkar
Principal
Atharva College of
Engineering

FROM THE EDITORIAL BOARD

We are delighted to bring you the issue of Insights - the e- magazine of Computer Engineering department. The overwhelming responses and positive feedback that we received for the inaugural issue of Insights has given us the drive and motivation to take it forward for the benefit of all the readers. As in the first issue, Insights will serve to augment awareness among the readers on latest technological developments and foster improved interaction and integration among faculty members and students. It will also serve as a platform to chronicle various activities of the department. In this issue, besides the sections in the first issue we have added Alumni Corner also wherein the passed out students of the Computer Engineering Department will be given a chance to share their views after leaving this college.



Prof. Ranjita Asati



Prof. Varsha Salunkhe



Prof. Jignesh Patel

We take this opportunity to thank all the generous contributors for this issue of Insights. We welcome your valuable suggestions about this e- magazine and continue to look forward to your co-operation and support to further improvise and make it a continued success. We would like to appreciate the efforts taken by Dr. Suvarna Pansambal who has been a constant back end contributor for this magazine. Our heartfelt thanks to her for being there to help us out in smooth publishing of the Magazine.

MESSAGE FROM HOD

Greetings from Computer Engineering Department!!! Computer Engineering is a versatile and evergreen branch of engineering with current trends in various fields like IOT (Internet of Things), artificial intelligence, robotics, machine learning, virtual reality, cognitive technology, cloud computing, intelligent apps. blockchain etc. Department of Computer Engineering at Atharva College of Engineering has achieved 100% results for final-year students last year. The Department started in the year 1999 and currently has a vibrant student body numbering around 500 and a faculty numbering nearly 18. It seeks to combine excellence in education with service to the industry.

The department has well-qualified and dedicated faculty with well-developed laboratories. We impart quality engineering education through sound theoretical knowledge, hands-on laboratory as well as computational skills and exposure to recent technologies by visiting industries & expert talks. The well-equipped labs include a state-of-the-art iMac lab, virtual software, virtual labs, and NPTEL lectures provided by the college which gives a platform and tremendous opportunity for the students to keep themselves updated with the latest technologies. 'Insights' the e-magazine is one among the many endeavors taken by the Department to mold the students on all fronts and make them industry-ready. It has commendable initiatives for student growth which include, training and placement activities right from the second year, spoken tutorials project by IIT-B, conducting technical events under professional bodies such as the CSI Chapter, IEEE, and many more.

MESSAGE FROM HOD

The college is geared up for International conferences, the faculty members and students strived relentlessly in coordinating the activities and publishing papers of high technical value.

To instill academics in Computer Engineering, the department provides a conducive and disciplined environment for lifelong learning. Students are nurtured to build the right attitude, extend and investigate software systems in all domains. We provide a conducive and disciplined environment for lifelong learning. Students with the help of faculties are constantly striving to excel to show a high level of professional competence & make incredible mark nationally & internationally. Several of our alumni hold important positions in the industry and academia worldwide. Students have been recently placed, both in India and abroad, in several leading national and international companies. All these achievements of the department would not have been possible without the enthusiastic and dedicated work of our past and present faculty members. I wish good luck to all students, faculty and look forward to your kind patronage.



DR. Suvarna Pansambal
HOD, CMPN Dept.
Atharva College of
Engineering

STUDENT Toppers

SE

POSITION	NAME OF STUDENTS	Pointers	YEAR OF PASSING
FIRST	SAWANT AARYAN UMESH	10	2021
SECOND	DHUMAL SNEHA KRISHNA	10	2021
SECOND	JADHAV RUTUJA VIJAY	10	2021
THIRD	GHOLE AAKASH RAJESH	10	2021

STUDENT Toppers

TE

POSITION	NAME OF STUDENTS	Pointers	YEAR OF PASSING
FIRST	VAGHASIA SHREYAS RAMESHBHAI	10	2021
SECOND	DAS ANKIT KUMAR DILIP KUMAR	10	2021
THIRD	GONJARI SHREYA SANDESH	10	2021

STUDENT Toppers

BE

POSITION	NAME OF STUDENTS	Pointers	YEAR OF PASSING
FIRST	AJGAONKAR AMOL VIDHYADHAR	9.66	2021
SECOND	ERLA MEGHNA GAJANAND	9.58	2021
THIRD	DAMANI KEDAR PARESH	9.52	2021

