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**NEWS**  
**LETTER**

**2020-21 2nd Issue**

# **ZEAL POLYTECHNIC**

## **DEPARTMENT OF COMPUTER ENGINEERING**

Presenting, 2nd issue of half yearly departmental NEWSLETTER that consists of events, achievements, moments and much more...

## Principal's Message



### **PROF. AYUB A. TAMBOLI**

Ph. D (Pursuing), ME(HPE), BE(Mechanical Engg.) ASHRAE, AWS, ISHRAE, MISTE, IE(I),  
Principal, Zeal Polytechnic, Pune

We provide best platforms to budding engineers to acquire technical knowledge, motor skills and soft skills which are utmost demands of the industry. Uniqueness of our institute is a caring, nurturing culture that recognizes the various aspects of each student and encourages them to bloom to their fullest with confidence.

We are also committed to very good quality of teaching-learning process with having maintained high grade discipline among the staff and students and to achieve sky-scraping point superiority in academic by maintaining a conducive atmosphere for studies, state-of art laboratories communication center and digital library. MOUs have been signed with reputed organization to impart cutting edge technologies through extensive courses.

In another view, we aim at development of our student at different levels by the proper encouragement, guidance, support and generation of in-house recourses for sports, cultural, yoga, meditation etc followed by giving them a confidence to feel free at home. These efforts have resulted in more placements and we are keen to argument it further. We are quite self-assured for the molding and nurturing of our students as a young, bright, dynamic, talented & professional technocrats and a responsible gentle citizen by raising the our actions to at high quality technical education.

## H.O.D.'s Message



### **PROF. SHAKIL TAMBOLI**

BE, ME (Computer)  
Zeal Polytechnic, Pune

Welcome to the vibrant and dynamic Department of Computer Engineering at Zeal Polytechnic, Pune!

In an era where technology evolves at an unprecedented pace, our department takes pride in nurturing the next generation of innovative minds in the realm of computing. We are committed to providing a robust academic foundation combined with practical exposure, enabling our students to thrive in the ever-changing tech landscape.

At Zeal Polytechnic, our distinguished faculty members bring a wealth of industry experience and academic expertise to the classroom. We believe in cultivating an environment that encourages curiosity, critical thinking, and creativity among our students. Our focus extends beyond traditional learning methods, emphasizing hands-on experiences through state-of-the-art laboratories and collaborative projects.

The field of Computer Engineering is at the forefront of innovation, and our curriculum is meticulously crafted to stay abreast of the latest advancements. We aim not only to impart technical knowledge but also to instill ethical values and a sense of responsibility in our students, empowering them to become socially conscious professionals.

Our department is dedicated to fostering an inclusive community where diversity is celebrated, ideas are exchanged freely, and each individual's potential is recognized and nurtured. We encourage our students to engage in extracurricular activities, research endeavors, and industry collaborations to broaden their horizons and prepare for the challenges of tomorrow.

As the Head of Department, I invite you to explore the multitude of opportunities available within our department. Whether you aspire to develop groundbreaking software, delve into cybersecurity, explore artificial intelligence, or innovate in any other computing domain, Zeal Polytechnic is the ideal platform to embark on your journey towards success.

I extend my best wishes to all our students and encourage them to dream big, strive for excellence, and make a meaningful impact in the world of Computer Engineering.

## About Zeal Polytechnic, Pune.

Zeal Polytechnic, situated in the vibrant city of Pune, stands as a beacon of excellence in technical education. Established with a vision to nurture budding talents and shape them into skilled professionals, our institution has been a cornerstone of learning and innovation since its inception.

At Zeal Polytechnic, we take pride in our commitment to academic rigor and innovation. Our comprehensive range of diploma courses in engineering and technology is designed to meet industry standards, blending theoretical knowledge with hands-on practical experiences. Our curriculum is constantly updated to keep pace with the rapidly evolving technological landscape, ensuring our students are well-prepared for the challenges of the future.

