

SSTH²⁰²⁰
INNOVATION WEEK

SAHYADRI

Science Talent Hunt
**Showcasing Science & Innovation
Through Projects**

IN SEARCH
OF
GREAT MINDS



SAHYADRI
COLLEGE OF ENGINEERING & MANAGEMENT
MANGALURU
&
KARNATAKA GOVERNMENT RESEARCH CENTER
MANGALURU



SSTH²⁰²⁰

INNOVATION WEEK



The Government of India has felt the need to initiate and enhance student interest in Science & Technology. IITs and IISc began organizing Science Conclaves every year 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. 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 a 4-month long innovation event that focuses on indulging the young minds from schools and colleges in solving the problems of the community. This event shall focus on 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 science and Technology related innovation
- To create awareness on socially inclusive innovations
- To encourage a project-based learning approach amongst young minds
- To promote and inculcate innovative student ideas

GUEST PROFILE



Aakarsh Naidu

Mr. Aakarsh Naidu is the founder and CEO of The Startuppreneur, an enterprise aimed at building a comprehensive ecosystem to foster Innovation and Entrepreneurship by working with educational institutions, incubators, corporates, and government organizations. He has been in charge of Startup Ecosystem Engagement, Strategic Initiatives, and Incubation at NSRCEL at IIM Bangalore. He is also a mentor at The Founder Institute, World Resources Institute (WRI), IB Hubs, and Catalyst for Women Entrepreneurs (CWE).



Ananth Ravi

Mr. Ananth Ravi initiated the setting up of the 4G telecom project of Reliance Jio Infocomm in the State of Karnataka and was the State Sponsor until January 2018. He spearheaded mega financial closures for a wide array of businesses, ranging from Construction, Infrastructure (Shipping, Power, Ports, SEZ's) to Petroleum Refinery, Gas Transportation to Telecom. He also acquired considerable expertise in legal aspects of Project Financing. As a recognition to his contribution, the Government of Karnataka appointed him, on two occasions, as a Member of the "Vision Group of Industries" constituted under the chairmanship of Hon'ble Chief Minister of Karnataka.

SSTH CORE TEAM



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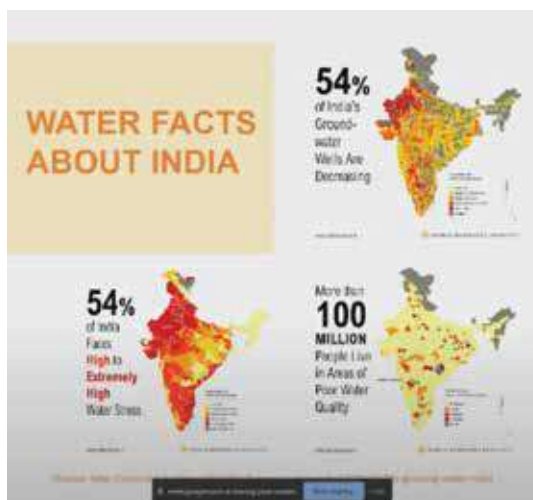
Mr. Shobith Mallya

Regional Co-ordinator

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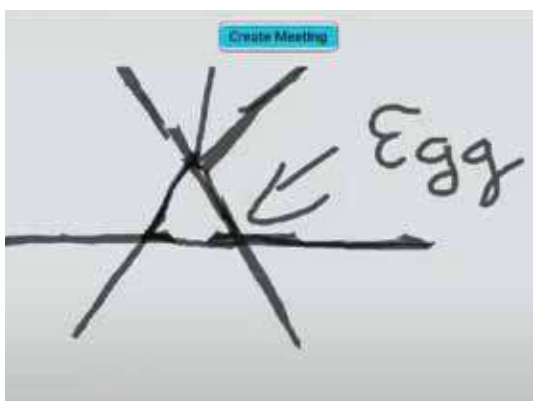
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INNOVATE FROM HOME



The Innovate from Home concept was designed with the intention of providing resources and guidance to students in order for the pandemic to not hinder their ability to solve community problems, with fun and lots of learning. The process of establishing in these young minds the idea that the journey of learning, filled with laughter and life lessons, is just as important as having a successful life. The feeling that there are no limits to dreams and that each idea is unique can be realized by providing proper guidance and resources to young minds. To promote this idea, the SSTH event was organized to motivate the young innovators from schools and PU colleges across the Canara region to build their ideas into dreams.

