



Dayananda Sagar  
University **Bengaluru**

Department of Computer Science & Technology  
**Bi-Annual Newsletter**

*CST*

- TECHNOPHILIA -

2022-2023

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Issue No: 02

# ABOUT THE DEPARTMENT

The philosophy to integrate business and Computing Skills equips one to become the driving force in creating, innovative applications of Technology. Competencies in critical thinking, problem exploration, and problem solving with a focus on hands-on 'Project based learning' to acquire innovative intrapreneurial/technology entrepreneurial skills.

The curriculum equips (Industry driven and flexible) students to deliver new ideas quickly by focusing on Working collaboratively in small teams with the enterprise community to deliver intelligent applications that will run and scale efficiently. Improved curriculum to provide dual path & NEP-2020 Eminent faculty with a rich mix of Academic and Industry exposure.

Programme is best suited for placement offer (or) pursue higher education and setup a start-up. Fostering Entrepreneurship with AIC-DSU incubation center and DERBI. SCHOOL OF ENGINEERING, DAYANANDA SAGAR UNIVERSITY SoE

Introducing new topics, changing the flavor of the existing courses to bring in novelty. Startup Investor Pitch Deck Methodology, Quantum Computing, High Technology Entrepreneurship Newer teaching pedagogy to be practiced for both online and offline. Novel assessment methods Idea generation and innovation activities which will lead to POC and Product development.

Mentoring students to face competitive startup

## Best Practice - 1: Entrepreneurship in practice

### Objectives:

Bring out the entrepreneurship skills by practice  
Encourage and support in building a startup  
Provide knowledge and resources for hands on experience

## Best Practice - 2: Technology Research

### Objectives:

Cultivate and motivate to strengthen and upgrade creative and innovative research paper writing skill in students and faculties to Identify and Select the innovative research culture in the department.

## UNIQUE STRUCTURE

**CST = CSE (~48%) + TECHNOLOGY FRAMEWORKS (~30%) + ENTREPRENEURSHIP (~22%)**

## Vision

**To create the most favorable technology ecosystem for quality academic and research-oriented undergraduate education in computing sciences and train the students for a globalized technological world by leading them across dual-career paths to serve the society**

## Mission

**To advance the frontiers of technology start-ups and offer students a dual-career path for fostering collaborative and multi-disciplinary practices.**



# Dean Message

I am delighted that the Department of **Computer Science & Technology** is bringing out a newsletter that can provide beautiful insights for students and faculty fraternity. A lot has been happening in the school of Computer Science & Technology over the years, and one of the significant changes involves this newsletter. Our graduate students are doing amazing things in many different areas. In the current issue, you'll meet some remarkable students and faculty who are making a difference in the technical aspects and otherwise. We hope to build this endowment with your support, to afford even more opportunities for students to participate in this important component of their graduate education.

I hope this magazine provides the reader with wonderful insight and I thank the editorial team for their wonderful effort in bringing out this newsletter.

Wish you all the best

**Dr. Udaya Kumar Reddy K R**  
Dean - School of Engineering  
Dayananda Sagar University



# Chairperson Message

Dear Readers,

Greetings from **Computer Science & Technology** It gives great pleasure to note that the Department of Computer Science & Technology is releasing the first publication of bi-annual newsletter for academic year 2021-22 Even semester enumerating the various activities and achievements of our faculty and students. The department endeavours to produce confident professionals tuned to a real time working environment. The department offers an excellent academic environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and inculcate the spirit of team work in them. Department works for overall growth of students and inculcates the qualities/features that are required and acceptable by Society. Faculty/Students take initiative for social causes at individual level and as a team under different Banners/Clubs of the Institute. The Department consists of well qualified professionals with extensive experience and specialization in different subjects. We look forward to enable students to challenge themselves and discover their interests in producing considerable solution to meet challenges. Thanks for visiting us. BEST WISHES !

Happy Reading!!

