

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Sr. No	Activities for enhancing learning experiences
1	Coding as Institute's Core competencies
2	Enhancing emotional / intellectual integrity
3	Engineered programs to be market savvy like "Chemergence"
4	Events conducted by our students' chapters of Institution of Electronics and Telecommunication Engineers (IETE) & Computer Society of India (CSI)



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“Coding as Institute’s Core competencies”



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MHRD'S
INNOVATION CELL
(GOVERNMENT OF INDIA)



Date: 19-06-2021

Sub: Toycathon 2021 (Digital Edition) related

Dear Sir/Madam,

Greetings from the Ministry of Education's Innovation Cell.

We are glad to inform you that we have selected **Thadomal Shahani Engineering College, Mumbai** for hosting **Toycathon 2021 (Digital Edition)** that is going to be organized from 22nd-24th June 2021 and the winners will be declared on 26th June 2021.

The Digital Edition of Toycathon focuses on conceptualizing new and innovative games/apps based on Indian history, ethos and cardboard based toys using local materials which are economical, affordable, safe, environment friendly. The Toycathon is jointly organised by Ministry of Education's Innovation Cell, All India Council for Technical Education, Ministry of Women and Child Development, Ministry of Education, Ministry of Commerce and Industry Promotion, Ministry of Textile, Ministry of Information and Broadcasting, Ministry of MSME.

In this event, around 1300+ participants have confirmed their participation in the grand finale of Toycathon (Digital Edition). The honourable Prime Minister of India Sh. Narendra Modi has also consented to address the participants on 24th June 2021.

As a nodal center your responsibility is to coordinate with the participating teams assigned to you and make sure their presence in various sessions as per their schedule during the event.

We would also like to take this opportunity to remind you to follow all COVID related guidelines during the event and not to allow any team to enter your campus.

As a part of our commitment to respect everyone's Intellectual Rights you are requested not to keep or circulate any Toycathon related ideas unless until allowed by AICTE/MIC or its nominee.

For further communication, you may reach out to Mr Shubham Agrawal, Startup Fellow, +91-85598-16775.

Yours sincerely


Dr Mohit Gambhir
Innovation Director

Registrar/Principal/Director
Thadomal Shahani Engineering College, Mumbai
Mumbai, Maharashtra

Copy for information to
Tasneem Mirza
Single Point of Contact for Toycathon
Thadomal Shahani Engineering College, Mumbai

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ADVERTORIAL



THADOMAL SHAHANI ENGINEERING COLLEGE (Bandra, Mumbai)

Official Nodal Centre for TOYCATHON - 2021

22nd - 24th June 2021



Under the 'AatmaNirbhar Bharat Abhiyan' initiated by our Hon'ble Prime Minister, Shri. Narendra Modi, Toycathon-2021 is conceived to challenge India's innovative minds to conceptualize novel Toy and Games based on Bharatiya civilization, history, culture, mythology and ethos. Toycathon 2021 is an inter-ministerial initiative organized by Ministry of Education's Innovation Cell with support from All India Council for Technical Education, Ministry of Women and Child Development, Ministry of Commerce and Industry, Ministry of MSME, Ministry of Textiles and Ministry of Information and Broadcasting.

Established in 1983, Thadomal Shahani Engineering College (TSEC), would like to seize the opportunity and committed to contribute to the vision of our Prime Minister in furthering cause of supply chain of Human capital for the gaming industry which are growing in an accelerated fashion. We as an engineering College find resonance with Toycathon as we developed competency in "programming for Games" for a period of 10 years. We as an institute find these hackathon kind of events formulated by AICTE offer lots of value proposition to our students by initiating them to solving real time problems. Hackathon emerges as the single most popular event in the campus, which is essentially creating a multiplier effect to engage students productively.



All our invited to attend the inaugural ceremony at  TSEC OFFICIAL

Overview of Online Hackathon

TSEC CodeStorm organized the **first ever Online Hackathon** for 72 hours via the Zoom App. We aim to provide an opportunity to all the young talented engineers amidst the pandemic and hence we came up with the idea of Innovation at Home. There were 49 teams competing against each other to provide the best possible solution for the following domains:

1. AI/ML
2. Block Chain
3. Open Research
4. Web/App Development

The prizes for the Winning, 1st Runner Up and 2nd Runner-Up teams were 10,000, 5,000 and 3,000 respectively along with AI/ML course from one of our sponsors Let's Upgrade and internships opportunity to young talented engineers from Career Amaze. Apart from these, we had another company named SITH on board which provided selected courses to our top innovative students.