Students were put in a position where they could empathize with real-world problems by understanding the current scenario across various sectors, industries, and stakeholders through ideation sessions centered on the concept of Design Thinking. This not only allowed the bright minds to solve a problem but also enabled them to make an impact that could benefit the Sustainable Development Goals.



The Egg Drop Challenge, which involved gathering materials and building a landing device that, when dropped, would ensure that the egg did not crack, was designed to encourage participants to think outside the box by utilizing resources readily available to them right in their own homes. Students of various grades actively participated in coming up with creative solutions and also intrigued their interest in the ideas proposed by other peers. Similarly, the Kitchen Chemistry challenge was hosted to allow students to explore the magic of science, its possibilities, and what science can offer by using at least 5 kitchen components.

PRE-FINALE SSTH 2020

Pre-Finale of SSTH 2020, held on December 26, 2020, with a mission to promote innovation and entrepreneurship in the Canara region was a result of an eight-month program that involved workshops for 10,000 students across 200 schools on Design Thinking on various community-based problems.



Mr. Aakarsh Naidu spoke about how "today's innovators can become tomorrow's problem solvers." He went on to emphasize how important it is to acquire the necessary skills in order to be prepared for the fast-paced world. He stressed the importance of early-stage experience when it comes to landing a new job or launching a startup. Finally, he highlighted the role of developing an entrepreneurial mindset in students in order to shape them into problem solvers of the future.



The grand finale began in the presence of Mr. Aakarsh Naidu, Founder, and CEO of The Startuppreneur, Mr. Ananth Ravi, Head of the Advisory Board at Ozone Group, and Dr. Rajesha S, Principal Sahyadri College of Engineering and Management. SSTH 2020 was a platform for students to learn from each other and share knowledge.

Dr. Rajesha S welcomed the gathering, emphasizing how the youth, as the nation's future, should be involved in solving the country's problems. With Sahyadri College of Engineering and Management serving as an ecosystem where academic and skill-based learning are equally valued, the Principal also discussed the importance of developing students' interests in science and technology through events such as SSTH.



Mr. Ananth Ravi discussed his experiences and learnings while working at Reliance Jio Infocomm, as well as how his decisions impacted the establishment of 4G infrastructure in Karnataka. He mentioned why an entrepreneur cannot make bad decisions and how parents of budding entrepreneurs should have absolute confidence in their children because their abilities are boundless.

SSTH 2020 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

HIGH SCHOOL DIVISION

First Place

School

St. Theresa's School, Bendur, Mangaluru

Idea

Walkaroo Wall

Team Members

- Hansel Charles Roche
- Luke Roman Noronha
- Jaden Clarence Fernandes
- Ankit Cherian Deepak



Second Place



School

Government Pre University College
(High school section) Kombettu, Puttur,
Dakshina Kannada

Idea

Novel plant-based stain for hands-on training in Life Sciences

Team Members

Abhilasha Dhota

WINNERS

HIGH SCHOOL DIVISION

Third Place

School

St. Theresa's School,
Bendur, Mangaluru

Idea

Penta Ocean Savior

Team Members

Prathik Naveen

Consolation Prize

School

Canara High School
C.B.S.E, Mangaluru

Idea

Atmowater –
"Water out of nowhere"