The institution has a dedicated placement cell that works tirelessly to connect students with reputable companies for internships and placements. We provide career guidance and counseling, empowering students to make informed decisions and excel in their chosen career paths.

At Zeal Polytechnic, we strive to create an environment that fosters innovation, creativity, and ethical values, preparing our students to become leaders and contributors to society.



## About Computer Department

The Computer Engineering Department at Zeal Polytechnic, Pune, is at the forefront of technological innovation, shaping future leaders in the dynamic field of computing.

Our department is dedicated to providing a comprehensive education that blends theoretical foundations with hands-on practical experience. The curriculum is thoughtfully crafted to align with industry standards and emerging technological trends, ensuring our students are well-equipped to tackle real-world challenges.

Our faculty comprises experienced professionals and educators who bring a wealth of knowledge and industry insights to the classroom. We foster a culture of continuous learning and engagement, encouraging students to interact with industry experts through seminars, workshops, and collaborative projects.

The department boasts state-of-the-art laboratories and advanced computing facilities that provide an ideal environment for experimentation and innovation. These resources enable students to delve into various domains such as software development, networking, cybersecurity, artificial intelligence, and more.

We encourage a spirit of inquiry and innovation among our students, supporting research initiatives and projects that drive technological advancements. Students have opportunities to participate in research activities, allowing them to explore new frontiers in the world of computer engineering.

The department's placement cell is committed to facilitating internships and placements for students in esteemed organizations. Additionally, we offer career guidance and counseling to empower students in making informed decisions about their professional journeys.

Beyond academics, the department encourages students to participate in extracurricular activities, technical clubs, hackathons, and seminars. This holistic approach aims to develop well-rounded individuals with a passion for innovation and a strong foundation in computer engineering.

Our alumni network comprises accomplished professionals who have made significant contributions in various industries. They remain an integral part of our community, offering guidance and opportunities to current students.

At the Computer Engineering Department of Zeal Polytechnic, we foster creativity, innovation, and excellence in the world of technology.



### Vision of the Department

Create professionally competent and socially responsible engineers to work in global environment.



### Mission of the Department

1. Implement diversified teaching learning process methodologies to meet growing requirements of industry and society. (Teaching Learning Process methodologies)
2. Demonstrate and involve students in the installation and troubleshooting of software and hardware systems using modern tools and methodologies. (Technical Competency)
3. Inculcate interest, team work and professional ethics among students. (Professional Ethics)
4. Facilitate interaction of students with society to identify innovative user friendly software and hardware solutions for the humankind.(Social Contribution)

### Program Educational Objectives (PEOs)

PEO 1: Provide socially responsible, environment friendly solutions to Computer engineering related broad-based problems adapting professional ethics.

PEO 2: Adapt state-of-the-art Computer engineering broad-based technologies to work in multidisciplinary work environments.

PEO 3: Solve broad-based problems individually and as a team member communicating effectively in the world of work.

### Program Specific Outcomes (PSOs)

PSO 1: Computer Software and Hardware Usage: Use state-of-the-art technologies for operation and application of computer software and hardware.

PSO 2: Computer Engineering Maintenance: Maintain computer engineering related software and hardware systems.

## Python Workshop by Mr. Sumit Surana

The Python workshop conducted by Mr. Sumit Surana aimed to introduce participants to the fundamentals of Python programming, catering to individuals with varying levels of coding experience. The workshop was held at QuickYes InfoTech Pvt. Ltd. on May 1, 2021, with a focus on practical applications and hands-on learning. The workshop covered essential Python concepts, including data types, control structures, functions, and modules. Participants engaged in practical exercises and coding tasks, applying learned concepts to solve problems. The workshop attracted a diverse group of participants.

**Engagement Level:** Active participation was observed throughout the sessions, with attendees asking questions and actively involving themselves in exercises. Feedback from participants highlighted the clarity of explanations provided by Mr. Sumit Surana, making complex concepts understandable. Suggestions were received regarding providing additional resources or follow-up sessions to reinforce learning.

