



Capomaestro 2021 | SIT Pune

A detailed report_Capomaestro2021

Annual Tech Fest

Civil Engineering Department, SIT, Pune

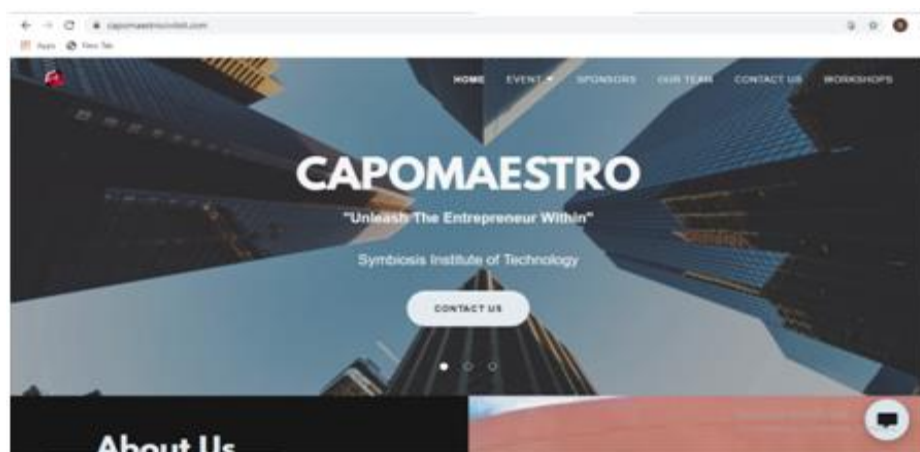
CAPOMAESTRO REPORT

CAPOMAESTRO is the annual technical festival of the Civil Engineering Department, Symbiosis Institute of Technology, Pune. With the goal of promoting students to innovate, establish and perceive interesting events and competitions. We have been organizing many amazing competitions like Constructo, Dimensions, many more and this year too we have maintained our level. In fact, we have raised the bar by holding a bunch of interesting competitions like Co-Rail, Poster Presentation, Hackathon etc. Not just this, we are organizing various webinars on interesting subjects and software like Revit. This is the first time when a core branch like Civil which is all about hands-on practicing, has come up with events on an online platform.

A special segment was organized for the branch faculties, staff and also for the core team, where a game of Tambola was played and all the participants enjoyed before finally attending the CAPOMAESTRO night, the official ending of the TECHFEST.

Techfest Promotional Activities and Response:

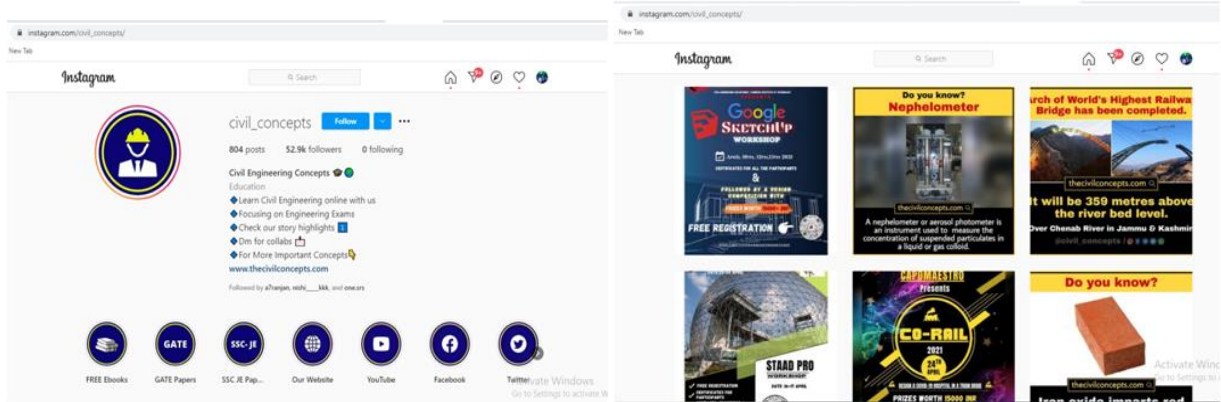
- Registrations from more than 100 different Institutions all across India including polytechnic colleges, Engineering Institutes, Management Institutes, Commerce Institutes, working professionals.
- Registrations from more than 15 states of India as well as International participation
- Dare to compete number of views more than 15000.
- Workshop participation more than 200 for each workshop.
- Total participation in Capomaestro 2021 events: More than 2500 from outside SIT!