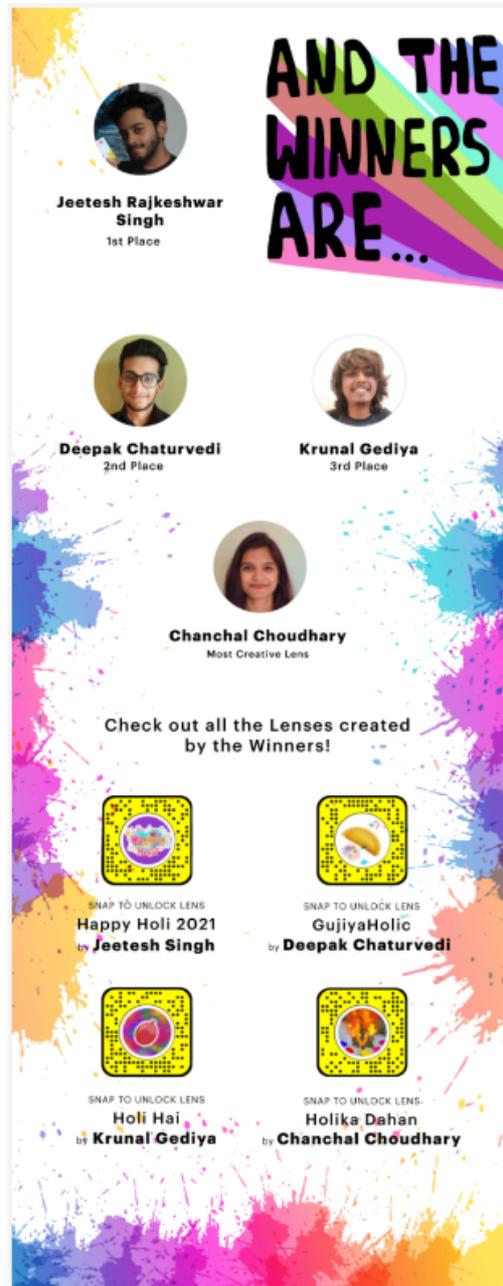
STUDENT ACHIEVEMENTS

Lensathon

Department of Computer Engineering is Happy to Inform that our students have won Snapchat Holi Lensathon Event by Skillenza. It was an all over India Snapchat Hackathon Event.

Creating Amazing Snapchat Lenses to Celebrate Holi in Augmented Reality.

- Secured *First* Place...
- *Jeetesh Singh* (BE CMPN)
- Secured *Third* Place...
- *Krunal Gediya* (Alumni, Batch 2020)



STUDENT ACHIEVEMENTS

Hackathon

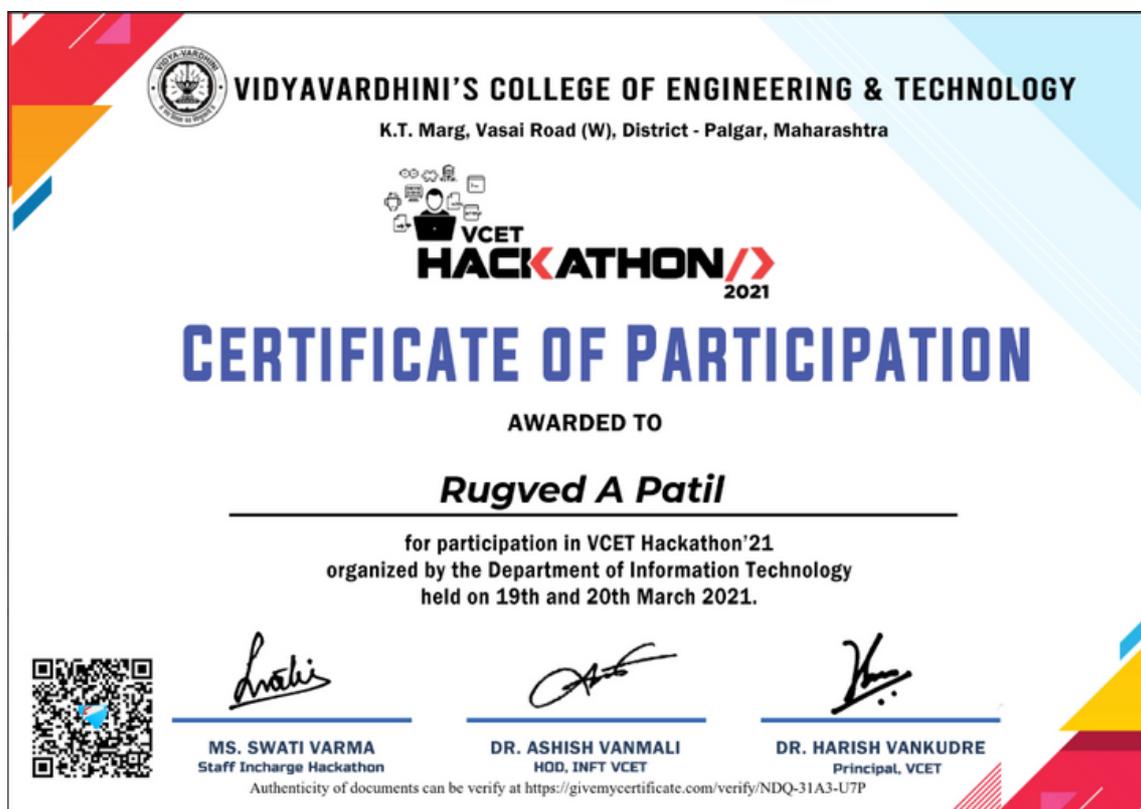
Our SE student, Nachiketa Ratnakar Patil participated in Code Innovation Series Hackathon and Programming Contest - FEYNWICK organized by VIT & IncubateIND and KJSIEIT & Hacker Rank respectively.



STUDENT ACHIEVEMENTS

Hackathon

Our SE student, Rugved Amol Patil participated in VCET Hackathon organized by Vidyavardhini College of Engineering and Technology.



CREATIVE CORNER





Cloud Computing:

Cloud computing has revolutionized the way businesses and individuals access and utilize computing resources. By enabling data storage, application running, and computing power access over the internet on remote servers managed by service providers, cloud computing offers unprecedented advantages.

