SSTH 2K22
SAHYADRI SCIENCE TALENT HUNT

Innovations Change the Future

SSTH 2K22
SAHYADRI SCIENCE TALENT HUNT

Saturday 26th November 2022

Grand Finale Inaugural Ceremony

@10:30 am

Chief Guest : **Dr. B E Rangaswamy**
Registrar (Evaluation)
Visvesvaraya Technological University, Belagavi

Project View : **11:00 am - 01:00 pm**

Student Interaction : **2:00 pm - 3:00 pm**

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Valedictory and Prize Distribution
Venue : Sristi Open Air Auditorium
@ 3:30 pm

Chief Guest : **Dr. B E Rangaswamy**
Registrar (Evaluation)
Visvesvaraya Technological University, Belagavi

Presided by : **Sri. Manjunath Bhandary**
Chairman, Bhandary Foundation, Mangaluru

Guests of honour : **Mr. Sushil Mungekar**
Founder & CEO - ENpower

: **Mr. Prithvi Sai Penumadu**
NITI Aayog & Program Manager at OmegaOn

: **Mr. Mukesh S, Program Manager**
Beyond Bengaluru at Karnataka Digital Economy Mission

: **Mrs. Rajashree Devineni**
Marketing Manager at Ministry of Electronics and Information Technology

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Pranamya A Y	**Dr. Rajesha S**	**Dr. Manjappa S**
Project Co-ordinator	Principal	Director - R&D

Faculty, Staff & Students

The Government of India has felt The need to initiate and enhance students' interest In Science & Technology. IITs and IISc began organizing Science Conclaves annually to create awareness and interest among the students. However, organizing such a challenging event is a strenuous affair due to the high magnitude of institutions in the state. Embedding an entrepreneurial mindset at an early age broadens their perception of societal problems, which will eventually manifest as an opportunity. This will sensitize young minds to community problems, encouraging them to be problem solvers. Therefore, Sahyadri College of Engineering & Management feels that it is its responsibility to take this up as an initiative and started Sahyadri Science Talent Hunt - SSTH, to encourage students to take up projects and give life to their ideas.

Sahyadri Science Talent Hunt is an annual innovation event that encourages young minds from schools and colleges to solve community problems. It is a platform for showcasing the excitement of scientific works and investigations, which will inspire them to pursue science as a career. The goal of this program is to provide a platform for exhibiting new ideas and the creative work of young talent of PU/+2 colleges, and High-schools constructing curiosity towards science and the latest technologies, enabling, ideating, facilitating, and empowering ideas that shall create a larger impact along with the exchange of views and ideas with their peers.

Objectives:

- To promote scientific and technological innovation
- To Raise awareness concerning socially inclusive innovations
- To promote project-based learning among young minds
- To encourage and inculcates student ideas.

Guest Profile

Sushil Mungekar

Mr. Sushil Mungekar is the Founder & CEO - ENpower, India's first entrepreneurship & life skills focussed company for young children. He is an education transformist and a strong proponent of introducing entrepreneurship learning and design thinking in schools to nurture an entrepreneurial mindset & 21st-century life skills among children in their most formative age. He has experience working with 27,000 children from diverse cities & backgrounds in India and taking them through the entrepreneurship life cycle in the most fun way, built a showcase platform India's Future Tycoons or popularly known as IFT. He is a former co-founder of Index Advisory Private Limited a pioneer in developing psychometric test tools for effective use in various non-traditional areas.

Prithvi Sai Penumadu

Mr. Prithvi Sai Penumadu is a prominent person from Atal Innovation Mission(ATM)-NITI Ayog. He is a Senior techno-managerial professional with a demonstrated ability of 6+ years to lead, manage and motivate team members to achieve product and organizational objectives. Served as a Key Stakeholder member in National logistic policy for transport efficiency by the Ministry of Commerce - 2018. He is a person with Superior communication, coordination, and leadership skills along with an Entrepreneurial spirit with a passion for emerging technologies.

Rajasree Devineni

Mrs. Rajasree Devineni is currently a Marketing manager at the Ministry of electronics and information technology, MeitY Startup Hub. She has worked with Tungsten Studio Lighting Design as Lighting Designer. She completed her Bachelor of Science in Electrical, Electronics, and communication from Sri Venkateswara University, Tirupati, and her Advanced Diploma in Interior Design from Vogue Institution of Fashion Technology, Bangalore.