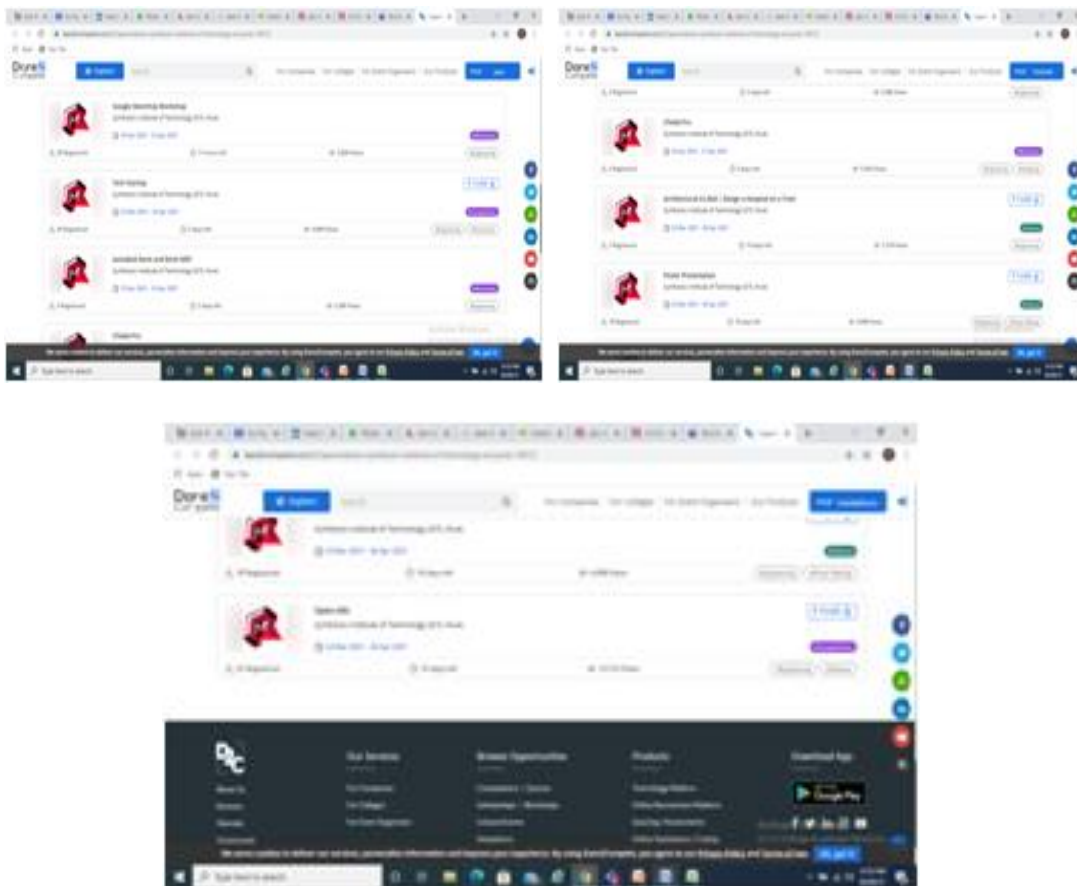
Civil Engineering students designed their own website for Tech Fest promotion.

<https://capomaestrocivilsit.com/>

Tech Fest sponsorship from Civil- Concepts- Promotion of Capomaestro events and Pre-Techfest workshops on Civil- Concepts IG handle having 53000 followers.



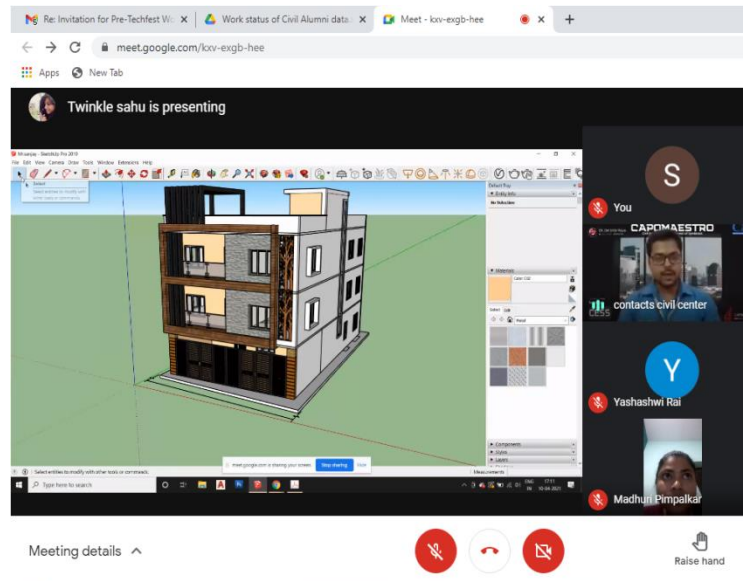
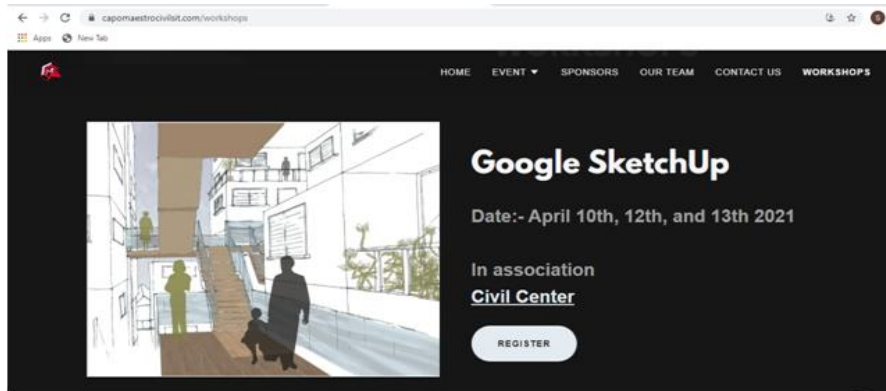
Events put up for publicity on Dare to Compete website:



Pre- TechFest FREE WORKSHOPS

Team Capomaestro organized Pre-Techfest workshops. More than 200 participants from outside SIT registered for each workshop. Detailed workshop reports are attached separately.