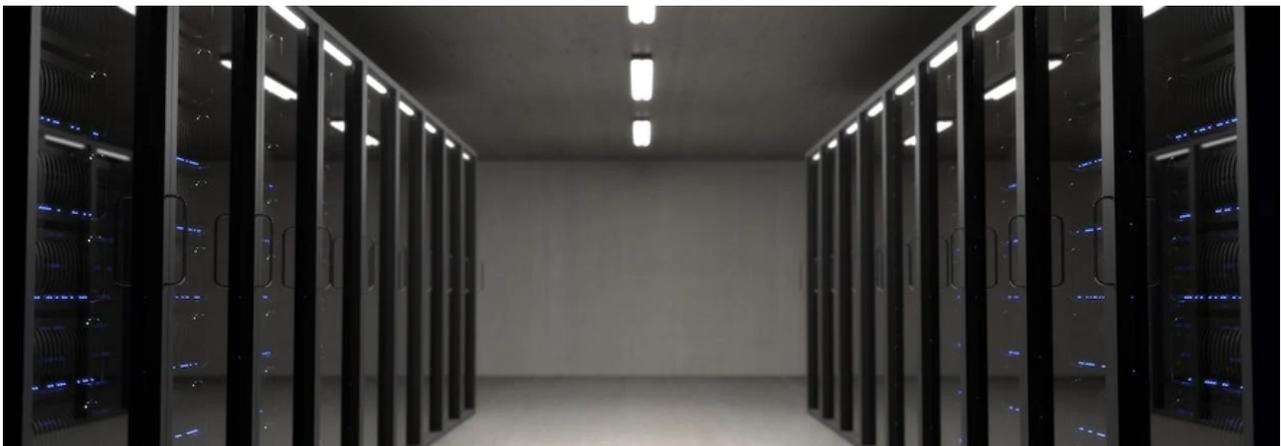
Scalability stands as one of its key benefits, allowing businesses to adjust resources according to demand fluctuations without significant hardware investments. This adaptability ensures cost-effectiveness, as users only pay for the resources they consume. Additionally, cloud services' accessibility from anywhere with an internet connection promotes collaboration and facilitates remote work capabilities, a crucial aspect in today's interconnected world.

Moreover, cloud providers offer robust infrastructure and redundancy, ensuring high availability and minimal downtime, making cloud services highly reliable. They also prioritize security, implementing advanced protocols to protect data from unauthorized access. This emphasis on data security surpasses what many organizations can achieve with on-premises solutions.

Innovation thrives in cloud computing, as developers can deploy and test applications quickly without worrying about underlying hardware. This accelerated development cycle empowers businesses to stay agile and responsive to market demands.

Across industries, cloud computing has become the backbone, powering everything from email services and file storage to sophisticated machine learning algorithms and artificial intelligence applications. Its adoption drives digital transformation, offering businesses a competitive edge by enhancing agility, efficiency, and scalability.

While cloud computing presents numerous benefits, concerns about data privacy, sovereignty, and vendor lock-in persist. Organizations must carefully assess their needs, choose reputable providers, and implement robust security practices to maximize cloud computing's transformative potential. With thoughtful planning and execution, cloud computing empowers businesses and individuals to confidently embrace the digital era, seizing opportunities for growth and innovation.



Prof. Jignesh Patel

Nanotechnology

Nanotechnology, working at the atomic scale (1 to 100 nanometers), holds enormous potential across industries. In medicine, it enables precise drug delivery and disease detection. Nanoscale components boost electronics, while nanostructured materials enhance energy production and storage. Environmental remediation benefits from nanomaterials in water purification and air filtration.

Though nanotechnology faces challenges like safety and ethics, responsible development promises transformative innovations. Its impact on society is yet to be fully realized. Ongoing research can harness nanotechnology's power to address the pressing challenges of our time.

In the medical field, nanotechnology facilitates targeted drug delivery, reducing side effects and improving treatment outcomes. Nanosensors detect diseases at early stages, improving diagnostics.