Dr. B E Rangaswamy

Dr. B.E. Rangaswamy is presently working as Registrar Evaluation, Visvesvaraya Technological University, Belagavi. He was the Dean, Research & Development, and Professor & Head at the Department of Biotechnology, Bapuji Institute of Engineering & Technology, Davangere. He completed his Master's in 1995 and his Ph.D. (2001) from Bangalore University. He obtained higher level Training in Bacteriology and Air sampling techniques from Environmental Diagnostic Laboratory, Florida, USA in 2008 and attended a Course on Aerobiology organized by European Aerobiological Association jointly with International Aerobiology Association (IAA) at Roskilde University Holbaek, Denmark in July 2011.

Mukesh S

Mr. Mukesh is currently working as Program Manager- Beyond Bengaluru at Karnataka Digital Economy Mission(KDEM). He has worked with Edcil India as a Deputy Manager. He has completed his MBA from the Indian Institute of Management(IIM) Tiruchirappalli.

SSTH Core Team

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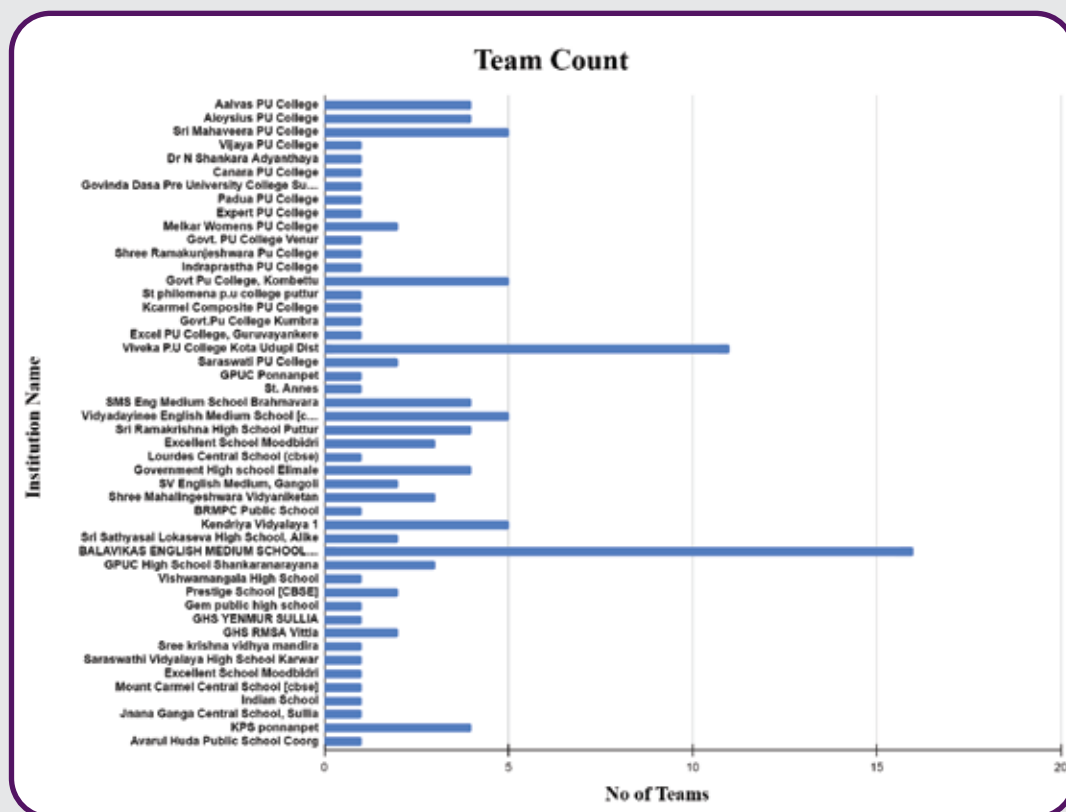adarshhorangala@gmail.com
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SSTH
Co-ordinators Team

Sl No.	Committee	Committee Head
1	Media & marketing	Zeliq
2	Documentation	Tejas
3	Registration	Diya Shetty
4	Evaluation	Devika Shetty
5	Mentors	Ashish
6	Food & Accomodation	Ben Bito Cherian
7	Discipline	Rachana
8	Layout	Gurudeep Shetty
9	Logistics	Chriag
10	Decoration	Nithesh Shetty
11	Take Away	Adithya R
12	Guest & Hospitality	Kishan M
13	Prizes and Momentos	Deeya Das
14	Help Desk	Mayur P S
15	Help Desk	Moksha Vinay Kodihitlu
16	Website & Portal	Sudhin Jyothis

Ideation

The most visible step in SSTH is ideation. Team SSTH will conduct workshop for the students to raise their awareness on Sustainable Developement Goals(SDGs), what problem-solving looks like and how to find the problem so that they can build really good projects. It has been observed during the event that having a such workshop for the students and making them aware of the problems in their surroundings has a greater impact on them to build the project.