Participants gained a foundational understanding of Python programming, enabling them to write basic programs and comprehend more advanced concepts. Some attendees successfully completed coding exercises independently, showcasing their grasp of the taught material. The Python workshop led by Mr. Sumit Surana at QuickYes InfoTech Pvt. Ltd. on May 1, 2021, was well-received, fostering a conducive learning environment and equipping participants with fundamental Python skills. Suggestions provided by attendees will be considered for future workshops to enhance the learning experience.



## The webinar on C# programming

The webinar on C# programming conducted by Mr. Varun, a.NET trainer, aimed to offer insights into fundamental concepts of C# programming language, catering to individuals interested in enhancing their programming skills. The webinar covered foundational aspects of C# programming, including variables, data types, control structures, methods, classes, and object-oriented programming (OOP) concepts. Mr. Varun provided live demonstrations and coding examples to illustrate key concepts and their practical application. The webinar attracted a substantial number of participants eager to learn about C# programming. Attendees actively engaged by asking questions and participating in discussions related to the presented material.

Participants praised Mr. Varun's depth of knowledge, clear presentation style, and ability to simplify complex programming concepts. Some attendees suggested incorporating more advanced topics or providing supplementary resources for further learning. Participants gained a foundational understanding of C# programming fundamentals, empowering them to begin coding in C# and comprehend more advanced concepts. Several attendees expressed intentions to apply the acquired knowledge in personal projects or professional endeavors.

The C# programming webinar conducted by Mr. Varun on May 27, 2021, received positive feedback from participants, offering a comprehensive introduction to C# programming basics. The interactive nature of the session and Mr. Varun's expertise contributed significantly to its success. This provides a structured overview of a typical webinar on C# programming, emphasizing the content covered, participant engagement, feedback received, and the outcomes of the session.

**Mr. VARUN**  
DOT NET TRAINER

Date: 27 May 2021 | Time: 9 AM To 11 AM

**C# PROGRAMMING**  
Online Guest Lecture

Organized By: Vishwanjali Gulumkar

HELD AT  
ZEAL EDUCATION SOCIETY  
CELEBRATING  
20 YEARS OF EDUCATIONAL EXCELLENCE  
Founded 1991 By: G.M. Sahasra

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## Webinar on IoT Project Development using Industry grade Microcontroller

The webinar conducted by Anand Kakde, Founder of Anand Techno Creations, focused on guiding participants through IoT project development utilizing industry-grade microcontrollers. The session aimed to explore the integration of microcontrollers in IoT projects and their practical applications. The webinar covered a wide range of subjects, including an introduction to IoT, selection criteria for industry-grade microcontrollers, programming languages, interfacing sensors, connectivity protocols, and hands-on project demonstrations. Mr. Kakde provided live demonstrations showcasing practical implementation and development of IoT projects using industry-grade microcontrollers. The webinar attracted a diverse audience interested in IoT development and microcontroller integration. Attendees actively engaged in discussions, asking questions, and seeking clarification on various topics related to IoT and microcontroller applications. Participants commended Mr. Kakde's expertise, clear explanations, and the practical insights shared during the session. Some attendees suggested more detailed discussions on specific applications or follow-up sessions for deeper dives into certain aspects of IoT project development.

Participants gained valuable insights into the integration of industry-grade microcontrollers in IoT projects, understanding programming methodologies and sensor

interfacing. **Application Potential:** Many attendees expressed intentions to apply the learned concepts in their own IoT projects or professional endeavors. The webinar on IoT project development using industry-grade microcontrollers, conducted by Anand Kakde, was well-received by participants seeking practical insights into microcontroller integration in IoT applications. Mr. Kakde's expertise and the interactive nature of the session contributed significantly to its success.



