



**SYMBIOSIS INSTITUTE OF TECHNOLOGY (SIT)**

Constituent of Symbiosis International (Deemed University), Pune

(Established under Section 3 of the UGC Act of 1956 vide notification number F-9-12/2001-U-3 of the Government of India)  
Re-Accredited by NAAC with 'A' Grade

# TECHNOWIZ

**THE BIENNIAL NEWSLETTER FROM THE DEPARTMENT OF CSE**

**EDITION: JAN - JUL 2021**

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## WHAT IS TECHNOWIZ?

We are pleased to publish the fourth issue of the Newsletter of CSE/IT Department, 'TECHNOWIZ', as a sincere endeavour to promote and document the department's regular academic and extracurricular achievements. We at TechnoWiz explore the Department Students' and Staff Community's hidden skills, dedication, engagement, and achievements in Academic and Co-Curricular activities. The Newsletter is a new academic venture designed to encourage students and staff members to participate in academically friendly and institutionally recognized activities.





# VISION AND MISSION

## VISION OF THE DEPARTMENT

To evolve as a centre of excellence in Computer Science and Engineering to produce skilled and proficient global professionals to build the society.

## MISSION OF THE DEPARTMENT

- To provide the conducive environment for establishing students in the global platform of research and innovation.
- To educate students on cutting edge technologies with problem solving capabilities, leadership and teamwork skills.
- To inculcate the professional values with lifelong learning through curricular and co-curricular activities and create globally-aware disciplined citizens.
- To commence various initiatives for motivating students to work for the betterment of society.

## PROGRAM EDUCATIONAL OBJECTIVES

PEO1: Apply their skills with research orientation and establish themselves globally.

PEO2: Apply problem solving and emerging technology skills for designing solutions .

PEO3: Apply technical and leadership skills to be a successful entrepreneur.



# MESSAGE FROM HOD

Greetings from the Department of Computer Science and Engineering (CSE) at Symbiosis Institute of Technology! One more eventful semester has passed with students and faculty of CSE outshining in various areas. This semester has been important since BTech AI/ML was conceptualized and executed. This course is now live and is being offered to the 2021 July batch of students.

The Department of CSE at SIT is intensively research-oriented and student-centred.

This is reflected in the research publications done by a collaboration of the students and the faculty. Our mission and vision statements express some of our department's guiding concepts and objectives. Keeping students in sync with industry applications of computer science, we organized multiple guest lectures and workshops in coordination with our industry partners. Students have shown their enthusiasm by participating in and organizing extracurricular activities such as technical events, hackathons, poster presentations, conferences, student clubs, and other activities that promote the development of a variety of both disciplinespecific and lifelong transferable skills such as enterprise, collaboration, and leadership. We are quite proud of our graduates and their achievements; they are highly competent IT professionals who are pursuing successful professions in a variety of settings in a competitive and global market



Dr. Ambika Pawar  
Head and Associate Professor,  
Computer Science Engineering,  
Symbiosis Institute of Technology

# STUDENT'S ACHIEVEMENTS



## First Year IT student offered a Fellowship at 'Run The World'

Mr. Sidhant Mathur, First-year IT branch student has been selected for a Product Growth Fellowship at 'Run The World', is the only student from an Indian College selected for this cohort of the fellowship. Run The World is a multibillion-dollar high-tech corporation located in San Francisco's Silicon Valley. This Fellowship is a highly exclusive worldwide programme in which he will collaborate on high-impact international initiatives with a mentor from a high-growth tech firm. Sidhant will collaborate with four other fellows from ivy league institutions across the world, as well as the organization's senior management, for a really unique global learning and leadership experience



## Techela 6.0 @ SIT

The CS & IT department's mega technical event Techela is the yearly gathering of socially inept techies. This year Techela 2021 went virtual with amazing gaming and technical events that resonated with its theme - **FAR FROM REALITY**. From top solo and multiplayer games to enriching seminars, quizzes, and Hackathons, we had it all this year with a wide range of pre-techfest activities that began on the 16th of April and went through the 22nd of April 2021, and Techfest on the 23rd and 24th of April. The pre-techfest consisted of both technical and non-technical events. The gaming events included: The Knights Open Chess Challenge, Scribble, Bollywood/Hollywood quiz, Open Mic, CS GO, Valorant, Clash Royale, Call of Duty and Among Us. The technical events included: Bug Detection, CodingDecoding, Hand and Brain Coding.