Team Members

K. Nishanth Kamath

Consolation Prize

School

Canara High School,
Urva, Mangaluru

Idea

Carbon Footprint
Labelling for Responsible
Consumption

Team Members

Anagha Raghunandan

WINNERS

PRE-UNIVERSITY DIVISION

First Place

School

Expert Pre-University College, Magaluru

Idea

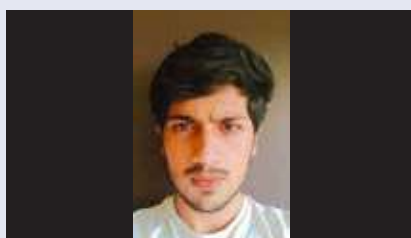
SRISHTI - A Novel Seeder for Systematic Cultivation

Team Members

Rakeshkrishna K



Second Place



School

St Aloysius PU College, Mangaluru

Idea

Future with floating fields

Team Members

- Carol D'cunha
- Zeliq Zayyan
- Ronith Tharun Joshi

WINNERS

PRE-UNIVERSITY DIVISION

Third Place

School

Ambika vidyalaya
Nellikatte, Puttur
Dakshina Kannada

Idea

Finding an alternative
plastic

Team Members

Nishan Kumar

Consolation Prize

School

Govinda dasa
PU College

Idea

Analytical modelling and
solutions to marine
complications

Team Members

Nihal Shetty

Consolation Prize

School

KPT, Mangalore

Idea

Dual socket e-bike Battery
charging for fast charging

Team Members

SV Prasad

Top 50 Candidates

Shortlisted Ideas - Pitch deck links

Token Id	Idea Name	Team Members	School/College name
20SP406	WeServe	Aditya Dinesh, Nischith GP, Shashank	Vivekananda PU College Puttur
20SP323	Circuit firefighter	Anusha Jane Pais, Nameeksha	GPUC Kombettu Puttur
20SP372	Solar Illuminator	Saanvi Konde	Expert PU College
20SP311	Career path decision support system	Moksha V S	St. Aloysius PU College
20SP305	Use of Rain Drop Sensor in Agricultural Field	Bhuvan V S, Kiran, Pranay, Pradhan	SDM PU College, Ujire
20SP339	Modern Science	Gautham Shetty	Rotary Pre-University Moodbidri
20SP307	Project Multipurpose	Nihaal Y K	St. Aloysius PU College
20SP310	AVS Detector	Akash,Vinith, Shravan Kumar Shetty, Anujith R Shetty	St. Aloysius PU College
20SP347	Solar Power Carsor Hybrid cars subsidy	Abhay Kamath	Expert PU College, Valachil
20SP378	Compressed Air Engine	Shreelakshmi	Ambika PU
20SP308	Water Waste Picker	Jayarama Pd, Bhat Srivinayak, Manish R Rao, P Rohith R Nayak	Poorna Prajna Pre University College, Udupi
20SP314	Reliable and modern energy	Shreesha S shetty, Prajwal Madival, Seema N Poojary, Roja Poojary	RN Shetty PU College Kundapura

Top 50 Candidates

Shortlisted Ideas - Pitch deck links

Token Id	Idea Name	Team Members	School/College name
20SP333	Creating working model whose main theme will be to Solve the problem faced during responsible production & consumption	NUZLA (milagres p u college), SADIYA, ADIBA MEHAK, HANIYA	Salihath PC College, Hoode Udupi
20SP343	Waste Management	Ayeshath Al Umera, Christy John Daniel, Kushi K, Vismaya K R	Brigade PU College
20SP337	THIS-ABLED	Zeliq Zayyan	St. Aloysius PU College
20SP384	Pestotron	Rohan Jeethan, Anagha, Erisha, Suman	SDM PU College, Ujire
20SP409	Sharing food from have to have nots.	Raghavendrakumar Chandrashekhara Honnali	Expert PU College, Valachil
20SP303	ELECTRICAL GAS ENERGY	Shreesha, Sumedh S Bhat	Poorna Prajna Pre University College, Udupi
20SP312	Compost from parthenium hestrophorus plant	Anusha, L H Ujwal	Brigade PU College
20SP353	Safety traffic system	Rakshith D, Harshitha Toppo, Ashil A Shetty	Canara PU College Mangalore
20SP302	Hungerless India	Mahammad Dhanish, B Divith U Rai, Chaithanya K, Sinchana B R	St Philomena Pre-University College
20SP352	Project - ZOI [Life]	Ronith Tharun Joshi, Zeliq Zayyan	St. Aloysius PU College
20SP316	Automatic grass cutter	Praveeth, Shreyas Rai KP	GPUC Kombettu Puttur