3 Days workshop on Google SketchUp from 10th to 13th April 2021



2 Days workshop on Autodesk Revit from 13th to 14th April 2021

capomaestroindia.com/workshops

HOME EVENT SPONSORS OUR TEAM CONTACT US WORKSHOPS

AUTODESK REVIT

Autodesk Revit

Date:- April 13th, 14th 2021

In association
Graphix Technologies
 Centre Government CAD/CAM/CAE
 Training Institute

REGISTER

Activate Windows
Go to Settings to activate it

CAPOMAESTRO GRAPHIX TECHNOLOGIES

PRESENTS

AUTODESK REVIT WORKSHOP

APRIL 13TH, 14TH 2021

CERTIFICATES FOR ALL THE PARTICIPANTS

&

Followed by a design competition with

PRIZES WORTH 15000+ INR

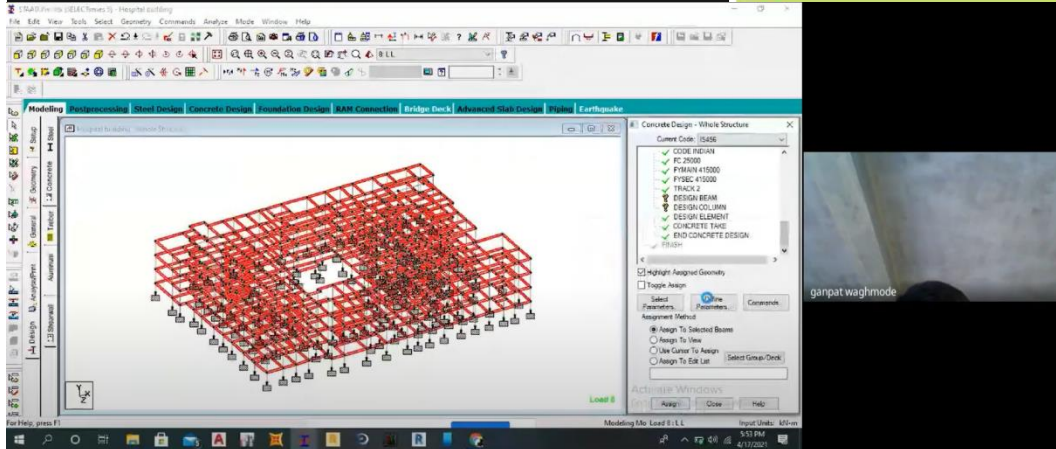
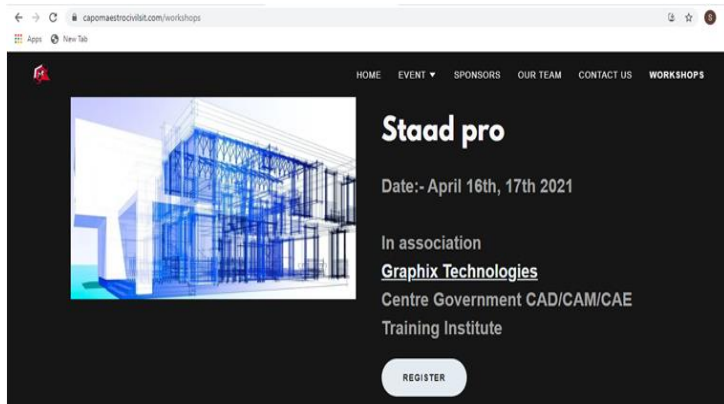
FREE REGISTRATION

HTTP://WWW.CAPOMAESTROINDIA.COM

youth ACC AMBASSA BNTICECARD

rucha dhapte

2 Days workshop on Staad Pro from 16th to 17th April 2021



DETAILS OF TECHNICAL EVENTS

Event: Tech StartUp

Event Head: Muskaan Kushwaha, Bhavya Kothari

Judged by:

Dhananjay Apte (Founder of SigmaCon),

Rutuja Deshmukh

Keerthi Kadam (Entrepreneur)

Panelist – Prof. Vaishnavi Dabir

The image shows a Zoom meeting interface. The top part displays a grid of participants, including Bhavya Kothari, Diksha Sharma, Ashish Ranjan, Keerthi Kadam, karthikeyan, Gowtham G, Kanchan Khare, Rushikesh Kulkarni, sanjay kulkarni, Sayali Sandbhor, Vaishnavi D, Vilas Gaikwad, and rutuja deshmukh. The bottom part shows a shared presentation slide titled "FINANCIAL ANALYSIS".

FINANCIAL ANALYSIS

INITIAL ONE TIME INVESTMENT = 1.88 to 2.85 Cr INR
MONTHLY CASH BEHEN = 9 to 10 LAKH INR
Start: Proposition based on the number of school (school) systems.

Key Success: Total revenue: 41% per year
Gross Margin: 37% per year

Breakeven point: 2 year 3 months (Approx.) OR 11-12 Schools

Revenue Analysis	Year 1	Year 2	Year 3	Year 4	Year 5
Units (Single)	14.1	146.1	146.1	174.1	174.1
Total Revenue	174.1	146.1	146.1	174.1	174.1
Total Profit	14.1	146.1	174.1	174.1	174.1

About the Event :-

Capomaestro, SIT Pune in association with "Symbiosis Centre for Entrepreneurship and Innovation" and "Institution's Innovation Council" had organised Tech Startup an innovative sprint-like multi-disciplinary event open to participants from all the streams in which participants were tested based on their spontaneity, problem-solving abilities, and creativity. This event aims at encouraging young minds to pitch their sustainable solutions to the given problem statements as a startup idea.

Topics Given: Green building construction, Smart infrastructure, Energy efficiency, Smart mobility, Smart waste management (Solid and water), Smart water management.