# STUDENT'S ACHIEVEMENTS



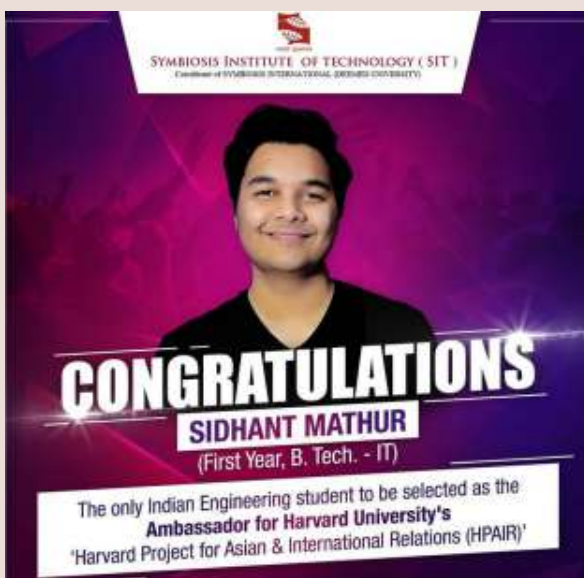
## Final year CSE team wins the First runners-up prize at Hackathon

SIT congratulates our Final year CSE team Tier-4 Mr. Sanket Shevkar, Mr. Nishant Bhat, Mr. Pranav Pathare, Mr. Gati Taraneekar and Mr. Aaryan Srivastava on securing the First runners up position in the Hackathon conducted by Bajaj Finserv wherein A total of 2000+ teams had registered from 100+ colleges.



## SIT M.Tech students get shortlisted to Intern at KONE

SIT congratulates its M.Tech students - Ms.Hemani, Mr.Davank, Mr.Arindam, and Mr.Anand for getting shortlisted as Interns at a century-old MNC KONE, headquartered in Finland. To further strengthen its foothold in contemporary digital services and Enterprise IT, KONE has begun a new tech and innovation function in Pune to fuel and develop the operations of this venture.



## First Year IT Student, Ambassador for Harvard University's HPAIR

Sidhant Mathur, a First Year IT student, has been selected as the youngest Indian Ambassador for Harvard University's Harvard Project for Asian and International Relations (HPAIR). He is the sole Indian Engineering student chosen for this prestigious role. As an Ambassador, he has been invited to attend the HPAIR Harvard College Conference & HPAIR Asia Conference in Taipei, Taiwan in August 2021. The conference tickets and expenses are fully sponsored by Harvard and HPAIR. Additionally, he has received a Letter of Recommendation for Harvard University through his association with HPAIR.



# STUDENT'S ACHIEVEMENTS



## Second Year CS Student wins Gold, Silver and Bronze at Bihar State Shooting Championship

Mr. Yash Verma, SY Computer Science Student at SIT wins 6 Gold, 1 Silver and 3 Bronze Medals in Bihar State Shooting championship held at Siwan, Bihar. He has bagged these medals in 50m 3 position, 50 m prone, & 10m events during the shooting championship



## First year IT student licensed to be an Ethical Hacker

Mr. Atishay Jain, FY IT successfully completed a course in Ethical Hacking and received a certificate and license to be an Ethical Hacker for 5 years.



## First Year IT student gets selected for 9th Masters/Seniors Pencak Silat Championship and wins Gold at District Level

Mr. Sahil Gupta, FY (IT) got selected for 9th Masters/Senior Pencak Silat championship 2020-21 at polo ground indoor stadium Srinagar and also got an opportunity to participate in National Instructor Camp. He won District Level Pencak Silat championship 20-21 under the banner of Pencak Silat Association of Jammu and Kashmir recognized by J&k Sports council and J&K Olympic Association under Senior (65-70kg) weight category and won a Gold medal. He is now selected for State level championship.

# STUDENT'S ACHIEVEMENTS



## First Year IT student wins LIT Policython 2021

Mr. Sidhant Mathur, FY IT won the LIT Policython 2021 (48 Hour Tech Policy Hackathon) organised by Project StateCraft and Students for Liberty. He produced a Technology Policy Research Paper entitled “Tackling the Repercussions of Artificial Intelligence in the Business Arena - Enlisting regulatory standards for the Industry 4.0” in 48 hours of this competition with his teammate. They researched extensively and brainstormed creative, sustainable & feasible policy solutions that governments can implement to prevent businesses from using Artificial Intelligence and related Technology in unethical ways and manipulating consumers and the general public.

# FACULTY'S ACHIEVEMENTS

Symbiosis International University offers funds to encourage faculty to pursue research in his/her area of expertise. This year very few researchers were given grants out of which 2 grants were received by CSE department faculty.

Major research proposal : “Inferring quality and fault localization of 3D printer products by using Digital twin.”