Zeal Education Society's  
**Zeal Polytechnic, Pune**  
COMPUTER ENGINEERING DEPARTMENT

Webinar on  
**IoT Project Development using Industry Grade Microcontroller**

- ✓ PIC18F4520 Microcontroller programming using Embedded C
- ✓ Sensor Interfacing with I2C protocol
- ✓ Interfacing of PIC Microcontroller with ESP8266
- ✓ Integration of hardware and AWS IoT / Google Firebase
- ✓ Integration of AWS IoT / Google Firebase with Android App

Date: 28<sup>th</sup> May 2021 Time: 02.00 to 03.30 PM

Google Meet Link: <https://meet.google.com/zjh-fhrw-gvx>



Dr. Anand Kakde  
Founder  
Anand Techno Creations

## Webinar Python with Django

The Python workshop conducted by Mr. Sager aimed to introduce participants to Python programming in conjunction with Django, focusing on web development using this powerful framework. Basic Python concepts such as data types, control structures, functions, and object-oriented programming (OOP). Overview of Django framework, including its structure, models, views, templates, and routing. Practical exercises involving Django to create web applications, covering CRUD operations, authentication, and possibly deployment strategies Total number of participants attending the workshop. Engagement Level: Assessment of participant involvement during the sessions, including Q&A interactions and engagement in practical exercises. Feedback from participants on Mr. Segar's teaching methodology, clarity of explanations, and the relevance of the content. Suggestions or critiques provided by attendees for enhancing future workshops or improving specific aspects of the Django session. Evaluation of participants' understanding and skills gained in Python and Django, particularly in creating web applications. Application of Knowledge: Intentions expressed by attendees to apply the acquired knowledge in personal or professional projects involving Django-based web development. The Python workshop with Django, led by Mr. Sager, successfully introduced

participants to Python programming in the context of web development using Django.

The workshop's effectiveness can be assessed through participant engagement, feedback, and the perceived impact on attendees' abilities in Django-based application development.

**Mr. SAGAR**  
PYTHON TRAINER

Date: 28 & 29 May 2021 | Time: 9 AM To 11 AM

**Python With Django**  
**Online Guest Lecture**

Organized By: Vishwanjali Gulumkar

HELD AT  
ZEAL EDUCATION SOCIETY  
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Founded: Mar. 16, 1917

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## Guest Lecture on Networking-Based Router Configuration

The online guest lecture conducted by Ashok, a Cisco Trainer, centered on Networking-Based Router Configuration. The session aimed to delve into the intricacies of router configurations within the networking domain, particularly focusing on Cisco systems. Basic principles and functionalities associated with configuring routers. Advanced configurations including routing protocols, security measures, and optimization strategies specific to Cisco routers. Live demonstrations illustrating router configuration procedures and troubleshooting techniques. Total number of participants attending the online lecture. Evaluation of participant engagement, questions raised, and involvement during the lecture.

Feedback received from participants regarding the lecture's content relevance, clarity of explanations, and Ashok's expertise. Participants' suggestions or feedback to enhance future lectures or topics for further exploration. Assessment of participants' understanding of networking-based router configurations post-lecture. Participants' intent or plans to implement the acquired knowledge in practical networking scenarios.

The online guest lecture on Networking-Based Router Configuration by Ashok, the Cisco Trainer, was an informative session providing valuable insights into router configurations, especially within the Cisco networking environment. The success of the lecture could be

gauged by participant engagement, feedback received, and the perceived impact on participants' comprehension of router configurations within networking.

**Mr. ASHOK**  
CISCO TRAINER

Date: 31 May 2021 | Time: 9 AM To 11 AM

**Networking Based Router Configuration**  
**Online Guest Lecture**

Organized By: Vishwanjali Gulumkar

HELD AT  
ZEAL EDUCATION SOCIETY  
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## Webinar on Career opportunities in IT Industry

Sumit Surana, the Co-founder and CEO of Social Cruise, conducted a guest lecture tailored for 3rd-year computer students to provide insights into the potential career pathways available within the IT industry. Examination of the current state of the IT industry, emphasizing market trends, emerging technologies, and the evolving job landscape. In-depth discussion on various career trajectories within IT, including software development, cybersecurity, data science, cloud computing, and other specialized fields.