This year, we visited 163 schools and colleges in the districts of Dakshina Kannada, Udupi, and Kodagu. We held 73 ideation sessions and interacted with nearly 7000 students from different region.

Statistics of Teams Participated from different Institutions

No. of Teams from the Different Institutions

Be with Engineering

The 'Be With Engineering' Programme was initiated with the prospect of providing resources and guidance to the students with the intention of converting their ideas into prototypes that are made by young creative minds, with fun and lots of learning. The process of invoking the thought in these young minds that the journey of learning, filled with laughter and lessons of life, is as important as attaining a successful life. Another objective is to create a platform to bring together students passionate about science and technology. It gives school and college students an overall view of what engineering truly is.

The feeling that there are no restrictions on dreams and every idea is unique can be brought to life by providing proper guidance and resources provided to young minds. To promote this idea, the SSTH event was organized to motivate young innovators from schools and PU colleges across the Canara region to build their ideas into dreams. Be with Engineering provided a platform for the students to build prototypes of their ideas. The students were given mentorship from engineering students and resources, tools, and machinery from launch pads at Sahyadri to build their projects. The event also became an experience where students could understand that engineering is a platform where a person acquires the ability to be a problem solver. The two-day event witnessed 150+ students within the Sahyadri campus.

In the span of two days, the participants were allowed to become familiar with the campus and were given the opportunity to interact and work at the launchpads, start-ups, and industries and explore all the resources that the college offers to engineer students. By the end of this two-day stay on the Campus, students should be able to present a different perspective of engineering altogether and build their projects under the guidance of students at Sahyadri. The goal of this effort is to completely alter the way that young people in India view engineering.

Students from different schools and PU colleges came together, shared their knowledge, and helped each other in completing their projects. They tackled the problems that they were about to solve in the way that engineers did. As the engineering students mentored the participants and helped them build their projects, it was both fun and learning. The event was also a platform for the engineering students to realize a teacher within and peer learning while nurturing the budding innovators.

SSTH 2K22 Be With Engineer, held on November 24, and 25, 2022. The program was inaugurated in the presence of chief guest Mr.Achal Krishna, Co-Founder & CEO of Smartcache Networks Pvt Ltd; Dr. Rajesha S, Principal - Sahyadri College of Engineering and Management, DR. Manjappa. S, Director of R&D - Sahyadri College of Engineering and Management, Ms.Pranamya A Y, Project Co-ordinator - SSTH 2K22, Faculty members, Teachers, and Participants.

A startup Talk was arranged for the students with Mr.Achal Krishna. He explained why Identifying the problem around us is very important. He shared his experience on how his Startup Idea originated. Encouraged the students to practice and follow the Design Thinking process to acquire the best solutions for the problems that they find. Also, he shed some light on the future scope of Startups.

Grand Finale
of the Sahyadri Science Talent Hunt

SSTH 2K22, held on November 26, 2022, with a mission to promote innovation and entrepreneurship in the Canara region. The grand finale began with the lighting of the lamp in the presence of Mr. B E Rangaswamy, Registrar Evaluation - Visvesvaraya Technological University, Belagavi; Mr. Sushil Mungekar, Founder & CEO - ENpower; Mr. Prathvi Sai Penumadu, Atal Innovation Mission(ATM)-NITI Ayog; Mr. Mukesh S, Program Manager, Beyond Bengaluru - Karnataka Digital Economy Mission(KDEM); Mrs. Rajashree Devineni, Marketing manager - Ministry of electronics and information technology, MeitY Startup Hub; Dr. Vijaya Kumar B P, Professor, Information Science and Engineering, IEEE CIS Advisor to Chair, Bangalore Section - M S Ramaiah Institute of Technology; and Mr.Shreekant K. Ambekar, Ex-Principal - KLS VPP; Dr. Manjappa. S, Director, R&D Dept - Sahyadri College of Engineering and Management; Dr. Rajesha S, Principal - Sahyadri College of Engineering and Management; and Ms. Pranamya A Y, Project Co-ordinator - SSTH and all the Faculties, Students and Participants gathered.