Principal Investigator(PI): Dr. Satish Kumar Co-PI: Dr. Shruti Patil Funds Received: 10L

Minor Research Proposal : “Artificial Intelligence-based fault detection in bearings using vibration and sound sensor”

PI: Prof. Pooja Kamat

Co-PI: Dr. Satish Kumar

Funds Received: 1.5L



Dr. Sharnil Pandya, Associate professor, Department of CS/IT awarded the Young Scientist Award in the International Scientist Awards on Engineering, Science and Medicine, held on 06-07th March 2021, Goa. The event was organized by VDGGOOD Professional Association



Ms. Deptii Chaudhari, Ph.D. Scholar from the 2019 batch got selected for the ACM India Anveshan Setu Ph.D. Fellowship 2021. Only 40 Ph.D. scholars from all over India got selected for this fellowship along with her.



# GUEST LECTURES

## **Mr. Roshan Mitra**

Mr. Roshan Mitra (3rd Year BTech. IT) conducted a session on “Significance of Competitive Programming for Engineers” on 16th January 2021. Roshan has qualified for Facebook’s HackerCup Round 1 and had Rank 4199 in CodeVita. He is a 3 Star coder on CodeChef and the Programming Lead at CodeChef SIT Pune Chapter. He was also joined by Mr. Parth Sharma (3rd Year IT & CS-IT Prota Head) for this fun and learning session.

## **Mr. Mahesh Pavaskar**

Mr. Mahesh Pavaskar, Technical Product Lead at Verizon, Diegem, Brussels, Belgium conducted a session on “Security and Privacy” as a part of the Specialization Awareness Program organized by the Dept. of CS/IT on 13th Feb 2021. He has 12 years of industry experience with specialization in Network Security and Cyber Security along with 24 certification courses like IBM QRadar security analyst/admin/architect, Securonix SNYPR 100/200/300-admin/300-DI, CCNA etc. The session focused on making our students aware of the various opportunities/ job roles in the security domain, how to identify fake emails, how to use basic attack framework, understanding privilege escalation with the demonstration of IDOR

## **Dr. Meghshyam G. Prasad**

Dr. Meghshyam G. Prasad, Principal AI scientist at Target Corporation (I) Pvt. Ltd. Bangalore addressed the Second year students on “Introduction to Data Science” as a part of the Specialization Awareness Program organized by the Dept. of CS/IT on 13th Feb 2021. Dr. Prasad is having 10 years of experience in the software industry with a specialization in Data Science, Machine Learning and Computer Vision.



# GUEST LECTURES

## **Dr. Shruti Patil**

Dr. Shruti Patil, Associate Professor of Computer Engineering conducted an expert session on “Career Mantras for Diploma Students” to guide the final year diploma students on various career options for a successful career ahead. The Webinar focused on Major Career options post completion of the diploma, how to choose Engineering Branch & Graduation Institution, Feasible careers in the current scenario and so on. This insightful session was organized on the 10th of May 2021.

## **Mr. Nikhil Malhotra**

Mr. Nikhil Malhotra, Global Head of tech innovation at TechMahindra and heads Maker's lab, the thin-q-Bator division at TechMahindra delivered a Tech talk on His expertise and passion which include Artificial Intelligence with a focus on Natural Language Processing. Artificial neural networks that are analogous to the networks of neurons that comprise the brain have given computers the ability to distinguish an image of a cat from one of coconut, to spot pedestrians with enough accuracy to direct a self-driving car and to recognize and respond to the spoken word. The Session was conducted on the 21st of June 2021.

## **Mr. Dipanjan Sarkar**

Mr. Dipanjan Sarkar, Data Science Lead conducted a workshop for all the branches of SIT on the topic ‘NLP and its engineering applications’. The AIML workshop series was arranged and initiated by Dr. Shilpa, Dr. Swati A and Dr. Seema Wazarkar on 03- 04th May 2021.

## **Mr. Sunny Desai**

Mr. Sunny Desai, Sr. BI Business Analyst. He is a representative of EBTS who conducted a workshop on the topic “Basic Statistics for AIML and Data Science”. It was a very educational 2-day workshop arranged by Dr. Seema Wazarkar and Dr. Ambika Pawar.