Guidance on essential skills, certifications, and practical experiences necessary for thriving in the IT sector. Alignment with Highlighting how the lecture content corresponds with the students' current academic standing and future career prospects.

Emphasizing the importance of the insights shared by Sumit Surana in relation to the students' ongoing educational journey and future professional endeavors. Total number of 3rd-year computer students in attendance. Evaluation of participant engagement, questions raised, and their interaction during the lecture. Feedback collected from students regarding the lecture's relevance, Sumit Surana's expertise, and the practical advice provided. Students' recommendations or requests for additional information or guidance in specific areas related to IT career opportunities. Enriched Perspective: Assessment of how the lecture influenced students' understanding and perceptions regarding potential career paths within the IT industry. Impact on Career Aspirations: Insights into students' inclinations and motivations to pursue IT-related career

opportunities based on the lecture. Sumit Surana's guest lecture tailored for 3rd-year computer students on career opportunities in the IT industry served as a comprehensive guide, aligning with their educational stage and future aspirations. The success of the lecture could be measured based on participant engagement, feedback received, and the perceived impact on students' perspectives regarding IT career prospects.

Zeal Education Society's  
**Zeal Polytechnic, Pune**

**COMPUTER ENGINEERING DEPARTMENT**

Webinar on  
**Career Opportunities in IT Industry without coding**

- ✓ Be in IT without Coding
- ✓ Find the real you, before it's too late
- ✓ Work from home internship opportunities
- ✓ High demanding skills during & after Pandemic
- ✓ Learn & earn without compromising Academics

Date: 3<sup>rd</sup> June 2021

Time: 02.00 to 03.30 PM

Sumit Surana  
Co-Founder & CEO  
Social Cruise

Recommended for Third Year Computer Engineering Students

## Migration from Legacy BIOS to UEFI Firmware

Manoj Jadhav, a BIOS Engineer at Intel Technologies Pvt Ltd, conducted a guest lecture focusing on the critical transition from Legacy BIOS to UEFI Firmware within modern computing systems. Fundamentals of Legacy BIOS and UEFI Firmware: Detailed explanation highlighting technical differences, functionalities, and advantages between the two firmware types. Comprehensive insights into methodologies, tools, and best practices involved in successful migration processes. Discussion on common technical challenges encountered during migration and effective solutions to overcome them. Emphasizing the significance of understanding and executing this migration process in the context of modern computing technology. Discussing the potential improvements in system performance, security enhancements, and other benefits resulting from UEFI Firmware. Total number of attendees present at the guest lecture.

Evaluation of participant engagement, questions posed, and their active involvement during the lecture. Feedback collected from participants regarding the lecture's relevance, clarity of explanations, and Manoj Jadhav's expertise in the field. Participants' requests for additional information, practical demonstrations, or resources related to the migration process. Assessment of how the lecture contributed to participants' comprehension of the migration process from Legacy BIOS to UEFI Firmware. Insights into participants' perspectives on applying this knowledge within their professional roles or future endeavors.

Manoj Jadhav's guest lecture on "Migration from Legacy BIOS to UEFI Firmware" provided valuable insights into this critical transition within computing systems. The success of the lecture could be evaluated based on participant engagement, feedback received, and the perceived impact on attendees' understanding of the migration process.



Zeal Education Society's  
**Zeal Polytechnic, Pune**  
COMPUTER ENGINEERING DEPARTMENT

Webinar on  
**MIGRATION FROM LEGACY BIOS TO UEFI FIRMWARE**

Review of System/ Board Architecture  
Original Equipment Manufacturing & Original Design Manufacturing  
In-line Memory Module (DIMM) Channel  
BIOS Flow  
BIOS modules used in BIOS  
Opportunities of Intel for students



Mr. Manoj Jadhav  
BIOS Engineer  
Intel Technology (I) Pvt. Ltd.