The participants were given problem statements related to the topic chosen by them and they are expected to come up with an innovative, creative and sustainable solution which they will need to present as a startup pitch.

The event was conducted in three stages. The first stage was to submit a concept note(not more than 1000 words) latest by 18th April, 2021. The second stage required the participants to submit Business model canva and Business plan presentation by 22nd April, 2021. The third stage(final) included their startup pitch on 24th April, 2021 by all those participants which qualified previous stages. Deadline to register was: 10/04/2021

Id	Team	Team Leader	College/company	Players
XDB1988	AJAY SIMHA REDDY MOLDIREDDY	AJAY SIMHA REDDY MOLDIREDDY ajayr@imidr.ac.in	Indian Institute of Management (IIM), Indore	1
Team Members				
Player	Email	College/Company	Mobile	Year of Study
AJAY SIMHA REDDY MOLDIREDDY	ajayr@imidr.ac.in	Indian Institute of Management (IIM), Indore	+919108872003	1
BFK2845	INFINITIX	Satyam Raj satyamraj1999@gmail.com	Cambridge Institute of Technology (Citech), Bangal...	1
GZW7006	SHUBH MITTAL	shubh mittal shubhmittal572@gmail.com	Delhi Technological University (DTU), New Delhi	1
RK27729	INNOVATORS HUB	Abhishek Bachchan abhishek.bachchan@psmsom.in	Shallesh J. Mehta School of Management (SjMSOM), L...	1
YEO8023	SHAZAMS	Gowtham G gowthamganesan03@gmail.com	PSNA College of Engineering and Technology (PSNACE...	2
QERS819	HONCHO	Siddhesh Blyani 409ez@gmail.com	Indian Institute of Technology (IIT), Bombay	3
MUV7268	VISALINI	visalini visalini.271099@gmail.com	Chengalpattu medical College	

Winners:

1st -Gowtham G., - PSNA College of Engineering and Technology (PSNACET), Dindigul

2nd-Anup Paikaray- College of Engineering and Technology (CET), Bhubaneswar

3rd-Satyam Raj- Cambridge Institute of Technology (Citech), Bangalore

4-Suraj N- REVA University

5-Chinmaya Naik- G. H. Rasoni College of Engineering (GHRCE), Nagpur

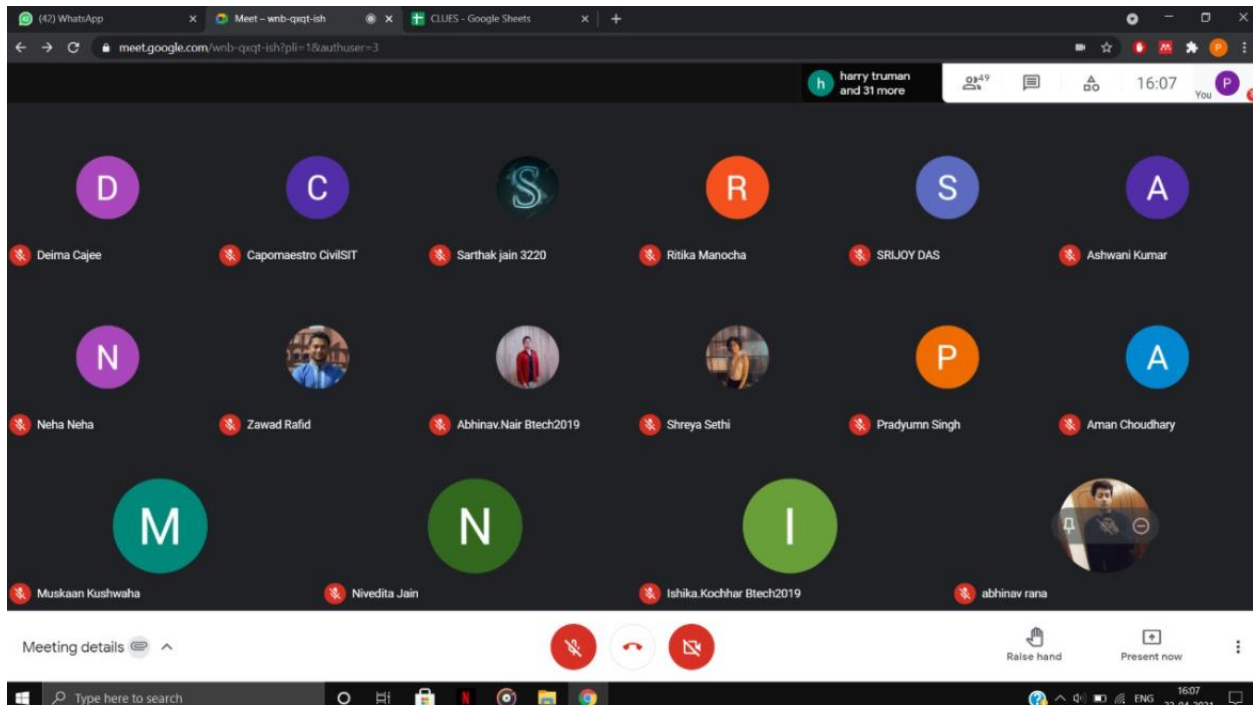
Total Registrations:

<https://docs.google.com/spreadsheets/d/1VbebkpGxucICBRR07J3Gis0kqFLejQVbcqtmZIS4rkw/edit#gid=0>