Not only this, one of our mentor Mr. Jay Shah has approached two of our teams for future collaborations and opportunity and Mr. Sumeet Rohra has joined hands with a student from our Hackathon to join his company and work with him.

The Hackathon was managed and planned by 12 members and 3 teachers over a period of a month.

The Winning Teams are:

Winner → Topic: Parking Occupancy Detection and Reservation System in Private and Public Parking spaces using Deep Neural Networks
College: Vidyalankar Institute of Technology (VIT)
Team Members: Vignesh Dhuri, Afzal Khan, Yash Kamtekar

1st Runner-up → Topic: Smart Water Monitoring and Mentoring
College: Thadomal Shahani Engineering College
Team Members:

2nd Runner-up → Topic: Grace -The Health App
College:
Team Members: Rahul Gala,

Glimpses of the Event:



Faculty and Judges



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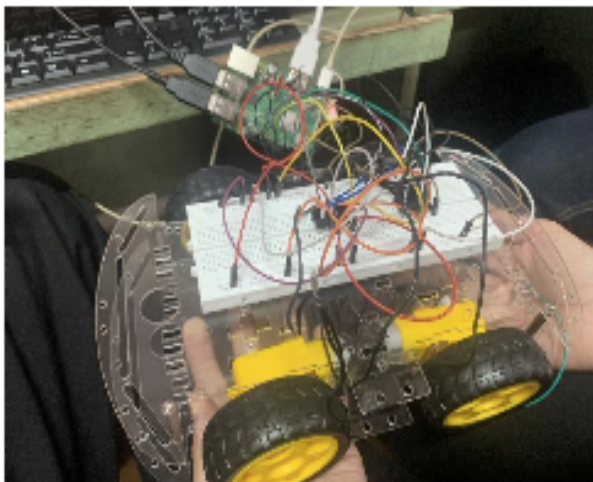




Judging Round



Participants



Projects Presented by Participants



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Enhancing emotional / intellectual integrity



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International Day of Yog (IDY'16) Report

Thadomal Shahani Engineering College (TSEC) observed "International Day of Yog"(IDY'16) today on 21/06/2016. National Service Scheme unit of the college, NSS-TSEC has conducted two days Common Yog Protocol (CYP) Training during June 20-21, 2016 on the occasion of worldwide celebration of IDY. This was initiated as Mr. Sachit G. Nalaskar, Program Officer of NSS-TSEC, had attended "Regional Teachers Training Program in Yog" jointly organized by Kaivalyadham (Renowned Yoga Institute in Mumbai), University of Mumbai and Ministry of AYUSH, Govt. of India for the purpose of imparting Yog training to the students.

The Nine NSS student volunteers had contributed in organizing of this event voluntarily and actively participated in the Yog Training followed by the IDY'16 celebration along with 4 other students, 4 passed out students and 11 Teachers and office staff totaling to 28 participants.

The CYP training consisted various sessions including Lectures, PPT presentations, Yogic Relaxation and Yoga Asanas on both the days. The Program commenced traditionally by lighting a Diya by Honorable Principal, Dr. G.T. Thampi followed by his motivating inaugural speech on importance of practicing Yog for youth and a common people. Mr. Sachit Nalaskar made the participants aware about the origin of Yog; Research on Yog; Major Yog Institute in India; Physical and Psychological benefits of Yog on human body. He also conducted Yogic Relaxation and CYP training to the participants. Ms. Mudita Dixit also conducted a session of Yog practice beautifully, sharing her energy and enthusiasm. Ms. Natasha D'Souza, Volunteer & regular yog practitioner of Isha Foundation gave wonderful speech on the beautiful changes and amazing benefits she has been experiencing.

All the participants were delighted on performing the Yogic practices, Mediation, observing the inner self (breath & body) to begin the journey towards Human Consciousness. The conscious actions are very much required for the Global harmony, Peace and Realization of importance of sustainable development in the view of present environmental issues. The Joy, Complacency and the glowing faces of the participants showed the fulfillment of the intended purpose of this event. The participants gave a decent feedback for the 2 day event and admitted to have motivated to practice Yog regularly.