Date: 5<sup>th</sup> June 2021    Time: 02.00 to 03.30 PM

Recommended for Second & Third Year Computer Engineering Students

## Industrial Visit

Priti Edgaonkar, an experienced Python Developer, organized and conducted a virtual industrial visit aimed at providing insights into Python programming within an industrial context. Overview of Python's relevance and applications within industries. Practical demonstrations showcasing how Python is used in industrial settings, such as automation, data analysis, or web development. Sharing industry best practices, tools, and methodologies used in Python-based projects. Discussion on how Python aligns with current industry needs and trends.

Emphasizing the practical applications of Python programming within different industrial domains. Total number of participants attending the virtual industrial visit. Assessment of participant engagement, interaction, and questions raised during the visit. Feedback gathered from participants regarding the visit's relevance, the clarity of Priti Edgaonkar's explanations, and the insights shared.

Participants' requests for more detailed demonstrations, additional topics, or resources related to Python in industrial contexts. Assessment of how the virtual industrial visit contributed to participants' understanding of Python's practical implementation in industries. Insights into how participants intend to apply the gained knowledge and insights in their academic or professional endeavors. Priti Edgaonkar's virtual industrial

visit focusing on Python programming provided valuable insights into the industrial applications of Python. The success of the visit could be evaluated based on participant engagement, feedback received, and the perceived impact on participants' perspectives regarding Python's role in industrial settings.

Systems & Networks Technologies

# VIRTUAL INDUSTRIAL VISIT

Date: 12 June 2021 | Time: 9 AM to 10 AM  
Venue: Online

Topic : **Python Programming**

Speaker:

Mrs. Priti Edgaonkar  
Python Developer

## VIRTUAL Industrial Visit Career Guidance and Virtualization Technology

The virtual industrial visit held on June 9, 2021, centered around two main themes: Career Guidance in the IT Industry and the Exploration of Virtualization Technology. The session aimed to provide insights into career paths in the IT sector and the practical aspects of virtualization technology. Discussion on various career options within the IT industry, including software development, cybersecurity, cloud computing, data analytics, and network administration. Insights into the essential skills, certifications, and educational qualifications required for different roles in the IT sector. Industry Trends and Opportunities: Highlighting current industry trends and potential opportunities for aspiring IT professionals. Explanation of virtualization concepts, types of virtualization (server, network, storage), and their importance in modern IT infrastructure. Live demonstrations showcasing the implementation and benefits of virtualization technology in simulated environments. Real-world use cases highlighting how virtualization enhances scalability, efficiency, and cost-effectiveness in IT environments. Total number of participants attending the virtual industrial visit. Engagement Level: Assessment of participant engagement, interaction, questions raised, and their involvement during the sessions.

Positive Responses: Feedback collected from participants regarding the relevance of the sessions, the expertise of the speakers, and the practical insights provided. Participants' requests for additional resources or in-depth explorations on specific career paths or virtualization aspects.

Evaluation of how the virtual industrial visit contributed to participants' understanding of career opportunities in the IT industry and the practical applications of virtualization technology. Insights into participants' future career aspirations and intentions to apply the gained knowledge in their academic or professional pursuits. The virtual industrial visit on career guidance and virtualization technology delivered valuable insights into potential career paths within the IT industry and the significance of virtualization in modern IT infrastructures. The success of the visit could be measured based on participant engagement, feedback received, and the perceived impact on participants' perspectives and aspirations.