**Dr M Shahina Parveen**  
Professor and Chairperson  
Dayananda Sagar University



## "Visit to ABAI -AVGC CoE"



Dr. Shahina Parveen, Chairperson CST, and Prof. Bhaskar Venugopalan faculty of Department of CST at Dayananda Sagar University visited the ABAI-AVGA on 31st October 2022. (Date / Time – Monday 31 Oct 2022, 10.30 am). The webinar started with the introduction of the The **ABAI AVGC Centre of Excellence (CEO)** has state-of-the-art facilities that will give the Creative Production a holistic technological boost. The Coe has the most highly equipped AVGC Post- production infrastructure, providing the audio-visual industry with talent and tools to produce high quality content that was hitherto not possible to automate – ABAI – AVGC Centre of Excellence, Nalapad Brigade Centre//Ground Floor, Whitefield Main Road/Mahadevapura Post, Garudachapalya, Bengaluru 560 048. (Land Mark Near Brigade Metropolis)



The CoE has a Digital Production and Post-production lab with technologies such as motion capture, body Scan, **2D and 3D Animation**, Green Screen and high-speed rendering, which is available on an affordable pay-per-use basis. AVGC partner us across the value are engaged in the business of conception, production, post-production, media and intellectual property rights, publishing and marketing of animation, Visual effects, special effects, editing, digital gaming, including mobile console-desktop games and comics content.



# "Developing a Jugaad Mindset"



The Department of Computer Science Technology successfully conducted the Student Development Program "Developing a Jugaad Mindset" held on 19-Oct -2022 in association with ICFAI Business school, Bangalore.

Students were encouraged to take a free IBSAT National Level MOCK aptitude test for management aspirants. All students received E-certificates of participation Prof. **Baskar Venugopalan, Professor, CST**, and Prof. **Ramandeep Kaur, Assistant Professors** organized this event successfully. Around 46 CST students attended this seminar. This seminar helped students to think out-of-the-box ideas and gave them decision-making skills in their professional/personal life. Students have given very good feedback for this event.

Bright  
ideas





# "Visit to SAP Experience Day"



Dr. M Shahina Parveen, Chairperson CST was invited to SAP Experience Day on October 19, Wednesday at their headquarters in Bangalore.

**SAP has been actively engaging with our institution** over the last many years. They would now like to take his relationship a step further with SAP Experience Day where they wanted to offer us an insider's view on the emerging technologies and the related impact opportunities'.



# Global Investor Meet

We SoE DSU had planned three-day **Global Investor Meet - Invest Karnataka 2022 at Bangalore Palace grounds** Hosted by Karnataka from 2nd- 4th November 2022 at Bangalore Palace, under the theme "Build for the World". Global Investor Meet brings together leaders with more than 75 years combined experience in the startup, healthcare and life sciences industry with a shared passion, creating disruptive products and services.

The planned objectives of the visit are:

- \* Learning about solving industry business problems
- \* Understand how the journey as an entrepreneur(s) started and Roadmap planned.
- \* Understand about the measures taken to maintain data security.
- \* Understand the whitespaces and how as an entrepreneur can target the same.





# Global Investor Meet



Narendra Modi

Hon'ble Prime Minister of India



Basavaraj S. Bommai

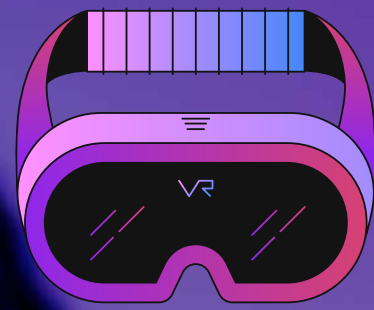
Hon'ble Chief Minister of  
Karnataka  
Govt. of Karnataka



ಜಾಗತಿಕ ಹೂಡಿಕೆದಾರರ ಸಮಾವೇಶ



# Brainstorming Session on Animation & Comic- CoE



The Department of Computer Science & Technology organized a Brainstorming Session on Animation & Comic- CoE on 24th November 2022, in association with the AVGC Centre of Excellence. We have invited eminent resource persons for this session. **Miss. Shiji Sunil, Centre Head, ABAI - Centre of Excellence** has more than 22 years of experience in the industry. She is one of the pioneers to start training and production in the AVGC sector. She is known for her vision in defining her position in the Animation & VFX industry. She heads the Centre of Excellence run by ABAI, a non-profit organization supported by the Karnataka Government and the ITBT sector also Worked with Yesh Raj Studios, Red chilies, Vfxwala, and other production companies in Mumbai to execute VFX work from almost more than 20+ movies. Proud to be a studio that worked for movies Bahubali and international movies like Thor and avengers. Recently worked on the movie VIKRAM using Motion Capture and Photogrammetry.