Event: Co-Rail

Event Head- Komal Pukale, Saketh Bhathipudi

Judged by- Arch. Ravindra Sawant & Arch. Tejas Pingale



Co-Rail is an event for all creative thinkers out there who can design a hospital unit in railway which can help to win the battle against COVID-19. The hospital on wheel concept gives the solution to the arising problem of insufficient beds due to a surge in the number of cases. Hospital is to be designed in a train compartment incorporating modern technology, materials, and aesthetics. This is your opportunity to present ideas in the most creative way and win exciting prizes. COVID-19 pandemic has turned the world upside down, resulting in deaths and affecting many lives. The team of Symbiosis has come up with an initiative for overcoming this challenge to help the covid warrior to win the battle against this pandemic. The hospital on wheel concept gives the solution to the arising problem of insufficient beds due to a surge in the number of cases. Hospital is to be designed in a train compartment incorporating modern technology, materials, and aesthetics. The competition focuses more on the design and creative skills of the participant. Team should consist of a maximum of 4 members and should be there in the team. Individual participation was allowed.

Participants were asked to choose a coach of length of their choice but, the recommended length of one coach of 23 meters and the number of coaches depended on the participants but should not be more than 24.

Submission was to be presented on a 1 landscape-oriented A1 Size sheet. The word limit was given as 400 words for proposal explanation. Team code was to be mentioned at the top right corner of the sheet.

Submissions were presented using any technique of the choice of participants (Sketches,

2d drawings, 3d Visuals, Models etc). The deadline for submission was 15th April.

The judging of Designs was entirely dependent on the Jury panel. The participants were judged based on their overall architectural design including the shape, size, and scale of the project along with the functionality, uniqueness and innovation to serve its purpose.

Winners were featured in Capomaestro website (<https://capomaestrocivilsit.com/>) and all social media pages of CAPOMAESTRO SIT, PUNE. Top designs were also featured in top architectural magazines.

Id	Team	Team Leader	College/company	Players
HE54556	PARTH SHAH	PARTH SHAH paarthshah4567@gmail.com	Kapol College, Mumbai	1
Team Members				
Player	Email	College/Company	Mobile	Year of Study
PARTH SHAH	paarthshah4567@gmail.com	Kapol College, Mumbai	+917400398110	3
LGE7505	SURABHI CHAUDHARY	Surabhi Chaudhary surabheschaudhary2001@gmail.com	Institute of Engineering and Technology	1
GXM4068	DA	Vaishnavi vaishnavik353@gmail.com	KLS Gogte Institute of Technology	1
SMB4311	M.R.MEGHANA	M.R.Meghana r171078@rgukt.ac.in	Rajiv Gandhi University of Knowledge Technologies ...	1
FHY4495	YL	ORUGANTI RUTHVIKA SHIVALI shivaliruthvikai@gmail.com	Shri Ram College of Commerce (SRCC), University of...	1
MCJ1065	JAYESH PREMCHANDANI	jayesh premchandani premchandanjayesh1410@gmail.com	St. Xavier's College (SXC), Kolkata	1
HVF9965	SARGAM SINGHAL	Sargam Singhal spm02sargams@imrohtak.ac.in	Indian Institute of Management (IIM), Rohtak	1

Winners:

1st- Hariprasath B.S (Bannari Amman Institute of Technology)

2nd- Aman Kumar and Kajal (Bharati Vidyapeeth College of Engineering,Pune)

3rd- Yukta Kulkarni and Taskeen Kudalkar

Total registrations:

https://docs.google.com/spreadsheets/d/1BDRSpXrZ3xJJcGy9tG9J5BhK_7z1X6Tw_hw8bNptla6E/edit#gid=0

Event: Poster Presentation

Event Head- Sara Baig, Ather

Judged by- Dr. Sanjay Kulkarni, Prof. Humera Khanum, Prof. Rushikesh Kulkarni
Present your ongoing or finished project in the most creative way you can. If you are a research enthusiast and feel that you can make an impression with your extraordinary

demonstrating skills then the Department of Civil Engineering invites you to participate in Technical Poster Presentation 2021. The team should consist of a maximum of 5 members. Individual participation was allowed. The date of submission was April 20th 2021. Preferred language was English.

Certificate of participation for each team member from CAPOMAESTRO SIT, PUNE.

Top Posters will be featured in Capomaestro website (<https://capomaestrocivilsit.com/>) and all social media pages of CAPOMAESTRO SIT, PUNE.

DYNAMIC SURFACE WATER MAPPING OF INDIA
 MS. MALIK RUKHSAR, MR. MARRIPALLY SAI ROSHAN & MR. ANKIT YADAV
 GUIDED BY: PROF. RUSHIKESH KULKARNI & PROF. KANCHAN KHARE

BACKGROUND

- Global Water scenario shows, out of total Global water available 96.5% water is saline and available in Oceans. 2.5% water is fresh water.
- Surface water bodies are critical for water resources, for both human and ecological systems.
- Surface water bodies are dynamic in nature as they shrink, expand, or change their appearance or course of flow with time.

NECESSITY

- Variations of water bodies affect the climate and the natural resources and properties.
- Change in surface water volume usually causes serious consequences. In extreme cases, rapid increase of surface water can result in flooding.
- Therefore, it is crucial to efficiently detect the existence of surface water, to extract its extent, to quantify its volume, and to monitor its dynamics.
- For sustainable and efficient water resources and ecosystem management, monitoring of lake/reservoir in terms of area and depth is very important.
- Satellites observe lakes and reservoirs and monitor surface area water level, and bathymetry over time.