Top 50 Candidates

Shortlisted Ideas - Pitch deck links

Token Id	Idea Name	Team Members	School/College name
20SP328	Accident prevention project	Rahul, Ranjith Kumar, Sharanya Samruddi	RN Shetty PU College Kundapura
20SP392	'PLASTINK' - A novel idea to make ink from plastic	R Sharun	Dr N.S.A.M PU college, Nanthoor
20SP315	Smart Air Quality Monitoring System	Suhas L Karinja, Ganesh Nayak, Girish	Sharadha PU College
20SH105	Sleep Well to Repel Mosquitoes	Roy Vince Saldanha, Rishon Walder	St. Theresa's School, Bendur, Mangaluru
20SH103	Sustainable Cities and Communities (public Governing)	K M Sneha, Jeevika Jeethendra, Nidhi I Karkera	Sharadha PU College
20SH181	Women's safety using an app or a device	Neelima Bhaktha	Vishwamangala English Medium High School
20SH129	Say no to plastic	Bhoomi Deepak	KLE Society's School Nagarbhavi
20SH140	Life under water	Sayyed Abin	Holy Spirit School
20SH130	Study of level of impurity in payaswini river in Sullia thaluk and it's remedial measures.	Jeevitha M, Chameeksha P.L., Bindushree P. D., Thrupthi	Government Pre-University College, Sullia (high school section)
20SH126	Covid 19 Face mask and Temperature Detector	Sanath Sanjay Shet, M Nandan Bhandary, Rishon Fernandes	Lourdes Central School
20SH154	Haptic Vision	Aban Hasan, Sai Pranav Kishan, Nayan Bangera, Achintya Aravind Rai	St. Theresa's School
20SH101	Mini refrigerator	Mohammed Habeeb	St Theresa's School