# Brainstorming Session on Animation & Comic- CoE

**The objectives of this session were:**

- 1.Awareness of AVGC Centre of Excellence digital production with technologies such as motion capture, body scan, and 2D and 3D animation.**
- 2.To gain hands-on experience, production & technology tools.**
- 3.Enabling skill development, start-ups, connecting MSMEs, developing the B2B market, and creating a network effect for the ecosystem.**

**Dr. M Shahina Parveen, Chairperson CST, and Prof. Ramandeep Kaur, Assistant Professor, CST organized this session.**

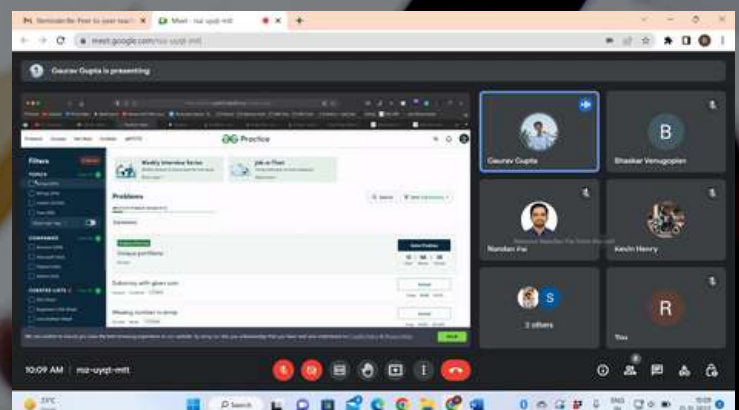
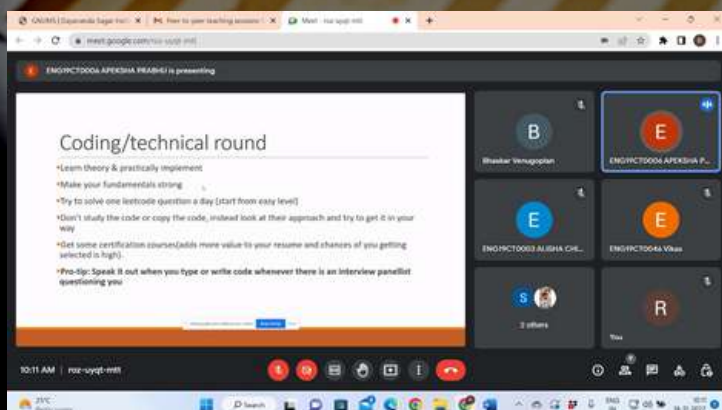
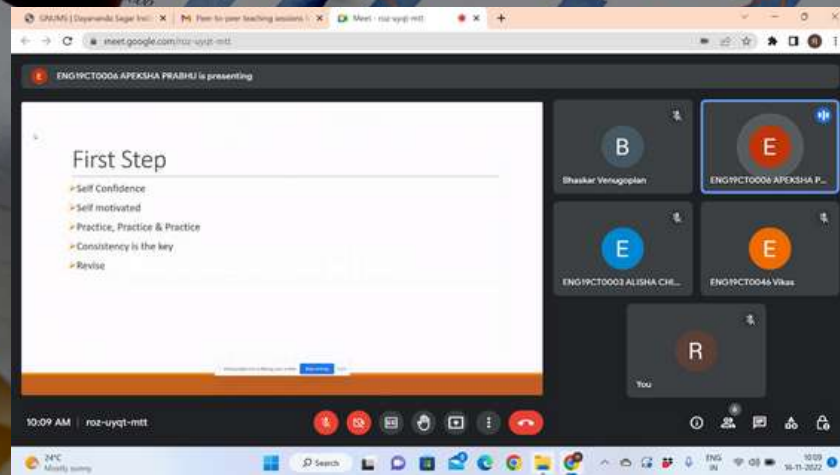
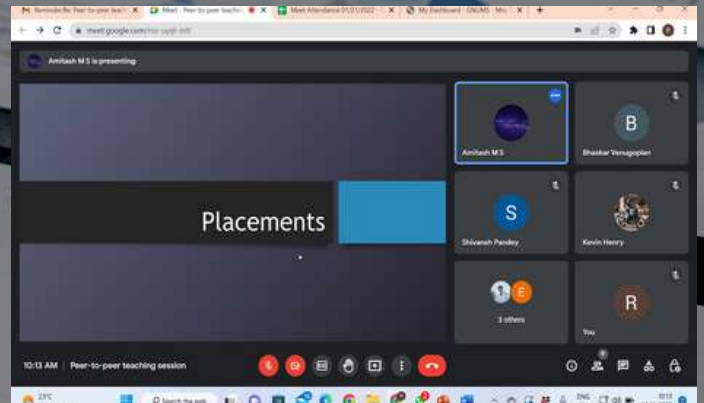
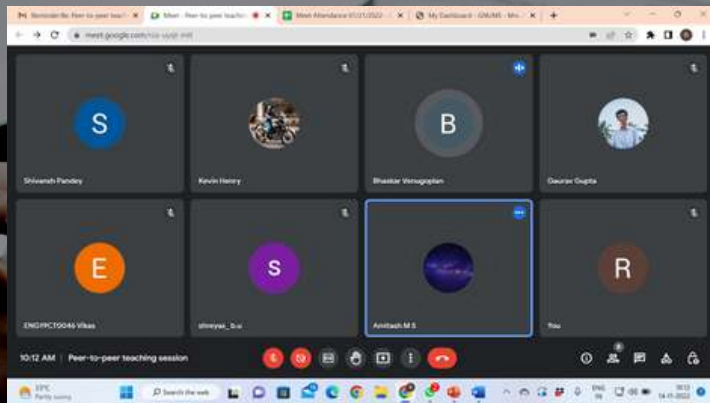