A panel Discussion was organized where the students interacted with the guests. Mr. Johnson Tellis, Co-Founder, and CEO - InUnity; moderated the session for a panel of experts. He always Empowers youth through Community Centric Education. In the panel discussion, Mrs. Rajashree Devineni Shared her experience about how was her school days as a student. She also explained why having strong Fundamental Knowledge is very important for our future growth. She encouraged all the girls to always uphold their strength and believe in their dreams. Mr. Prathvi Sai Penumadu shared his motivation for becoming a true engineer. Spoke about how building Science Projects or the Science Model is been evolved from time to time. He advised schools and colleges on how to use the Tinkering Lab and what kinds of projects to encourage students to build. Also advised schools and colleges on how to obtain intellectual property (IP) for their projects. Also suggested they should reach out to Sahyadri College of Engineering and management anytime since this institution is considered as the Center for Atal Community and Innovation Center. Mr. Sushil Mungekar shared his experience with how information is available now and was available when he was in school. He discussed the skill set that students should have and develop in order to be successful in the future. The term "responsibility" refers to the act of determining whether or not a person is responsible for his or her own actions. As a result, identifying the problem with empathy must be the most important thing in the future. Don't limit yourself to one thing; instead, think big. As an Education Transformist, he also shared his thoughts on the importance of having an entrepreneurial mindset. The panel discussion ended with a Q & session where students asked questions to the panelists.

Dr. Manjunath Bhandary addressed the gathering by sharing why the SSTH is been conducted, and with the motto of providing a platform for the students to showcase their imagination through prototypes. He mentioned that 90% of the PUC/+2 students do not have a clear picture of what they have to choose further and end up selecting engineering as their career because of many external factors. Many students focus on selecting the Institutions or the region where they want to study rather than thinking about becoming a skillful engineer. Therefore this platform will bridge the gap and help the students choose their domains carefully. Mr. B E Rangaswamy emphasized during his speech, that he is impressed by the motto of beginning SSTH 9 years back and it is still continuing. He congratulated the entire Sahyadri family for their dedication and hard work in making this event successful. He shared his desire to see India as an Intellectually Powerful country by 2047, as India celebrates its 100th Indian Independence. To achieve that value-based education is very necessary. Hence the SSTH is one such event that is trying to provide value for education. He also mentioned to achieve in life we need talent, But along with talent we also should have perseverance or a better attitude to transform what is with us into a better product or better idea to grow as better citizens.

SSTH 2K22 was a platform for students to learn from each other and share knowledge. The curtains of the event came down with the felicitation of prize winners.

Winners
of Sahyadri Science Talent Hunt

SSTH 2K22 was a platform for students to learn from each other and share knowledge. The curtains of the event came down with the felicitation of prize winners.

Region 1

LOW BUDGET SOLAR ELECTRIC MINI VEHICLE FOR AGRICULTURE

Alvas PU College
Doel Dsouza, Owais, Manvith, Arhath

POWER GENERATION BY ELECTRICITY

Sri Mahaveera PU College
Melroy Rodrigues, Yashwith, Shobith Ganiga, Samyakth shetty

MUSCLE CONTROLLED PROSTHETIC ARM

Canara PU College
Alston D'Souza

ARMY TANKER

Alvas PU College
Akshay Lamani, Atharv

REVOLUTION WAVE

Aloysius PU College
Luke Roman Noronha , Clayton Mervin Pereira
Pranavi M Amin, Lishel Vilcia Lobo

SPACE JUNK CAPTURE

Expert PU College
Chandan Vajragiri, Sumit R Kadole
Muhammad Affan, Dumba, Amruth Raj DB

COLLISION AVOIDANCE AT HAIR PIN BENDS AND
HIGHWAY ENERGY HARVESTING

Alvas PU College
Sujnan D Devadiga, Eshan K, Abhinav

TOLL EMISSION TESTING
(THE MODEL TOLL GATE)

Aloysius PU College
Neil Gibson Pinto, Vidhish R Saliyan,
Vishnu, Gayathri.G

Region 2

SMART ARECA AGRI TECH

Govt PU College, Kombettu
Ujwal U Naik, Pravith, Saiprasad Nayak M-Ujwal U Naik, Pravith, Saiprasad Nayak M