Top 50 Candidates

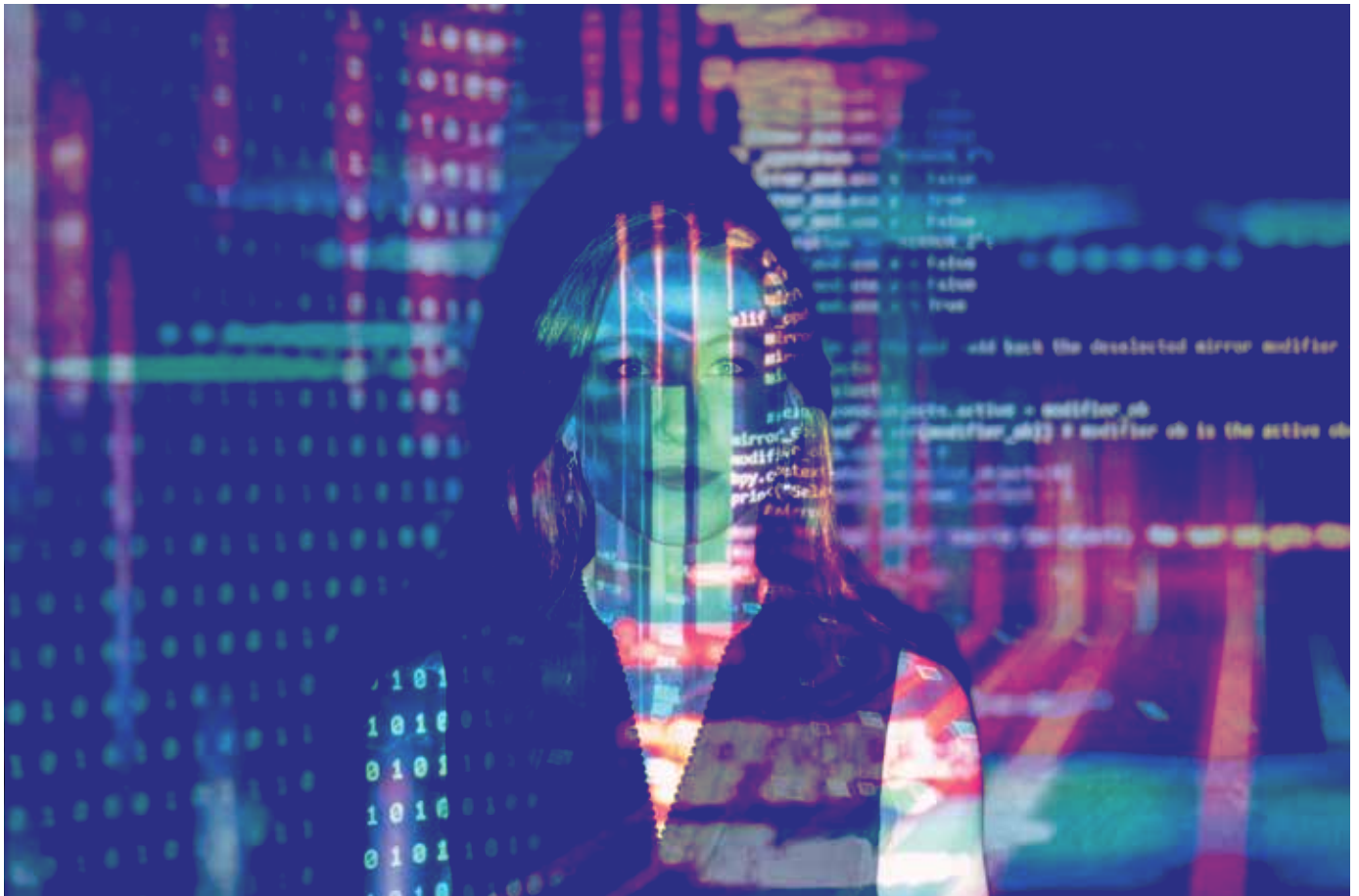
Shortlisted Ideas - Pitch deck links

Token Id	Idea Name	Team Members	School/College name
20SH139	Sustainable Cities and Communities (public Governing)	Jeevika Jeethendra, K.M. Sneha, Nidhi L. Karkera	Sharada Vidyalaya
20SH136	Carbon Footprint Labelling for Responsible Consumption	Anagha Raghunandan	Canara High School, Urva
20SH121	Reduce Overfishing	Alston Dsouza	Vidyadaynee English Medium School (CBSE)
20SH142	Rain Energy	Aashish S Shet	Canara High School, Urva
20SH132	Mission Swatch Sagar	Mohammed Sharief, Saad, Manish, Atherv	Delhi Public School
20SH107	Walkaroo Wall	Hansel Charles Roche, Luke Roman Noronha, Jaden Clarence Fernandes, Ankit Cherian Deepak	St. Theresa's School
20SH176	Novel plant based stain for hands-on training in Life Sciences	Abhilasha Dhota	GPUC, Kombettu, Puttur (high school section)
20SH108	Penta ocean saviour	Prathik Naveen	St. Theresa's School
20SH167	Atmowater – "Water out of nowhere"	K. Nishanth Kamath	Canara CBSE
20SH136	Carbon Footprint Labelling for Responsible Consumption	Anagha Raghunandan	Canara High School, Urva
20SP366	SRISHTI – A Novel Seeder for Systematic Cultivation	Rakeshkrishna K	Expert PU College, Valachil
20SP355	Future with floating fields	Carol D'cunha, Zeliq Zayyan, Ronith Tharun Joshi	St. Aloysius PU College