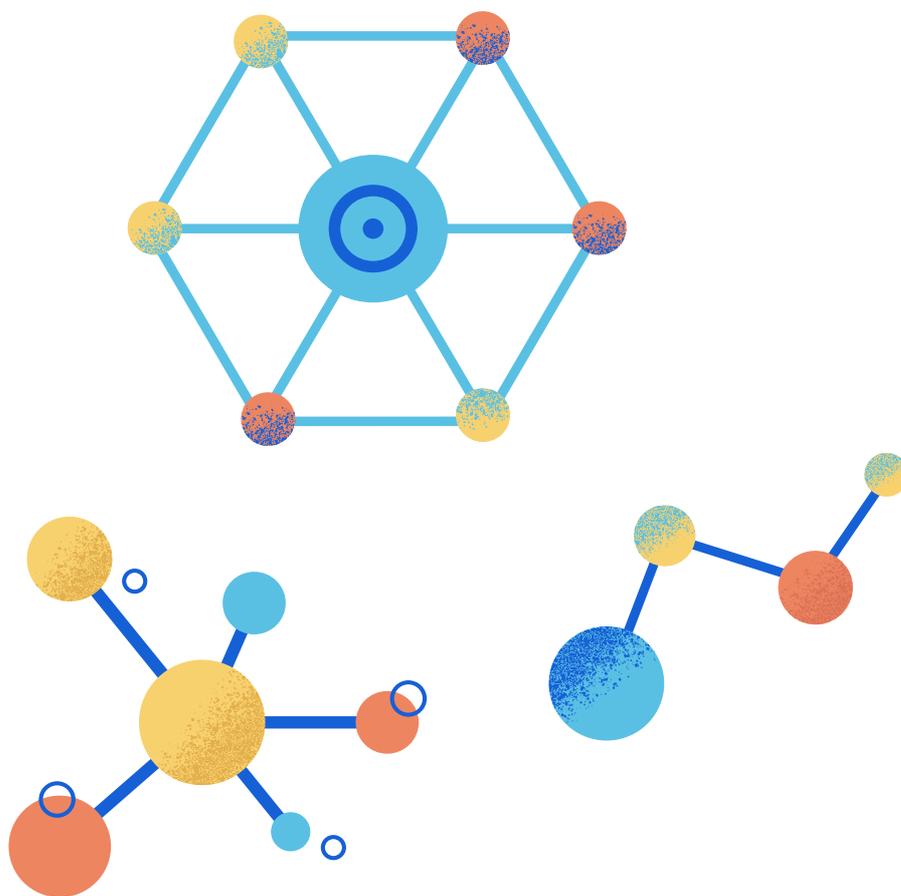
In electronics, nanoscale materials open doors to faster, more efficient devices. Nanowires and quantum dots offer potential replacements for traditional components.

Advancements in renewable energy are possible through nanotechnology, with improved solar cells and energy storage technologies.

Environmental applications of nanotechnology aid pollution control and remediation, addressing environmental challenges more effectively.

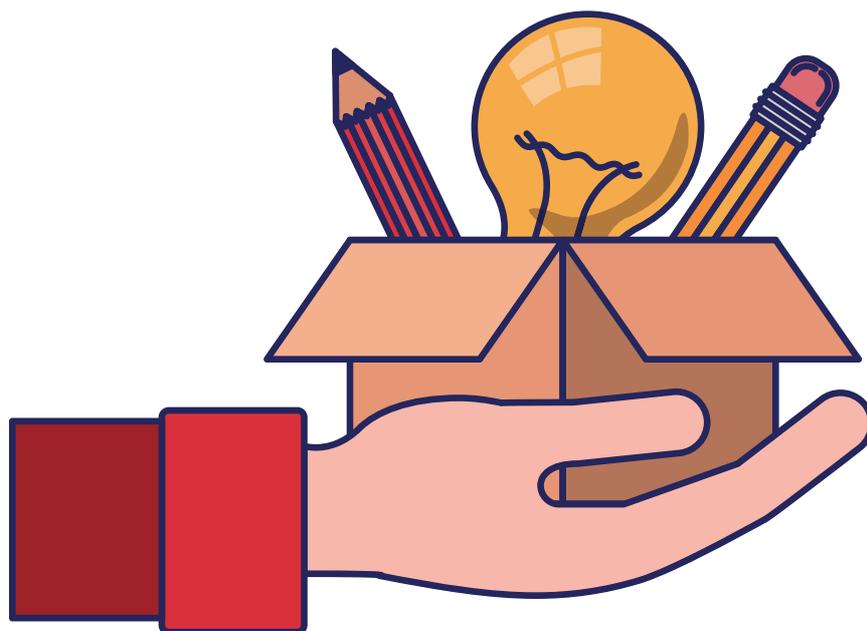
Nanomaterials offer lighter, stronger, and more durable alternatives for various industries like aerospace and manufacturing.

Overall, nanotechnology's tiny tech holds the key to solving big problems, revolutionizing various sectors and positively impacting our lives in unimaginable ways.



Mahendra Patel

CREATIVE CORNER



How to Manage Stress During Exam Season

Exam season can be a challenging time for students, with pressure and anxiety mounting as the need to perform well intensifies. While some stress can be motivational, excessive pressure can negatively impact physical and mental well-being, hindering academic performance. To succeed during this crucial period, effective stress management is essential. Creating a realistic study plan is the first step in managing stress during exams. Divide the syllabus into manageable chunks and schedule regular study sessions, avoiding last-minute cramming. A well-structured plan will reduce overwhelm and keep you organized.

Prioritize self-care during this taxing period. Ensure you get 7-8 hours of sleep each night, engage in regular exercise, and maintain a balanced diet to keep your mind and body in top condition.

Practice mindfulness and relaxation techniques to alleviate tension and regain focus. Short breaks for meditation or deep breathing exercises can make a significant difference.

Avoid procrastination by identifying and minimizing distractions. Set specific study hours and limit electronic device usage to stay disciplined and on track.

Seek support from friends and family, sharing your feelings and concerns. Emotional support and encouragement can lighten the burden and motivate you to stay focused.

Recognize your stress signals, such as irritability or physical symptoms, and address them early to prevent overwhelming stress.

Visualize success during exams, boosting your confidence and reducing anxiety.

Break tasks into smaller steps, celebrating each milestone to stay motivated and maintain a sense of accomplishment.

Utilize past papers and mock tests to familiarize yourself with the exam format, improve time management skills, and identify areas for further revision.

By implementing these stress management strategies, you can navigate exam season with resilience, ensuring a successful academic performance while also prioritizing your mental and physical well-being.