As many Teachers were on vacation leave, they could not attend the event, so on their request, one more "2 Days Yog Training Program" is being organized by NSS-TSEC with the help of Kaivalyadham during July 8-9, 2016.



SACHIT G. NALASKAR
Program Officer,
NSS-TSEC

Dr. G.T. Thampi
(Principal)
TSEC



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THADOMAL SHAHANI ENGINEERING COLLEGE

Presents



‘आरोग्यम् धनसंपदा’ *Let us redefine Health*

Report on International Day of Yog (IDY'21)

NAMASKAR !

In the view of 7th International Day of Yog (IDY'21) following activities were conducted before and on 21st June 2021. The whole week was celebrated in TSEC by taking efforts of the NSS-TSEC team, Strong support of the Principal, enthusiastic Teachers, Staff & Students.

IDY is celebrated in TSEC every year by conducting various yog training conducted by various organisations from yoga and spirituality. TSEC has been associated with these organisations to give authentic yog training programs.

During the present Covid-19 pandemic, the yog training created a very much importance and the relevance to build physical immunity and the peace of mind among students, teachers and their families for the wellbeings. TSEC associated with various organizations like, Art of Livings, ISHA, Nisargopchar Kendra, Vadodara, Kaivalyadhama, etc. with the help of our regulatory body AICTE and Ministry of Youth & Sports, Ministry of Education, etc.

All the activities were conducted in order to create more awareness and hands on training on simple Yogic practices. More stress was given on the Kriyas necessary to keep general health, immunity boosting and preventive health to fight against respiratory viral infections.

1. 3 day “Free Health Workshop”

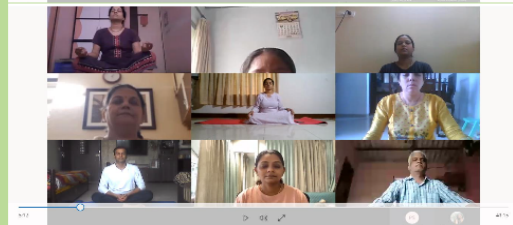
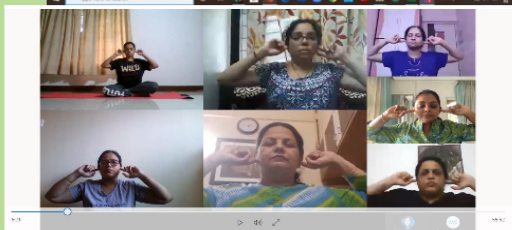
A three day “Free Health Workshop” conducted by “The Art of Living” during 16 – 18 June 2021 for the faculty of TSEC. Senior Teacher from The Art of Living has conducted the workshop. Simple Asanas, Pranayama and Guided Meditation were conducted. “Brilliant Breathing Technique” was also conducted.

28 faculty members had registered for this 3 day workshop.

2. “Immunity Boosting Webinar”

GLIMPSES OF THE EVENTS

1. Three day “Free Health Workshop” by THE ART OF LIVING





Engineered programs to be market savvy like “Chemergence”



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ABOUT ChEMERGENCE'17

In this plethora of everyday chaos, a senses of balance is what one wished for. But sometimes you have to rise above it to achieve more. It is the energy that we put after attaining our threshold that matters!

The above context is analogous to the thermodynamic concept of the term exergy. Exergy can be defined as the free energy available in the system. This year, charging forward with the idea to extract every individual's technical personification the theme titled harnessing exergy stood as a motivation and an inspiration to one and all. The confluence of all the efforts in raising the bar of expectations and innovations is what this year unfolded.

With various unit operations having their undisputed need, the analysis of feasibility in chemical engineering stands apart. The equilibrium conversion set to be achieved with minimal energy losses is what a Chemical Engineers engages in. The interpretation from exergy yields the location, magnitude and type of energy losses occurring in the system. The environment plays an important role in evaluating exergy. Creating an environment to harness exergy was what ChEMERGENCE'17 reflected. For many people the number 12 is just a two digit number. A committee of 12 was with what the 12 th edition of Chemergence started. Though small in number, it did not affect the team's determination to make this symposium a success. Every member worked selflessly, in this journey, sacrificing a lot without complaining. Challenges were tough but so was the commitment of each and every member. Harnessing Exergy, the theme for the year 2017 was meant to be much more. It reflected the fact that the team captured every small resource and harnessed it to its core.