AUTOMATIC SAND SIEVING MACHINE USING SOLAR ENERGY

St Philomena PU College Puttur
Lenzil Dsouza, N.S ashwath

PROTECTIVE SHOES FOR FARMERS

Indraprastha PU College
Mahammad Muzammil

SWINGING WINGS

Excel PU College, Guruvayankere
Vandana Prakash

LI-FI IN TRANSPORTATION

Alvas PU College
Team Fusis

DIGITISED -ECO VILLAGE

Shree Ramakunjeshwara PU College
Shabeer K A, Mahammad Salim
Gagandeep Kayara G, Thejas

CASHU REMOVER

Govt PU College, Kombettu
Nikitha, Vilasini, Shreya

AUTOMATIC BOARD ERASER
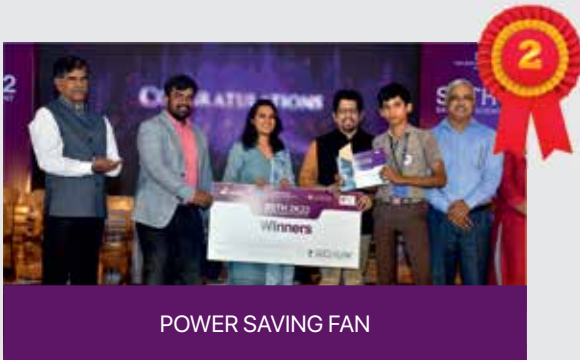
Melkar Womens PU College
Hawwa Noufa, Nafisathul Misriya
Ayishathul shifana

Region 3

MINI CNC MACHINE

Viveka P.U College Kota Udupi Dist
Anirudh, Dhanush Shetty, Vinayak

POWER SAVING FAN

S.V English medium School, Gangoli

ACCIDENT DETECTION SYSTEM

Viveka P.U College Kota Udupi Dist
Manish, Shravan Kumar

AUTOMATIC PLANT WATERING MACHINE

SV PU College Gangoli
Prajwal G. K, Dikshan Sheregar,
Amogh Devadiga, Prajwal Kothwal

SEMI AUTOMATIC SALT HARVESTER

Viveka P.U College Kota Udupi Dist
Adarsh N Poojary, Shreyas

DRONE PAINTER

Viveka P.U College Kota Udupi Dist
Sumukha, Akshaya G, Jeevan U, Vasantha

HIGH ALTITUDE SPRAYER

Viveka P.U College Kota Udupi Dist
Manvith, Sohan, Vinyas

HELP FOR FARMERS

Viveka P.U College Kota Udupi Dist
Vidwat, Rohith

Region 4

SIGNSPEAK - SIGN LANGUAGE
TRANSLATOR GLOVES

Lourdes Central School (CBSE)
Sanath Shet, Nandan Bhandary, Aahan Hegde

MODERN HONEY BEE HIVE

BRMPC Public School
Aaron D'souza

AIO-CHAIR

Prestige School [CBSE]
Muaz Ismail, Mariyam Heena
Rashad Ibrahim, Ammaar Hussain

ANIMALS VITAL MONITORING SYSTEM

Excellent School Moodbidri
Rahul, Pramukh, Anvith, Suvidh

FUEL THEFT DETECTOR

Excellent School Moodbidri
Adithya, Nishanth , Aprameya, Moulya

HYDREX

Vidyadayinee English Medium School [CBSE]
Sudhanva K B, Vineet, Aryan Raj, Samruddh.s

RTO HOTSPOT

Government High School, Elimale
Krithi, Fathima Sana, Radhika, Yashwitha

ECO FRIENDLY FOOD PRESERVER

Balavikas English Medium School, Mani
Nitesh, Nishchinta K Aithal

MULTIPURPOSE AGRICULTURAL TOOL

Balavikas English Medium School, Mani
Dakshin PV, Likesh K

PIRACY TERMINATOR

SV English Medium School, Gangoli
Siddarth Shetty, Srajan, Navaneeth,
Adithya S Poojary

ENHANCING THE SHELF LIFE OF RICE WITH THE HELP OF DRY CHILIES (CAPSICUM ANNUM)

Balavikas English Medium School, Mani
Shravya, Sanvi R

LIFESAVER ROAD SYSTEM

Balavikas English Medium School, Mani
Rishan Martis, Krithik, Shravan

SMART BRIDGE

Sri Ramakrishna High School, Puttur
B Karthikeya, Sanvik Ballal

SSTH 2K22
SAHYADRI SCIENCE TALENT HUNT

Empowering Young Minds

SAHYADRI
COLLEGE OF ENGINEERING & MANAGEMENT
An Autonomous Institution
MANGALURU

Sahyadri Campus, Adyar, Mangaluru - 575 007, Karnataka, India.