Prof. Bhavana Arora



Seeds of Courage: Overcoming Fear and Doubt

In the heart's garden, seeds of might,
Concealed in shadows, out of sight.
Yet when life's trials come to call,
They sprout as courage, standing tall.

Nourished by hope, they break the ground,
In fear's embrace, no longer bound.
With every step, they grow in power,
O'ercoming doubt, blooming like a flower.

In daring leaps, they take their flight,
Guiding us through the darkest night.
Emboldened souls, they lead the way,
Seeds of courage, here to stay.

With each challenge that we face,
Their strength within, we shall embrace.
As we sow courage with each stride,
Doubts and fears shall step aside.



Dev Shah

Embracing Change: Turning Challenges into Opportunities

Amidst winds of change, we stand,
With courage and dreams in hand.
Challenges may loom, tall and wide,
But within them, opportunities reside.

With patience and trust, we evolve,
Transforming like the moon's resolve.
Embracing change, we soar and rise,
Unfolding wings, to touch the skies.

In every hurdle, we find our chance,
To grow and learn, to enhance.
With open hearts and minds anew,
We turn challenges into what we pursue.

For change is not the end, but the start,
A canvas of hope, a work of art.
With each shift, we find our way,
Turning challenges into a brighter day.

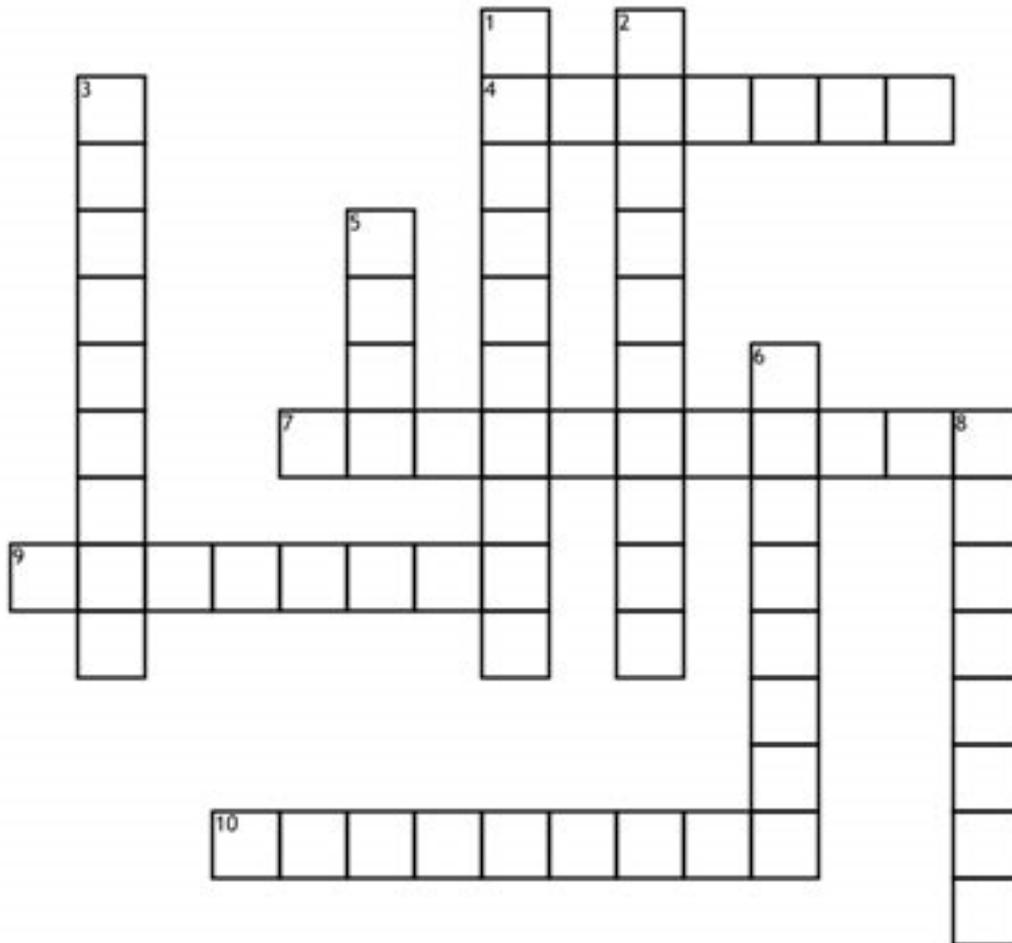
Tejal Nimje



CROSSWORD

Name: _____ Date: _____

Choice Words



Across

- 4. To waste away or fail to develop
- 7. To valuable or great to be measured
- 9. To impress upon or teach by frequent repetition
- 10. Salary or fees for work done; compensation