# PEER-TO-PEER TEACHING FOR UNPLACED STUDENTS



Peer-to-peer teaching sessions for Unplaced students.

The department of **Computer Science & Technology** scheduled **Peer to Peer** sessions for the **non-placed students by the Placed students**. Placed students shared their strategies and experience so that others will get some tricks and plan in a better way. Each session had a discussion of strategy for 30 minutes followed by answering the queries for 15 minutes.





# Industrial Visit - ABAI- AVGC Center of Excellence

*The Department of Computer Science and Technology (SOE) of Dayananda Sagar University conducted an industrial visit for the students of the Third Semester to the ABAI- AVGC Center of Excellence. The event, which took place on 29th December 2022 brought to light the immense scope of the global AVGC industry and the various facilities the ABAI Center of Excellence provides. 43 third sem CST students went for this visit and they were asked to write reflection notes on the same.*



**EXCELLENCE**  
To spear head the next technological revolution in India  
[www.coe.avgc.in](http://www.coe.avgc.in)



# Industrial Visit - ABAI- AVGC Center of Excellence

*The main objective of this event is to give real-time exposure to the industry and*

- *To provide the students an insight into the internal working of the AVGC Centre of Excellence.*
- *Tools and software exposure on AR/VR, Cinematography.*
- ***Understand how the journey as an entrepreneur(s) started and Roadmap planned.***
- *Enabling skill development, start-ups, connecting MSMEs, developing the B2B market, and creating a network effect for the ecosystem in order to have a better appreciation of the practical applications of theory.*





# Career Labs Session

AICTE-career labs a session on successful career planning, higher education & technical profile building by career labs was organized on 7th of December 2022 for the 5th sem students of CST department. Over 30 students participated and gained information regarding preparation on the career needs.

Career Labs is the go-to destination for all your career needs, whether you are a student or a professional. They have a proven track record when it comes to enabling young individuals craft the careers.

They offer a wide array of preparatory programs, modules, bootcamps & cohorts for students prepping up for both national & international level entrance examinations. Also, they specialise in providing elite admission consulting services for students seeking to enroll for graduate & business schools, both in India and abroad.



# Value added course on “Git and Git Hub 101”



The Department of Computer Science & Technology conducted a value-added course “Git and Git Hub 101” for CST students (4 th and 6 th semester). This course was conducted for 30 Hours from 21- 7-2022 to 27-07-2022 on GIT and GIT Hub in Online mode. **The main objective of the course is “Git GitHub” 101 includes Understanding Version Control, Diff / Patch, Git as the local repo, GitHub as the remote repo, and Collaborative development including CI / CD / DevOps & Workflow / Actions. Prof Baskar Venugopalan, Professor, CST was the resource person for this course.**