OBJECTIVE

Major Objective:

- Time series surface-water mapping in India for surface-water inventory.

Minor Objective:

- Understand and explore the geospatial technology for application in water resources management.
- Explore the GIS tools and techniques.
- Accuracy analysis of water map for validation of result.

REMOTE SENSING OF LAKES

LAKE PARAMETERS	SATELITE	SENSOR	SPECTRAL MEASUREMENTS
Surface Water Extent	Terra AquaSat	100 m	1/2/3/390 - Present 1/2/3/390 - Present
Surface Water Extent	Landsat 5, 7, 8	30 m	4/2/3/390 - Present 2/2/3/390 - Present
Lake Level and Bathymetry	Jason 2	1 km x 1 km 300 km ²	06/2008 - Present 01/2016 - Present
Lake Level and Bathymetry	SAT-3	1 km x 1 km 0.1 km ²	02/2018 - Present 80-day

RESULTS

The state wise Surface Water maps is possible to be develop on yearly temporal resolution

DISCUSSION

Change in Surface water area over time

Year	Area	Year	Area	Year	Area
2002	54798.1	2008	57446.1	2014	58507.33
2003	54845.4	2009	56646.86	2015	57876.59
2004	55418.3	2010	56742.11	2016	57478.59
2005	55895.8	2011	58050.32	2017	57369.85
2006	56175.3	2012	58223.82	2018	56368.87
2007	57897.6	2013	58742.33		

CONCLUSION & FUTURE RESEARCH

The current study propose the dynamics of surface water over a year interval. The study make the use of MODIS/2011 MODIS product for detecting and extracting the surface water with the scale of an "250 m". The validation of result is not possible without the ground truth data. The validation of result is not possible without the ground truth data. The validation of result is not possible without the ground truth data. The validation of result is not possible without the ground truth data. The validation of result is not possible without the ground truth data.

Winner:

1st-Malik Rukhsar Nisar and group- SIT

2nd-Venkatesh Vm, Bannari Amman Institute of Technology

3rd-Jainam Shah and Meet Rabadia, SIT

Total Registrations: https://docs.google.com/spreadsheets/d/1VkdTc_CY-eTHvKUmJl-RJoSlylbp8ofasyiQLV--JSs/edit#gid=0

Event: Open-Mic

Event Heads : Gopalan Sundhareswaran, Deimapisha Cajee

Judged by: Dr. Neha Divekar, Kirti Vyas, Dr. Sayali Sandbhor, Vaishnavi Dabir and Dr. Shruti Patil.



Open-mic was an event in which there were participants from technical as well as non technical backgrounds alike. We held separate events for both of them. In the technical open mic, participants were allowed to select a topic of their choice and were supposed to speak on the same. In the non technical the participants were given an open choice where they could perform anything like poetry, music, stand-up comedy etc. Both events had separate sets of judges. Each event had its own judging criteria. This ensured a smooth and fair process. Both events had a pre-qualification and a final round. The participants will receive certificates of participation and winners will receive interesting prizes. The deadline for the registration was 18th April 2021 23:59 IST and the pre-qualification rounds were done by 22nd of april. The finals of Technical Open Mic was held on 23rd and for Non-Technical on 24th. Prizes for the winners were announced on the 24th evening during the prize distribution ceremony. Top winners stand a chance to get featured on our social media handles and on our website.

View Registrations : Open-Mic

Dashboard Home
View Opportunity
Edit & Customize
Registrations
Registrations Stats
Manage payments
Communication

Registrations

TEAMS: 82 Search here All Per Page: 10 No Filter

Id	Team	Team Leader	College/company	Players
BOW5591	SANJEEVNI	Sanjeevni sanjeevni@bhardwaj@gmail.com	JANKI DEVI MEMORIAL COLLEGE	1
Team Members				
	Player	Email	College/Company	Mobile
	Sanjeevni	sanjeevni@bhardwaj@gmail.com	JANKI DEVI MEMORIAL COLLEGE	+919205147656
GXQ8283	ALOK KUMAR	ALOK KUMAR alok7631899521@gmail.com	Government Engineering college vaishali, Bihar	1
TOY8497	KHYATI SHASTRI	Khyati Shastri khyatisastri0208@gmail.com	Shri Govindram Sekasaria Institute of Technology a...	1
RW09467	ARUN SHARMA	Arun Sharma sharmaarun0306@gmail.com	Poornima College of Engineering (PEC), Jaipur	1
PAK9194	ARUNVIKAS V	Arunvikas V arunvikas02@gmail.com	SRM Institute of Science and Technology (SRMIST), ...	1
LZP3673	UNOHITO	Anuska Mukherjee anuska.mukherpe2000@yahoo.com	VIT Bhopal University (VT), Bhopal	1
RVS1558	HARSH MAHESHWARI	Harsh Maheshwari harshm701@gmail.com	Faculty of Management Studies (FMS), MLSU Udaipur	1
	KHUSHI SHARMA	Khushi Sharma		

Winner: Open mic technical

1st- Alexander Joy P., Cochin University of Science And Technology (CUSAT), Kochi

2nd- Sonia Mishra, VPM'S TMC Law College, Thane

3rd- Yasha Srinivasm Don Bosco Institute of Technology (DBIT), Bangalore

Winner: Open mic non-technical

1st- Alekhya Rakhecha, Symbiosis Institute of Business Management (SIBM), Bangalore