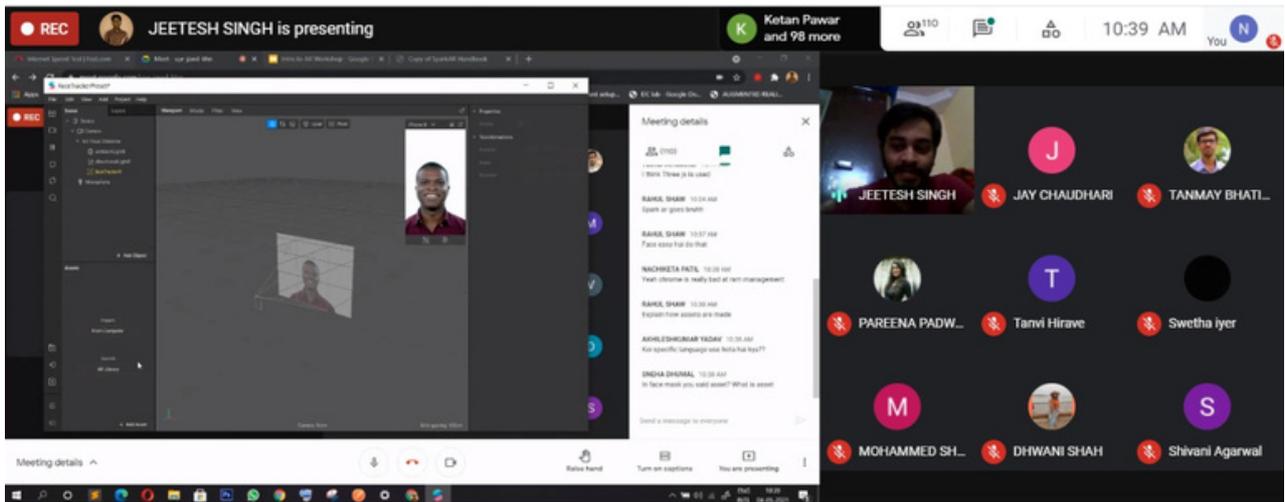
Down

- 1. Lacking brightness or vitality; without spirit or enthusiasm

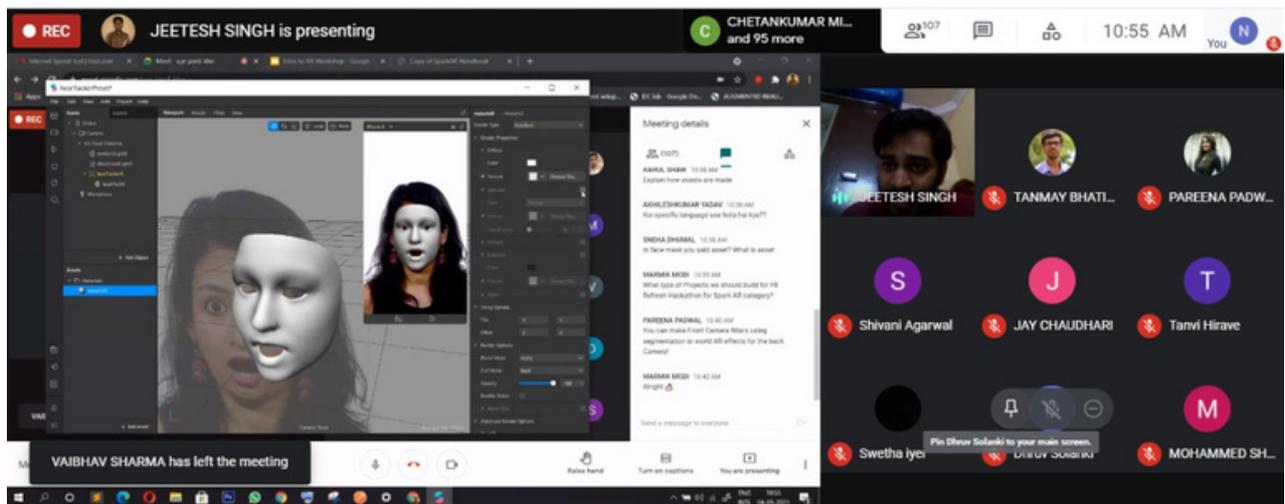
- 2. Extremely large in bulk; quantity or degree
- 3. Beginning to exist or appear; In the first stage
- 5. A religious painting, especially one revered by the eastern christian churches
- 6. Strict disciplinarian
- 8. The power to bring about the desired result, effectiveness

SUDOKU

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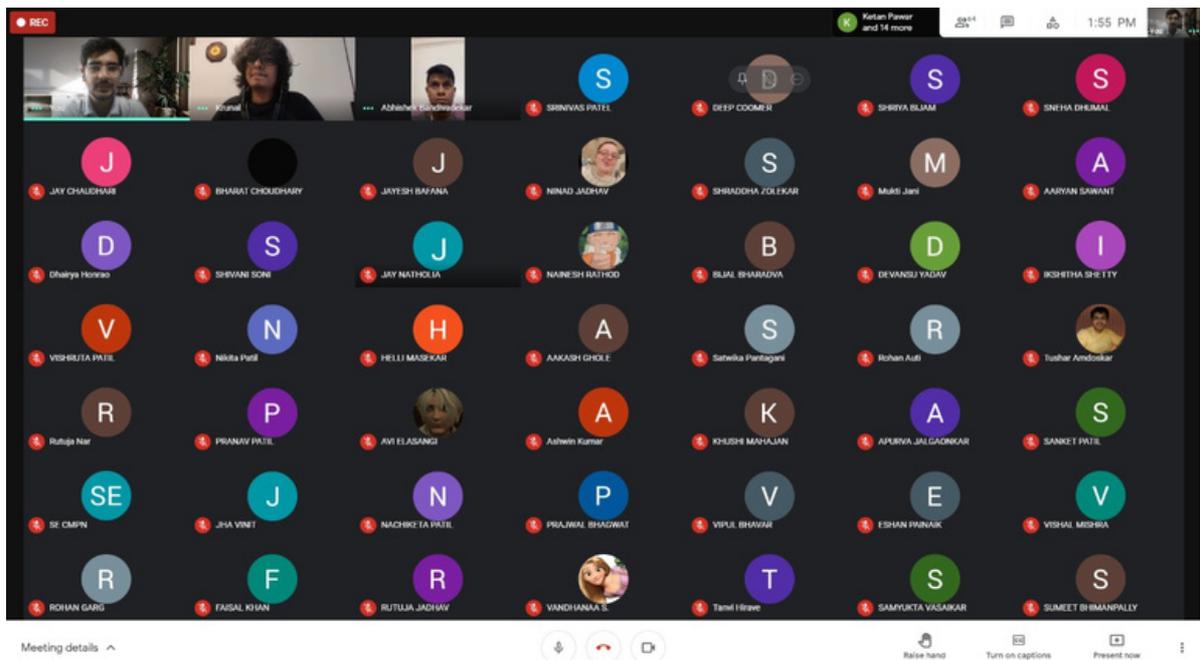
Meeting details ^