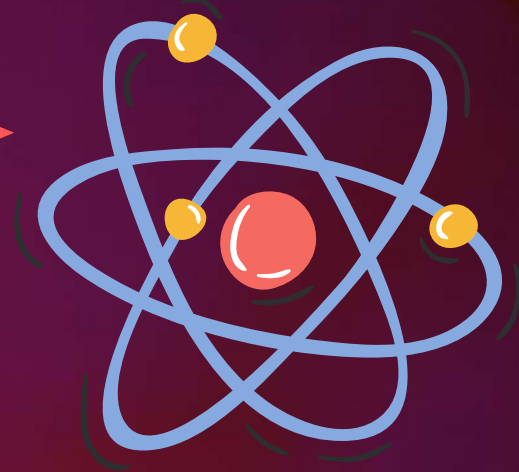


Through this course, students gained knowledge on how to keep track of the different versions of their code and configuration files using a popular version control system (VCS) called Git. The resource person also talked about how to set up an account with a service called GitHub so that student(s) can create their very own respective remote repositories to store their code and configuration. This course also helps students in their career path by having GitHub credentials as part of their profile which is definitely one of the industry expectations and thus will be a value add.

After the course completion, we also conducted the mini hackathon where students had to submit a mini project leveraging git & GitHub features (max possible) with a minimum of one Action - Workflow. All mini projects were stored in the DSU repo. The repo received the course completion certificate and the top four reports were suitably rewarded. All the participants received participation certificates. **Prof. Swetha Patil, Assistant Professor was the coordinator for organizing this course.**



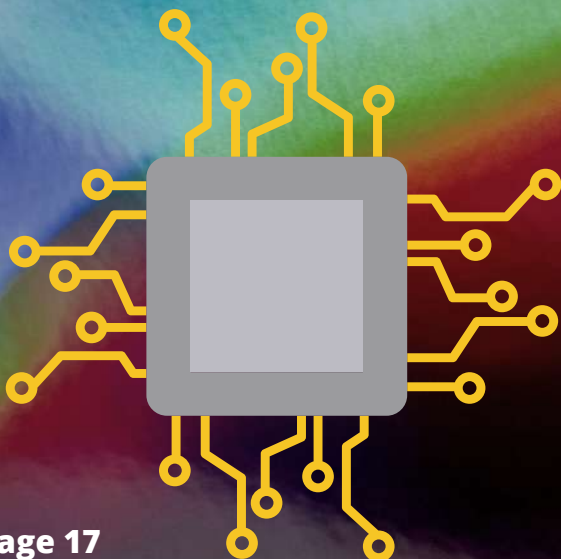
# Webinar on “Career Success & Technology Trends”



The Department of Computer Science & Technology organized a “Career Success & Technology Trends” event for CST students on 18th July 2022. This event started with the introduction of the keynote speakers Dr. M Shahina Parveen, Professor and Chairman CST, and Prof. Baskar Venugopalan. The first half of the event was regarding Career Counselling, Dr. M Shahina Parveen started her address with career counselling for engineers, and engineering as a career. The importance of engineering and goal in life was discussed. She showed a path from where to get the start for achieving the goal. Start-ups and big corporate opportunities were discussed. She explained how to build a career and motivated students to prepare for Gate and other higher education exams.

The second half of the event was addressed by Prof. Baskar Venugopalan regarding Trends in Technology. He started the address with skills and trends for 2022. He explained the programming languages, low-code platforms, UI/UX design, data engineering, data visualization, video editing, CRMS, and product management. He also explained blockchain, programming, cloud computing, content marketing, big data, artificial intelligence, and Internet of Things career paths and what their requirements are. He ended his talk with an explanation of the top 10 skills of 2025 that each and every student should be aware of.