2nd- Amarnath- Aurora's Degree College, Chikkadpally, Hyderabad

Total registrations:

<https://docs.google.com/spreadsheets/d/148bof3BKIUNDOpG4G66VSPqf2VQ79o2W6Kj-DTX4xd4/edit#gid=0>

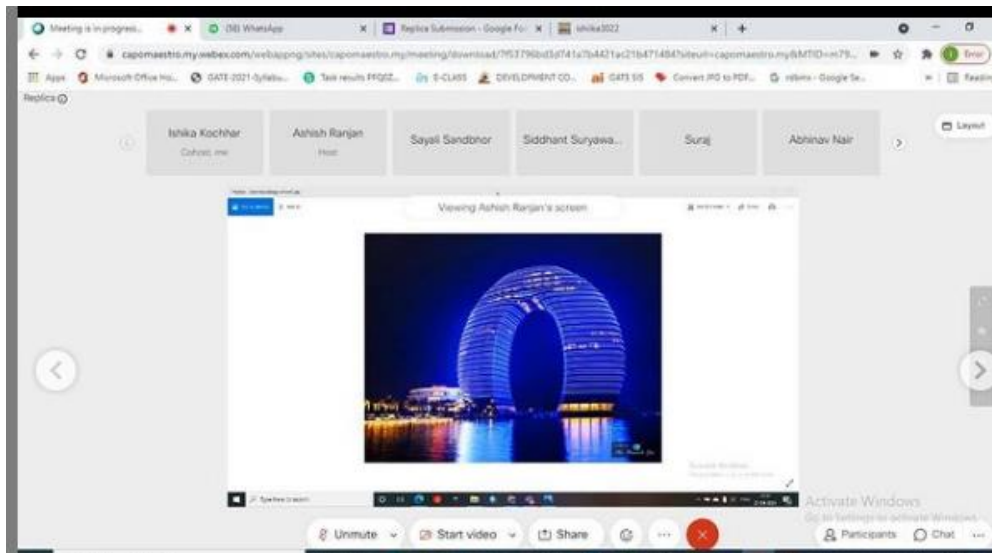
Fun Events

Amidst all the productivity all day, the mind needs time to take a break. In between all the activities, light-minded yet super fun games are planned for everybody to sit down and have fun. The goal is to keep everybody in a good mood to stay fresh and active throughout the day. We had organised various fun events including, Maze Mania, KBC, Replica, UNO, Bingo etcetera. Maze Mania event was based on riddles and picture puzzles and was staged in three different rounds. KBC i.e., Kaun Banega Champion was based on the principles of a famous TV show hosted by

Shri. Amitabh Bachchan. For hosting this event, our team had prepared our own platform. Following this, we had also organized an event called Replica where an image of a famous structure was shared with the participant and they were supposed to replicate that using AutoCAD. We also hosted an U.N.O. tournament and a few BINGO games for our participants and audience.

The team designed its own Gaming App for Kaun Banega Champion and Uno.

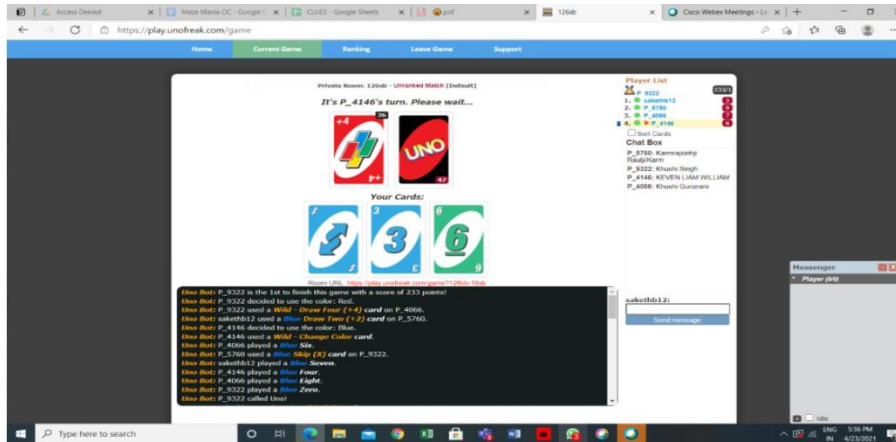
REPLICA



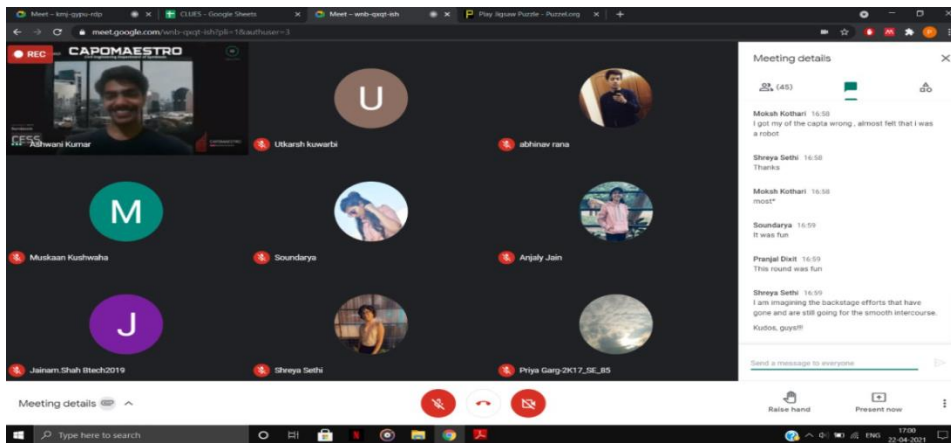
KBC



UNO



MAZE MANIA



Winners:

KBC	Hitarth, Sutej - NIT Jamshedpur and Discitum- Vivekanand School
REPLICA	1st -Zawad Rafid, Islamic University of Technology, Bangladesh 2nd-Pratik Thakur, Shri Ramdeobaba College Of Engineering And Management, Nagpur 3rd- Nitisha Gaikwad
Maze Mania	1st- Abhinav & team, 2nd- (tie) Levita, Aman
UNO	1st- Jayesh Jeswani , IIM Amritsar 2nd- Khushi Singh, Gujarat University

Total Registrations:

KBC: <https://docs.google.com/spreadsheets/d/1MmWPX8CmRx05Ad04wNAXrLfE5xRl6E45Arm4jYgSWEM/edit>

REPLICA: https://docs.google.com/spreadsheets/d/1OmbAqmlQ07BOY6kxiRqyY_pQ1-X_JlITYuaYHhATrxY/edit#gid=0

MAZE MANIA: https://docs.google.com/spreadsheets/d/1kdcSgroj6l-fvffEI4v2O1Ly7rhLnH8Wfbe7KMgwZ_k/edit#gid=0

UNO:

<https://docs.google.com/spreadsheets/d/1ienZkTKvE8FKAGzfDiVQbwgZ5GnMwCQiFVmEglg1bWc/edit#gid=0>

PRIZE DISTRIBUTION and CLOSING CEREMONY

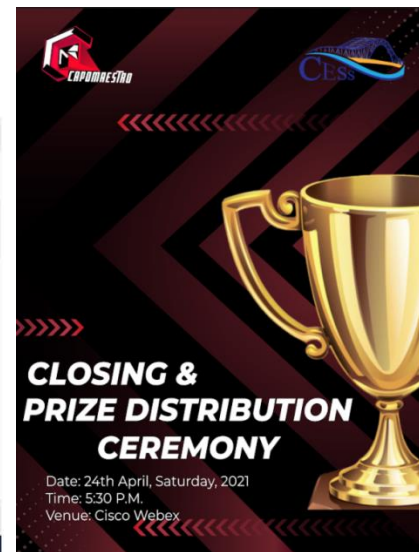
CESS Team planned four major technical events along with 4 fun events. Capomaestro hosted more than 3000 participants for its virtual events. It was a grand success.

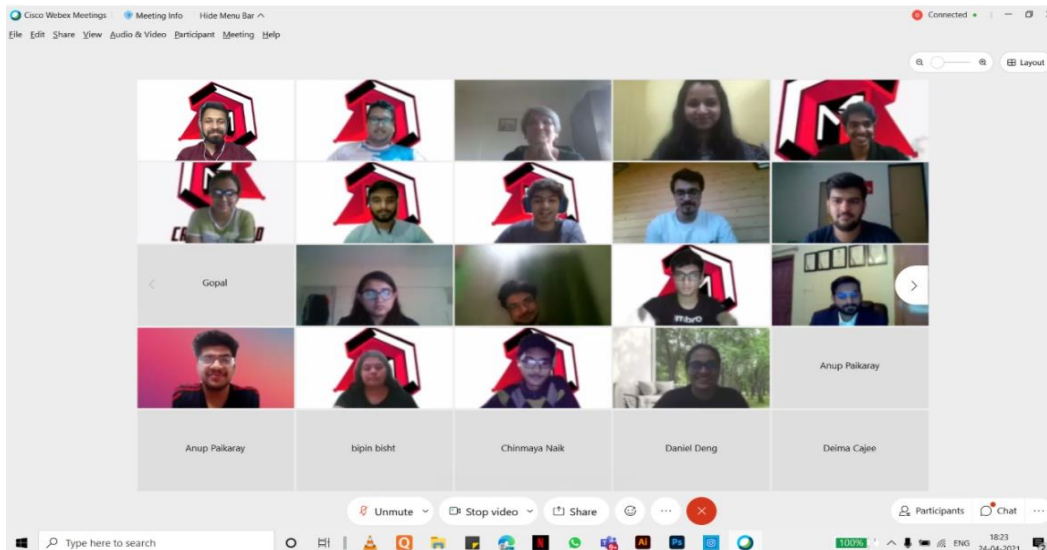
Prize distribution and closing ceremony was organized by the CAPOMAESTRO team and all the winners were announced. Our sponsors and collaborators had joined as well where they motivated our students team and participants to work smartly and wisely in their respective pathways to success and career.

Prize Distribution for events took place on a virtual platform and students designed and developed virtual ceremonies for giving away prizes.



Mr. Kirti Shekhar Pathak- C.E.O at M/S Ashoka Construction Company, and Entrepreneur, Strategist, Growth at SkyZeg Private Limited, Delhi, was invited for the Prize distribution at Capomaestro 2021. He graced the occasion and the prize distribution ceremony took place in his presence.





CAPOMAESTRO NIGHT: Comedy Night post Success of Capomaestro 2021

For a memorable closing of CAPOMAESTRO 2021, we had organized a comedy night where we had invited 3 comedians who made the techfest an even more special event. All the techfest teams, faculties, students, participants and the core team as well were invited for the comedy night. This marked the end of CAPOMAESTRO 21.