Top 50 Candidates

Shortlisted Ideas - Pitch deck links

Token Id	Idea Name	Team Members	School/College name
20SP383	Finding an alternative plastic	Nishan kumar	Ambika Vidyalaya Nellikatte Puttur DK
20SP403	Analytical modelling and solutions to marine complications	Nihal Shetty	Govinda dasa PU College
20SP306	Dual socket ebike Battery charging for fast charging	SV Prasad	Karnataka Government Polytechnic Mangalore



Testimonials

So life during lockdown was a lot clumsy and apart from my daily chores, I hardly had any work to do. Even hogging on social media didn't do any better for me, and that's when I received an invitation from Sahyadri. I was already a participant of SSTH 2019, hence the invitation had a different meaning for me. It helped me reminisce about my past and the days I spent building the project. Even Though my teammate from high school went to a different college and we had no way of forming up the same team. It didn't discourage me at all, as I felt I have now found a way to make some productive use of my time and improve my rustic skills which had deteriorated during this whole time. SSTH opened up a different domain for me to explore. I am glad I participated in this tournament. I am thankful for the opportunity provided to me in the form of training sessions, activities, and many more. The most exciting part was obviously the results and I had the same result i.e consolation in both the years that I participated. But I was already satisfied with the experience I had and the dream kit which was really awesome. The mentors and guides from the SSTH team were a lot helpful. THANK YOU SSTH 2020.

Nihal Shetty

Govinda dasa PU College
Secured Consolation Prize

I have been participating in SSTH since I was in 8th standard and it has always been my dream to win in SSTH. And fortunately, I have secured the top 10 in SSTH 2020. For me, SSTH is far more different than any other science competition because while I enter the campus of Sahyadri College I don't feel like I have entered a competition or anything like that I feel I have entered into a wonderful learning experience with all the other participants. On SSTH 2019 there was a 3-day stay and it was one of the best experiences of my life and I would like to thank everyone for choosing me and making me one of the finalists of SSTH 2020. Unfortunately due to corona, I was not able to visit Sahyadri this time but still, I am really happy for participating in this wonderful competition. Thank you very much.

Nishan Kumar

Ambica Vidyalaya, Nellikatte, Puttur
Secured 3rd place

SAHYADRI

COLLEGE OF ENGINEERING & MANAGEMENT

Sahyadri College of Engineering & Management

Located within the city limits of Mangaluru, a popular education hub, Sahyadri College of Engineering & Management is a serene campus, offering undergraduate and postgraduate programs in Engineering along with MBA and Doctorate degrees. Established in 2007, the institute has created a niche in the higher education sector. The College is affiliated to Visvesvaraya Technological University, Belgaum and is approved by the Government of Karnataka,

All India Council of Technical Education – AICTE, New Delhi, Ministry of HRD, Govt. of India. It has been Accredited “A” Grade by the National Assessment and Accreditation Committee (NAAC). To a great extent, the success of the College must be credited to the excellent academic results year after year. The College is unique and is one among the few who can take pride in having a dedicated department for researching, analyzing and developing effective methods of imparting quality education.

UNDER GRADUATE COURSES

Bachelor of Engineering - BE

- Computer Science & Engineering
- Computer Science & Engineering (AI & Machine Learning)
- Computer Science & Engineering (Data Science)
- Computer Science & Engineering (Cyber Security)
- Information Science & Engineering
- Electronics & Communications Engineering
- Mechanical Engineering
- Artificial Intelligence, Machine Learning & Data Science
- Robotics & Automation

POSTGRADUATE COURSES

Master of Business Administration - MBA

- Finance
- Marketing
- Human Resource

RESEARCH

M.Sc. Engineering by Research & Ph.D.