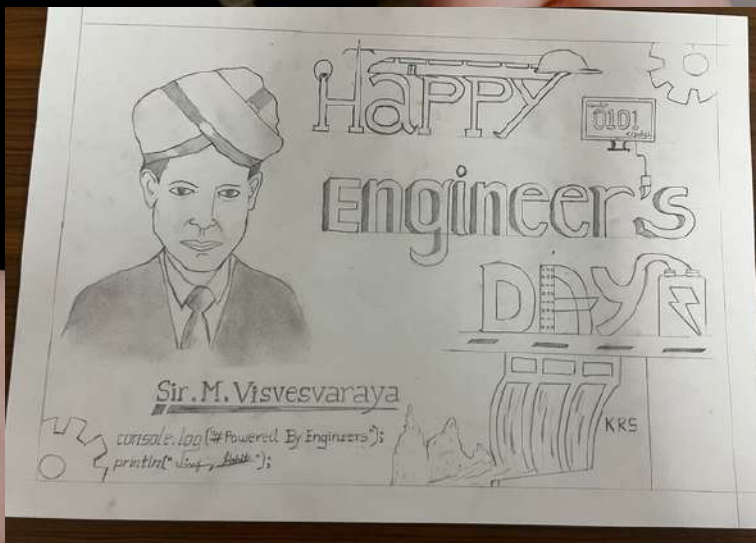
A total of 30 students registered for the event and 26 attended. The feedback collected from students shows excellent ratings and they demanded the conduction of such events regularly. This event ended at 12:35 PM with the question-answer session. Prof. Ramandeep Kaur and Prof. Suparna H S were the organizers of this event.



# CST Celebrated Engineer's Day



The Department of Computer Science & Technology celebrated Engineer's Day on 15 th September 2022. This day is the birth ceremony of Bharat Ratna Mokshagundam Visvesvaraya and is celebrated as Engineer's Day in India. On this occasion CST conducted a few events; Painting, poetry, blog writing, Speech Competition, or Debate competition with topics associated with the responsibilities of engineers, Project /Model Display, and Poster Making. All CST students participated and got first, second and third prizes for various events Students were divided into teams according to the events they participated in and all the materials were provided to them. They got 1 hr 30 minutes time to complete and waited for the judgment..





# CST Celebrated Engineer's Day



This event started with the chairperson's address. Dr. M Shahina Parveen, chairperson of CST wished Engineer's Day to all students and addressed the importance of this day. Later Dr. M Shahina Parveen and Prof. Baskar Venugopalan judged all the events and decided on the first, second, and third positions and appreciated students' efforts by giving prizes. Students were very happy and gave very good feedback for this event, it was organized by Prof. Ramandeep Kaur.

## "5 days Soft skills Training"



The Department of Computer Science & Technology organized Soft Skills training for all 5th sem students on 21st and 22nd September in offline mode. We invited resource person **Sujatha Ramesh training consultant Bangalore.**

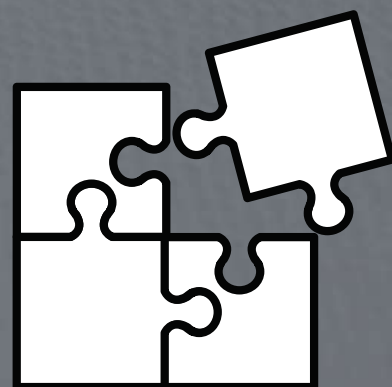
Mrs. SUJATHA RAMESH has 17 years of corporate experience in soft skill training in which 6 years of Marketing, 3yrs of HR -Business development & IT

This event started with the chairperson's address. Dr. M Shahina Parveen, chairperson of CST wished Engineer's Day to all students and addressed the importance of this day. Later Dr. M Shahina Parveen and Prof. Baskar Venugopalan judged all the events and decided on the first, second, and third positions and appreciated students' efforts by giving prizes. Students were very happy and gave very good feedback for this event, it was organized by Prof. Ramandeep Kaur.



### Objective of the event:

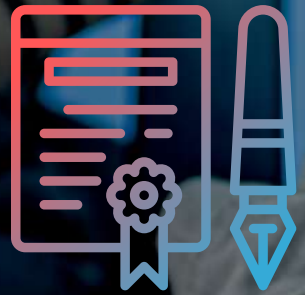
1. Need and importance of Effective Communication and Soft Skills
2. Awareness of Soft Skills requirements for employment
3. List of Top Soft Skills Training required for young Graduates
4. Benefits of Soft Skills Training



38 students we present for a 5-day training, here are the few glimpses of training Certificate Distribution, Valedictory proceeds with the session. We have collected very good feedback from students. Prof. Ramandeep Kaur and Prof. Suparna H S organized this training.



# “Innovation Patent Drafting and Startup”



**Dr. Phani Kumar Pulela, Professor, Computer Science & Engineering Dept, RVCE, Bengaluru** was the resource person for this workshop. He has mentored and mentored over 20 entrepreneurs using “Design thinking by Panchathantra” a story-based methodology to bolster student entrepreneurship. He has trained over 2500 students (schools, college students, and research scholars) till now and takes pride in nurturing students in the path of out-of-box thinking. He received the DBT biotech product process development, and commercialization award in 2017 from the honorable president of India and has over 23 years of industry and research experience.