# PUBLICATIONS

Ghayvat, H., Pandya, S., Bhattacharya, P., Zuhair, M. et al., CP-BDHCA: Blockchainbased Confidentiality-Privacy preserving Big Data scheme for healthcare clouds and applications, IEEE Transactions on Information Technology in Biomedicine(J-BHI), imf: 5.7, doi: 10.1109/JBHI.2021.3097237, Q1

[READ THIS PUBLICATION](#)

Pandya, S. and Ghayvat, H., Ambient acoustic event assistive framework for identification, detection, and recognition of unknown acoustic events of a residence. Advanced Engineering Informatics, 47, p.1012, 2021, Elsevier, imf: 5.6, Q1. [as the corresponding and First author]

[READ THIS PUBLICATION](#)

Ghayvat, H., Awais, M., Gope, P., Pandya, S. and Majumdar, S., 2021. ReCognizing SUspect and PredictiNg ThE SpRead of Contagion Based on Mobile Phone LoCation DaTa (COUNTERACT): A System of identifying COVID-19 infectious and hazardous sites, detecting disease outbreaks based on the internet of things, edge computing, and artificial intelligence. Sustainable Cities and Society, p.102798, Elsevier, imf: 7.6, Q1.

[READ THIS PUBLICATION](#)

Mishra, N. and Pandya, S., Internet of Things Applications, Security Challenges, Attacks, Intrusion Detection, and Future Visions: A Systematic Review, IEEE Access, April 2021, imf: 3.4, Q1. [as the corresponding author]

[READ THIS PUBLICATION](#)



# NEWS AND EVENTS



## RESKILLING BY ADDING KNOWLEDGE AND VALUE

SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY) IS NOW OFFERING SYNCHRONOUS ONLINE COURSES VIA



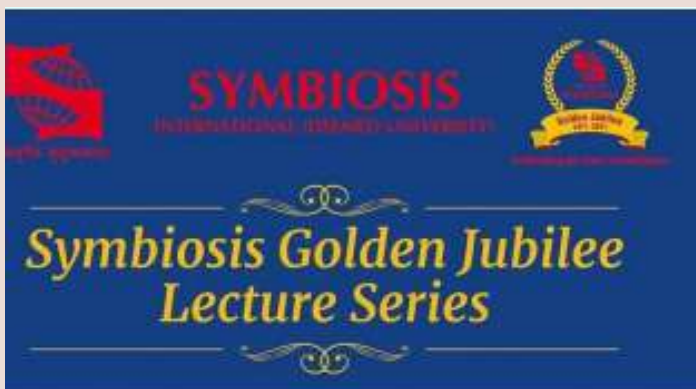
SIUX is the repository of all of SI digital courses as well as learning resources. As on date 41 courses are offered on the platform by the constituents of Symbiosis International (Deemed University) under its very own Online platform - **SIUX**

The courses in SIUX pertain largely to the domains of leadership, change management, analytics, entrepreneurship, design thinking, finance, media and journalism and others.

Each course has a duration of **15 hours** spread across **8 sessions in 4 weeks**

## SIT, Reskilling and adding knowledge by launching Online courses globally

Bringing Excellence and Innovation Together, SIT launched a series of Synchronous online courses via SIUX. SIUX is the repository of all of SIU's digital courses as well as learning resources offering 41 online certification programs under its very own platform by the constituents of Symbiosis International (Deemed University). The courses in SIUX pertain largely to the domains of leadership, change management, analytics, entrepreneurship, design thinking, finance, media and journalism, and others. Each course has a duration of 15 hours spread across 8 sessions in 4 weeks.



## Symbiosis Golden Jubilee Lecture Series

Symbiosis was honored to host the distinguished actor Aamir Khan at its Golden Jubilee Lecture Series held on 23rd January 2021.



# NEWS AND EVENTS



## SSIT Pune collaborates with UiPath

Symbiosis Institute of Technology proudly announces its educational partnership with UiPath for the growth of the 'Robotics and Automation' field. UiPath is a Robotic Process Automation tool that is used for Windows desktop automation with the help of drag and drop functionality and eliminates human intervention. According to Deloitte's 2019 Technology Fast 500, UiPath Ranks No. 1 in North America, used by multi-national companies such as AIRBUS, NASA, AUTODESK, DHL, HP, PARADISE, etc. Being the market leader, it is trying to make sure it caters to all types of audiences either it be a fresher, or an experienced professional working in top enterprises by providing various editions.



## ProTech 2021

Symbiosis Institute of Technology was proud to present its glorious technical project event "Protech" 2021, a National Level Competition & Exhibition open for all disciplines of Diploma Students. The event organized on 7th & 8th May showcased talent in form of a Project, Paper, Poster or simply an Idea! and the event had a total prize worth INR 1,00,000/-. More than 180+ teams with 600+ participants had participated in the

event across the various disciplines of Civil Engg, Mechanical Engg, Electronics and Telecommunication Engg., Computer Science Engg. and Information Technology from all parts of the country. Around 100+ evaluators from various diploma institutes across India were invited to evaluate the projects along with the senior faculties at SIT. .