## Project Based Learning Activity

### Winners of PBL-1- First Year Computer Engineering

GAIKWAD KAJAL, DATTA GUNJAL, NIKITA DASHRATH ,BAHADURE NIKITA ,UTTAMRAWKHANDAY,  
PRAJAKTA MOHAN SATHE, SAYALI ANANDRAO,KOR ,SUVARNA LAHU,

### Winners of PBL-1- SecondYear Computer Engineering

TANMAY KUMBHAR, BHALEKAR ATHARVA ,SANDEEP NUPOOR KALE,  
GAIKWAD PRIYANKA SHANKAR

### Winners of PBL-1- Third Year Computer Engineering

BHAGWAT SUDHAMANI, SANTOSH SAMBARWAL ,SHRUTI ASHOK

### Winners of PBL-2- First Year Computer Engineering

GAIKWAD PRADNYA SANTOSH, GOPAL NITESH NAGESH,JADHAV AISHWARYA SOMANATH ,BHOI  
ROHAN KUMAR. BANSODE BHAGYASHRI CHANDRAKANT

### Winners of PBL-2- SecondYear Computer Engineering

TANDALE SIDDHESH CHANDRAKANT, ATHARVA AMIT DHORJEPRAFUL, MANIK KAMBLE ,ZORE  
CHAITANYA DATTARAM

### Winners of PBL-2- Third Year Computer Engineering

KATE AKANKSHA ,AMOL RAUT ,VAISHNAVI SANTOSH SAKPAL ,PRANALI PRAMOD

### Winners of PBL-3- First Year Computer Engineering

BATHE SOHAM ASHOK ,MALUSARE OM ANANTA ,DHOTRE VAISHNAVI, SACHIN LENDAVE  
,AMRUT TUKARAM ,PILANE SANKET CHANDRAKANT ,JASU JAGRUTI KRISHNAKUMAR

### Winner of PBL-3- Second Year Computer Engineering

SHINDE MAHESH, RAMESH BHUJANG ,RUSHIKESH RAJENDRA ,KOULAGE SACHIN DIGAMBAR ,  
SUMAN SAMANTA

### Winners of PBL-3- Third Year Computer Engineering

CHANDAN CHOUDHARY, BRIJESH GADEWAR PARAM TOTE



## Project Competition Winners

The Online State Level Project Competition 2021, hosted at Sou Venutai Polytechnic, showcased innovative projects from talented individuals across the state. The competition aimed to recognize and celebrate exceptional projects in various domains. Sanjana Sawant and Mansi Singh secured the prestigious first rank in the competition due to their innovative techniques, methodologies, or solutions implemented in their project.

Highlight the project's outstanding execution and presentation during the competition. **Relevance and Impact:** Discuss how their project addressed a significant issue or contributed to the field it belongs to. Applaud their dedication, hard work, and ingenuity in achieving the first rank. **Impact on the Institution:** Discuss how their success positively impacts the reputation and recognition of Sou Venutai Polytechnic. Sanjana Sawant and Mansi Singh's achievement sets a benchmark for future participants, encouraging innovation and excellence in upcoming competitions. Their success also reflects the institution's commitment to nurturing talent and fostering a culture of innovation.

Sinhgad Technical Education Society's  
**Sou. Venutai Chavan Polytechnic**  
Department of Computer Technology

**Online State Level Project Competition- 2021 Winners**

*Congratulations*

Date: 28<sup>th</sup> May 2021  
Total Groups: 62

**First Rank**

1. Sanjana Sawant
2. Manasi Singh

**Zeal Polytechnic, Pune**

Overwhelming response from various colleges of Maharashtra

**Second Rank**

1. Krishna Pandey
2. Yash Gedam
3. Sejal Choudhary
4. Smarika Irkhede

**NIT Polytechnic, Nagpur**

1. Bhagyashri Bhosale
2. Gayatri Raut
3. Harshada Khadilakar
4. Mansi Naphade

**Pimpri Chinchwad Polytechnic, Nigdi - Pune**

**Third Rank**

1. Smit Joshi
2. Dipanshu Prasad

**Sou. Venutai Chavan Polytechnic, Pune**

1. Radhika Joshi
2. Anam Bagwan

**Government Polytechnic, Pune**

Regards → Mrs. A. V. Kurkute  
HOD, Comp Dept.