Meeting details ^



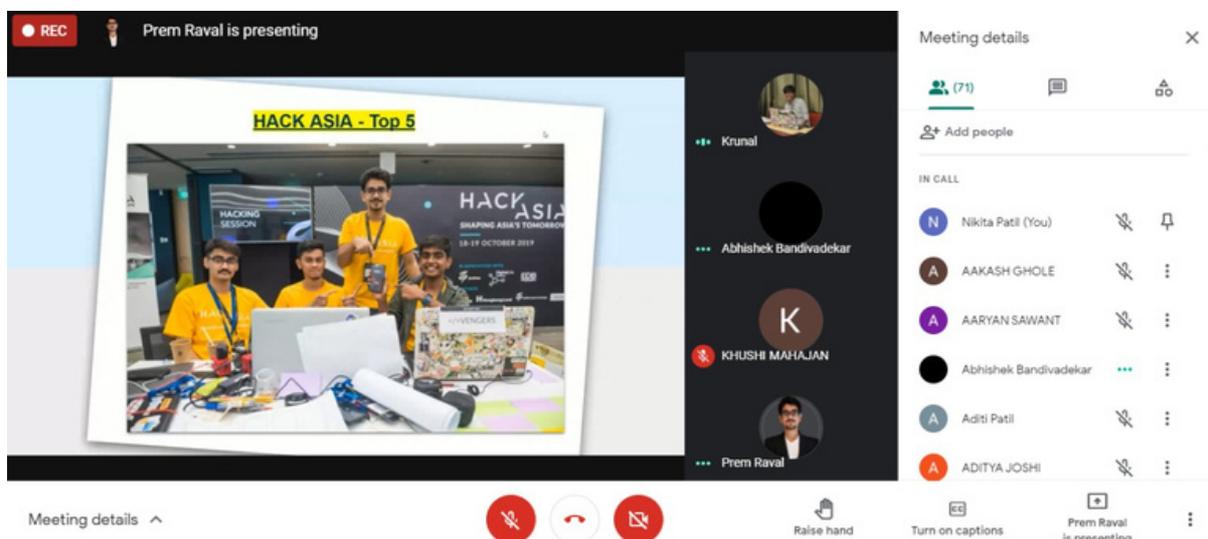
Department of Computer Engineering of ACE organised workshop on “Augmented Reality “ via Google meet. Collectively more than 110 students attended this workshop and they were very happy as many of their doubts were clarified by Speakers. Students benefitted from the session and are motivated to prepare themselves for AR f8 refresh hackathon and other technical competitions.