The efforts of the team could not be summed up better than these two lines :

Don't Strive to be a Success
 But
 Rather to be of value!

EVENT

ChemLect

Talk with people who make you see the world differently!
 A stage set for students to witness wisdom up close from various pioneers of the chemical industry is what this event presented. The Echo of Experience heard in the room, gave everyone present a sense of integrity and a feeling of motivation. The enlightening exposure of the industrial practicalities by the keynote speakers was outstanding and was a great pleasure for team ChEMERGENCE'17 to have been acquainted with all of them.

Technical Paper Presentation

An idea is all what it takes to bring out a revolution. And an idea on paper, is just the emergence of it. Technical Paper Presentation gives the young minds a platform to showcase their ideas and welcome positive criticism right at the initial stage of development. TPP has helped finding specific strengths and flaws of many ideas that have been presented in the past years.

Poster Presentation

The secret of getting ahead is getting started!
 ChEMERGENCE'17 gave a juncture to all the participants to concoct a picture perfect frame on a meter squared area. To Resonate with the spectrum of colors and stand out from the black and white. The idea to knit the Chemical Engineering knowledge from broad Paragraphs to bullet points having maintain an equilibrium between the technical and creative skills is what this event presented.

Cool It

To solve the pinching of the industry by the heated hotspots, the engineering mind soon to be in play in the industries were tested at ChEMERGENCE'17 in it's event Cool It. Participants had to design a miniature cooling tower model to keep the industrial sensitivity at par. By narrowing it down to the natural draft, harnessing of air, an utmost

DESCRIPTION

Exact to React

The role of kinetics is utmost important and builds the foundation of the Reactor Design. At ChEMERGENCE'17 we emphasized on the formulation of these foundations and made them stronger by having students predict, perform and present their understanding. Participants had to develop a theoretical model and support it with experimental evidence.

To load the reactive areas of the brain with concepts of Chemical Reaction know-how's and to engineer a Reactor by triggering the calculations and achieving the desired conversion, this event truly witnessed an ingenious mindset of all the participants associated with the event!

ChemQ

In youth we learn, with age we understand!
 ChemQ at ChEMERGENCE'17 offered a perfect stand for participants from various Institutes to tackle the technicalities and emerge out as a Chem master. The event involves principles of Chemical Engineering and a test of wit and proficiency of competitions in this field. The combination of the strength of patience to elude the strains on the brain and respond as a quick reflex, this event titled with one winner!

Scratch Design

The beginning of all things are small. From some dimensions on a sheet to design on site, the journey from Reactants \rightarrow Products starts from a scratch.

Scratch Design, An incipient event in ChEMERGENCE'17 also tested the future minds on their knowledge of Process simulation. Mustering their skills of Material and Energy balances, participants had to help the product to travel to its Destiny.

Beatz

ChEMERGENCE'17 hosted one of the mind stupefying event wherein the participants had to market their design to the audience present. To speculate the participants aiming to bring down temperature, their out of box thinking to increase the residence Time flipped the coefficients of their mind. From it's initial design on paper to it's posterior, the hardwork of every participant bore fruit knowing now that they stand one step away from solving one of the major industrial problems.

Salt Act

The analytical portion of the brain will turn the picture of this game!
 ChEMERGENCE'17 following it's tradition gave an entire laboratory wherein the minds and analytical skills are kept in vigilance and scrutinised on the result of deduction. The agility and the dynamic response spurred up the entire system keeping in check the quality and quantity of resources at hand. The spectating pleasure of this event was such one wouldn't want to miss.