Mrs. S. K. Biyani  
Vice-Principal

Dr. (Mrs.) M.S. Jadhav  
Principal

## Tree Plantation and Slogan Competition

The Tree Plantation and Slogan Competition held at Zeal Institute on June 5, 2021, aimed to promote environmental awareness and engage participants in activities fostering a sense of environmental responsibility. Mention the number of participants involved in the tree plantation. Specify the types of trees planted and their significance in the local ecosystem. Describe the area chosen for plantation and its significance. Detail the process of tree plantation, including preparation, planting, and post-plantation care. Indicate the number of participants in the slogan competition. Highlight the theme or topics related to environmental conservation. Discuss the creativity and relevance of the slogans presented. Explain the judging criteria and the panel of judges.

Discuss the potential positive impact of the tree plantation on the local environment. Highlight how the event contributed to raising awareness about environmental conservation among participants and attendees. Mention the winners of the slogan competition and any special recognition or prizes awarded.

Specify the number of attendees, including participants and audience members.

Describe any interactive sessions or educational activities conducted alongside the main events. Share feedback received from participants and attendees regarding the event's organization and impact. The Tree Plantation and Slogan Competition organized by Zeal Institute on June 5, 2021, successfully advocated for environmental conservation. It facilitated active participation, encouraged eco-friendly practices, and promoted creative expressions towards sustainability.



## Recent technologies in computer science

### Blockchain

Blockchain is the foundational technology that powers electronic currencies such as Cryptocurrencies. In simple terms, a Blockchain is an electronic ledger that can be shared among different users. This helps in creating a record of transactions that cannot be altered. Each of these records is time-stamped and linked to the previous one.

So every time a new transaction is added to the ledger, it is stored as another block in the chain of transactions – hence the name. Blockchain is updated after the different parties contributing to the ledger agree. After new data is fed into a block, it cannot be erased. This makes technology verifiable and secure. This validation of transactions helps companies reduce their costs as no third party has to be paid. The system is very secure and there is no need for paying for centralized entities, as the technology is decentralized. Transactions are easier to track using Blockchain.



## Virtual Reality

VR is the technology by which you can immerse yourself in an environment that seems astonishingly realistic. It is the use of computer technology for creating a simulated environment. It is very popularly used for playing computer games. Unlike traditional games where you experience the gaming environment by viewing it on the screen, you are directly placed in the environment!

Senses such as touch, hearing, smell, and vision are simulated in these environments. Using VR gear such as headsets, you can walk around and play the game in that 3D world. Augmented Reality (AR) is the technology used for improving this virtual environment. The major players in this field are Facebook's Oculus Rift, Sony's PlayStation VR (PSVR), and the HTC Vive. The VR technology is not only used for entertainment, but it is also used by the U.S. Navy and Coast Guard for training staff. They use a VR game called VirtualShip. AR and VR are used by doctors while performing surgery. Visitors in an amusement park or a museum can also use the technology to enhance their experience.



## Student Achievement

Sr. No.	Name of Students	Percentage	Year
01.	NIKAM VIVEK PRASHANT	86.00%	FIRST YEAR
02.	GARAD PRUTHVIRAJ UMESH	86.20%	
03.	DHOTRE VAISHNAVI SACHIN	88.93%	

Sr. No.	Name of Students	Percentage	Year
01.	NUPOOR KALE	94.13%	SECOND YEAR
02.	ATHARVA AMIT DHORJE	93.73%	
03.	DEO SANJANA DIPAK	93.2%	

Sr. No.	Name of Students	Percentage	Year
01.	KHOPADE VAIBHAV SATISH	93.67%	THIRD YEAR
02.	SINGH MANASI DAYASHANKAR	92.06%	
03.	BHOSLE KRISHNA KASHINATH	88.11%	

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