# NEWS AND EVENTS



## PTech-Cellent Milestones for SIT!

Symbiosis Institute of Technology ranked 10th among India's Top 100 Private Engineering Colleges by OUTLOOK rankings 2021. Symbiosis Institute of Technology ranked 1st among the top emerging private colleges in the country, 2nd in the West zone, and 11th among all private engineering institutes at all India level by India Today 2021 Survey.

**HATCH A PITCH**  
We are honoured to have you on the JUDGING PANEL for the FINAL ROUND

**DR. DIRECTOR MARKET INTELLIGENCE & STRATEGY, MITSUBISHI POWER**  
**STARTUP CONSULTANT & ANGEL INVESTOR, INDIA NETWORK**  
**PHILANTHROPIST, IMPACT INVESTOR, KARMARONHEIT**

**MS. DRUMMI BHATT**  
JUDGE  
29 APRIL | 4 PM

**HATCH A PITCH**  
We are honoured to have you on the JUDGING PANEL for the FINAL ROUND

**ADVISOR, MENTORSHIP & LEAD FINANCE**  
**EXECUTIVE VICE PRESIDENT, WISERMAN ENTREPRENEURS**  
**DE. ADVISOR, THUNDERBOLT SCHOOL OF GLOBAL MANAGEMENT, ARI**

**MS. MONICA KAPADIA**  
MEHTA  
JUDGE  
29 APRIL | 4 PM

**HATCH A PITCH**  
We are honoured to have you on the JUDGING PANEL for the FINAL ROUND

**HEAD OF MENTOR**  
**DEPT. EXECUTIVE OFFICER - INCUBATION**  
**CHARTER MEMBER - TIE, MASHVA, BARSEEN**

**MR. RONALD FERNANDEZ**  
JUDGE  
29 APRIL | 4 PM

**HATCH A PITCH**  
We are honoured to have you on the JUDGING PANEL for the FINAL ROUND

**MR. C. K. KUMAR, PUBLIC OFFICER, FUTURIST**  
**TECHNOLOGIST WITH 25+ YEARS IN SUBSIDIARY INDUSTRIES**  
**MENTOR AT SEBI (TECHNOLOGY BUSINESS INCUBATION)**

**MR. VIKAS DHAWAN**  
JUDGE  
29 APRIL | 4 PM

## HATCH A PITCH

As a part of the Entrepreneurship Week of Symbiosis Institute of Technology, organized by Entrepreneurship Promotion and Innovation Cell (EPIC), Hatch-A-Pitch the flagship B-Plan pitching competition saw tremendous participation and an incredible judging line for the semifinals. The event which was phased into 3 rounds, saw participation from all over India including several prestigious IITs and IIMs and involving several domains from agriculture to the fashion industry. The top 28 teams out of 150+ teams were selected for the Semi-Final Round where 12 esteemed judges evaluated pitches. The final round was judged by Ms. Drummi Bhat, Senior director market Intelligence and strategy Mitsubishi Power on 29th April.



# NEWS AND EVENTS

SYMBIOSIS INSTITUTE OF TECHNOLOGY, PUNE

SYMBIOSIS

## DIPLOMA SUMMER SCHOOL @ SIT

A specialized 2-week skill enhancement program for diploma students

For the following specialisations:

Mechanical | Civil | CS/IT | Electronics

Registration link [bit.ly/DiplomaSummerSchool](https://bit.ly/DiplomaSummerSchool)

Get an e-certificate for participation

Dates: 28<sup>th</sup>, 29<sup>th</sup> May 2021 & 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup> June 2021  
Time: 9 AM - 1 PM

No Registration Fee | Limited Entries

## Diploma Summer School at SIT

Symbiosis Institute of Technology, Pune had organized an insightful and fun-filled summer school program for diploma students which would help students to upskill themselves to become industry-ready. The Program was open for the students from Mechanical, Civil, CS/IT and Electronics branch on 28-29th May and 04-06th June 2021. The online summer school focused on Branch wise Technical hands-on workshops and panel discussions, Communication skills, Creative & Critical thinking skills sessions, Career guidance and confidence building activities, Bridge sessions for transition to engineering eg. Maths and so on.



# **THE EDITORIAL TEAM**

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**CHEIF EDITOR:**

**DR. AMBIKA PAWAR**

**FACULTY EDITOR:**

**PROF. PRACHI KADAM**

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**STUDENT EDITORIAL TEAM:**

**PRANAV NALE**

**TANISHQ KHETAN**

**PRONIT PARIDA**

**SHALMALI BHAGWAT**