GLIMPSES OF ChEMERGENCE'16



(Handwritten signature)

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**Events conducted by our students’
chapters of Institution of Electronics and
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Computer Society of India (CSI)**



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1. TECHNEXT'16 (August 27th, 2016) conducted by CSI--TSEC

Event Name- Ethical Hacking Seminar

Speaker Name- Mr. Rizwan Shaikh: India's renowned hacker

Date and Time- August 27th, 2016 at 12:15 PM

Venue- Meera Wattumal Auditorium



Event Name- Interactive Talk Show

Speaker Name- Prof. Acharya: Btech, Mtech and Phd from IIT, TedX Speaker

Date and Time- August 27th, 2016 at 11:00 AM

Venue- Meera Wattumal Auditorium

2. Workshops on August 20th, 2017 conducted by CSI--TSEC

Day 1:

Event Name- Robotics Level 1 Workshop

Team Size- Group of 4

Date and Time- August 19th, 2017 at 10:00 AM

Event Name- Counter Strike and FIFA Gaming

Date and Time- August 19th, 2017 all day

Event Name- Ethical Hacking Seminar

Speaker Name- Mr. Rizwan Shaikh: India's renowned



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hacker

Date and Time- August 19th, 2017 at 17:00 PM

Venue- Meera Wattumal Auditorium

Day 2:

Event Name- Power Bank Making Workshop

Date and Time- August 20th, 2017 at 10:00 AM

Event Name- Talk Show

Speaker Name- Mr. Adithya Iyer

Date and Time- August 20th, 2017 at 17:00 PM

3. ELAN'18 conducted by IETE--TSEC

Technical fest conducted on 29th and 30th of September 2018. Following are the workshops and events conducted in the fest:

1. MSI Campus Meet
2. Technical Paper Presentation
3. Ethical Hacking Workshop
4. Android Workshop
5. Virtual Reality Workshop
6. Circuit Building Workshop
7. Python Workshop



A blue handwritten signature of Dr. G. T. Thampi.

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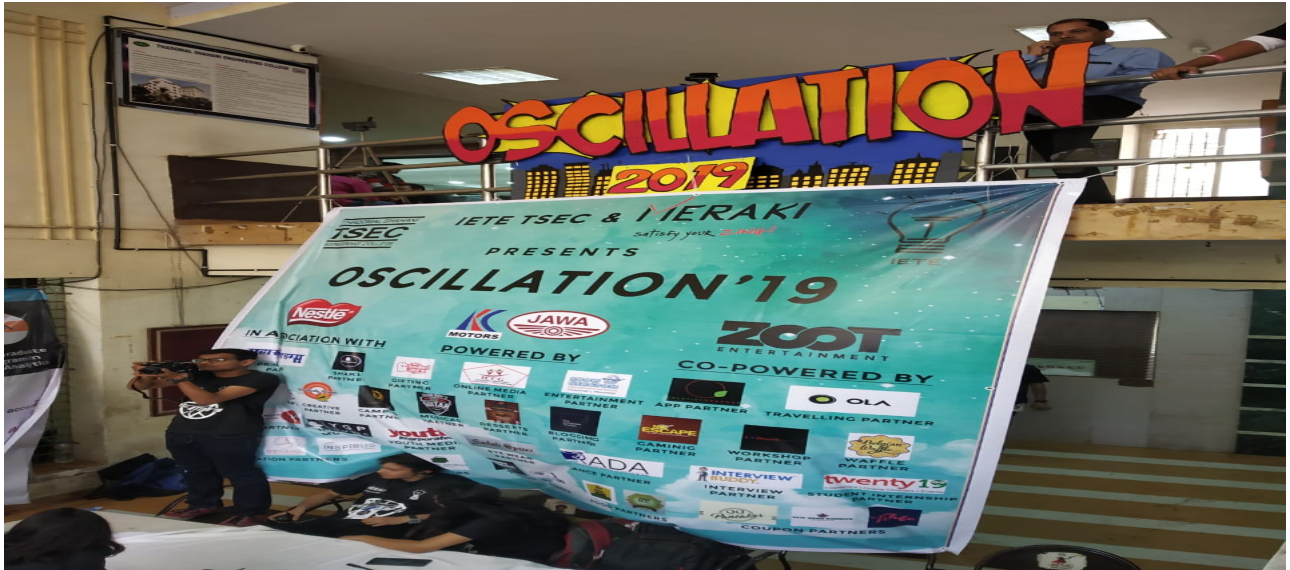
4. OSCILLATION'19 conducted by IETE--TSEC

Technical fest conducted on 9th and 16th March 2019. Following are the workshops and events conducted in the fest:

1. Python Workshop
2. Machine Learning Workshop
3. Android Workshop
4. Ethical Hacking Workshop
5. Virtual Reality Workshop
6. Web Development Workshop

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