- | | |
|--------------------------|---------------------------|
| • Civil Engineering | • Business Administration |
| • Computer Science | • Chemistry |
| • Mechanical Engineering | • Physics |

The College campus is aesthetically constructed, in the courtyard style. Courtyards provide open-to-sky in the middle, spacious class rooms with good ventilation even on the ground floor. All the spaces of the college remain well-lighted with natural light, not depending upon any artificial lights during daytime. Well-equipped laboratories, spacious library, seminar halls, and auditorium with all modern acoustic facilities, Food court & cafeteria and well developed sports facility indoor & outdoor gym are provided in the campus. Sahyadri has started an Entrepreneurship Cell to ignite the creative thinking of students towards innovation and thereby mentor them to become successful entrepreneurs by providing the right entrepreneurial ecosystem. Sahyadri is well complemented by the state-of-the-art infrastructure and modern facilities like Govt. Research Center, Incubation, Placement & Training Center, Mech-Tech Garage, Sahyadri Center for Social Innovation which includes Hands-on Experience Lab, Life Science Lab, Innovation Lab, and Product Design Lab

RECORD PLACEMENTS @ SAHYADRI

**105
SELECTS IN
CAPGEMINI**

**1 SELECTS IN
EUROFINS
22.42 LPA**

Department of Placement

Placement Department is highly dynamic and has been efficient in placing students into profiles of their choice. The Placement Department is headed by Dean-Placement and ably supported by Assistant Placement Officers, Staff and Student Coordinators.

More than 170 companies visit the campus every year for recruitment. Over 3000 Students from various colleges have been placed at our campus pool drive.

Some of the highest packages offered are:

- Cohesity - 22.42 LPA
- Eurofins - 9.5 LPA
- SAP - 8 LPA
- Accolite - 5-8 LPA
- Riktam Technologies - 5 LPA
- Novigo Solutions - 3.6-5 LPA
- Gain Insights - 4.5-6 LPA
- Galaxe - 4.5 LPA
- Capgemini - 3.8 LPA
- Wipro - 3.5 LPA

- Aptitude, Soft skills, Value-added courses and Training: Sahyadri has in-house skilled training professionals regularly conducting a host of value enhancement training programs for students.
- Internship Programme: Students undergo internship and summer vocational training in companies like Mahindra & Mahindra, MRPL, MCF and others
- Industry interaction: The department organizes Industry interactions on a weekly basis to groom the students for the corporate world.





PROUD TO BE SAHYADRIYANS

2 SELECTS IN
EUROFINS
9.5 LPA

1 SELECTS IN
ACCOLITE
5 LPA

Premium companies visit Sahyadri



Some of the highest packages offered are:

- 600 computers for online test
- 270 computers for Aptitude lab
- Auditorium with a capacity of seating 800 students
- The resource to conduct written test for 1000 candidates at one sitting
- 4,000 candidates can be tested in one single day
- Wireless Internet across the campus with BSNL 500 Mbps leased line
- LCD, Computer and Technicians for Pre-Placement Talk (PPT)
- Separate rooms for written tests, group discussions and interviews.

ISO Certification



Accreditation from the IAO (International Accreditation Organisation)
The institution is awarded with ISO 9001-2008 certificate,
from TUV Nord, Germany



Sahyadri Science Talent Hunt - SSTH is an initiative of the young creative minds in line with 'Startup India' Mission. It is an eight-month program that involves workshops for **10,000** students across **200** schools on Design Thinking on various community-based problems. The program receives over **400** solutions from over **1200** students, out of which **40** ideas are selected with a mission to convert them into products and startups.

SSTH 2020 is the **6th** edition with a mission of promoting innovation and entrepreneurship in the Kanara region. The event encourages community-based problem solving by inspiring, mentoring and nurturing social innovations. This initiative is completely supported and funded by Sahyadri College of Engineering & Management.



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SAHYADRI
COLLEGE OF ENGINEERING & MANAGEMENT

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