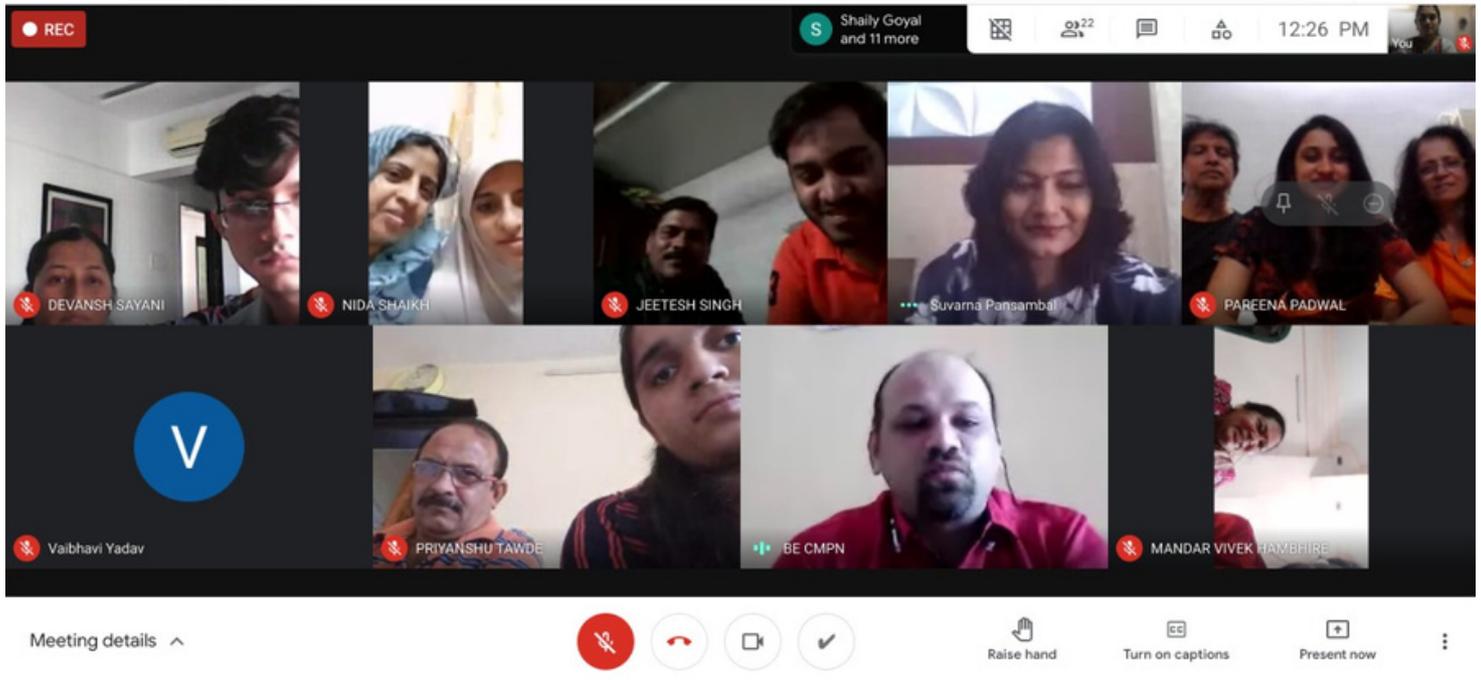


Department of Computer Engineering of ACE organised seminar on “SIH and Technical competitions “ via Google meet.

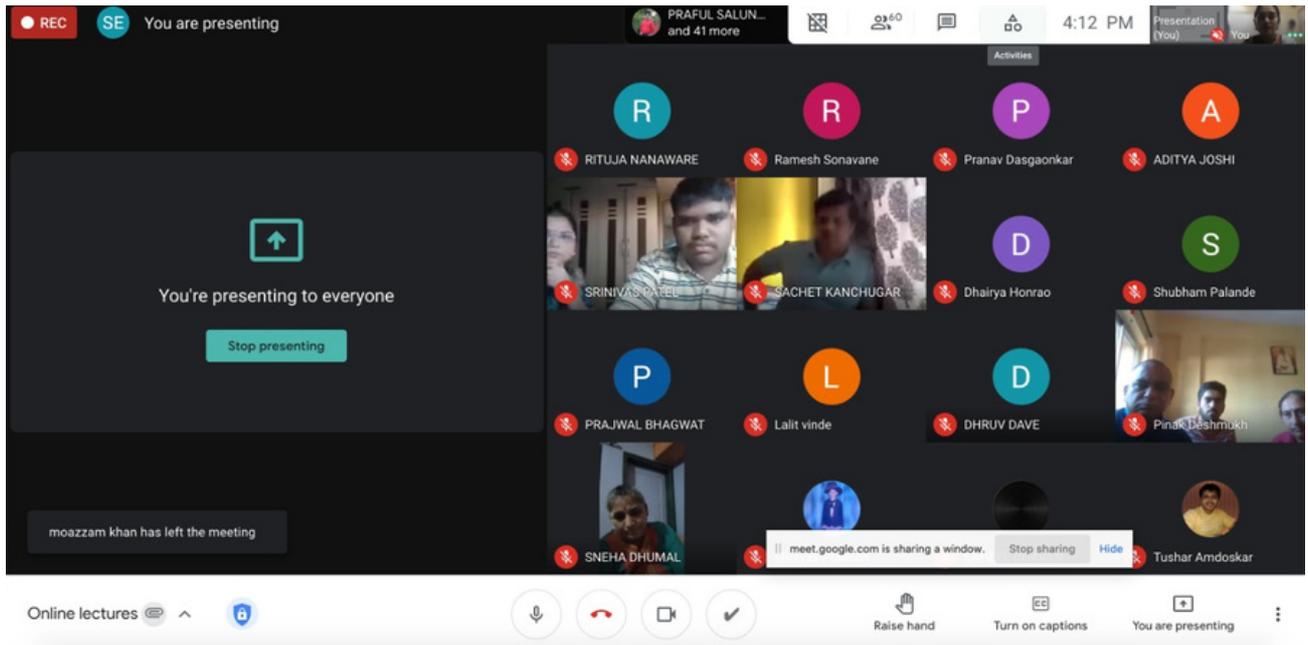
Collectively more than 70 students attended this seminar and they were very happy as many of their doubts were clarified by Speakers.

Students benefitted from the session and are motivated to prepare themselves for SIH and other technical competitions.





On the 01st of April 2021, the Department of Computer Engineering of ACE organized an online PTM to brief parents on the academic progress of their ward via Google Meet. Collectively more than 100 parents attended this meeting and they were very happy for the interaction as many of their doubts were resolved by HOD Dr. Suvarna Pansambal, class incharges and mentors.



We received very positive feedback from all parents on online classes and students' engagement in learning, they also appreciated efforts by all faculty members.