## “Innovation Patent Drafting and Startup”





# "Innovation Patent Drafting and Startup"

**Our sincere thanks to Dr. K N B Murthy, Vice Chancellor DSU; Dr. Janardhan Pro-Vice Chancellor DSU; Dr. Puttamadappa C, Registrar, DSU; Deputy Registrar, Manu Gowda, DSU; Dr. Uday Kumar Reddy K R, Dean, SoE; Dr. M K Banga, Dean Research, SoE; for their support, guidance, and encouragement. The Workshop is organized by the faculty coordinators Prof Baskar Venugopalan, Prof Swetha Patil, Prof Suparna H S, and Prof Ramandeep Kaur**





# **“Entrepreneurial Ideation & Infrastructure as Code 101”**

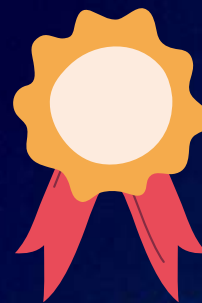


**The Department of Computer Science & Technology organized 30 Hours Value-Added Course On “Entrepreneurial Ideation & Infrastructure as Code 101” from 29/08/2022 to 09/09/2022 in online mode. The target audience of this course was 5th Sem CST Students and Resource Persons were: Mr. Neerav Joshipura, Founder Director, SoftN Enterprises; Dr. M Shahina Parveen, Professor & Chairperson, CST; Prof. Baskar Venugopalan, Professor, CST; Prof. Ramandeep Kaur, Assistant Professor, CST. The course was divided into 10 days 3 hours per day of activities.**



**This value-added course was organized by Prof. Baskar Venugopalan and Prof. Ramandeep Kaur.**

# Student Testimonials



My name is Shivaraj B. H., and I've been studying computer technology at Dayananda Sagar University for 4 years now. During that time, I've learned a lot, all because of the institution's and my professors' ongoing support. I was permitted to use the innovation labs even before my first day of classes at college. I would frequently stay up late working, but I was never asked to leave the lab. The nicest thing about the department, in my opinion, is that you not only learn about the technology but also how to market and sell it through classes in business and entrepreneurship. AIC-DSU assists us in obtaining funding for our ideas, allowing us to translate them into reality. I also like to thank the placement department for guiding me in choosing the proper career path. Overall, my experience here has been beautiful, and this wouldn't have been possible without the institution's founder, Barrister Dayananda Sagar, who built a solid foundation and provided us with the chance to acquire the skills we need to meet the challenges of the outside world.



-Shivaraj B. H.



My time at Dayananda Sagar University was fantastic. The faculty here are among the best, constantly motivating us to succeed in our field in any way possible. They pushed me to achieve my goals. My dreams would have remained dreams if it hadn't been for them. I'm grateful for their love and support.

- Anoop Manikanta S, Dept of CST

My name is Dharshan K, and I've completed my 3rd year of Bachelor of technology in computer science and technology. During this time, I've learned a lot, all because of the institution's and my professors and our chairman Dr.M . Shahina Parveen Mam ongoing support. I got an opportunity to represent our country and our college in Texas as an Exchange Student. The good thing about the department, in my opinion, is that you not only learn about the technology but also how to market and sell it through classes in business and entrepreneurship and also we get experiential learning which is rare in other courses. AIC-DSU assists us in obtaining funding for our ideas, allowing us to translate them into reality. I also like to thank the Dean, Chairman of the CST Department, and placement department for guiding me and helping me during this time. Overall, my experience here has been beautiful, and this wouldn't have been possible without the institution's founder, Barrister Dayananda Sagar, who built a solid foundation and provided us with the chance to acquire the skills we need to meet the challenges of the outside world.



-Dharshan K



# STUDENTS ACHIEVEMENTS

**“Growmmerce is acquired by an American tech agency”**

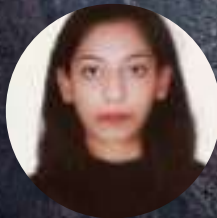


Hrithik Kaul

**Hrithik Kaul, Student of Computer Science Technology's start-up:**

**Growmmerce is acquired by an American tech agency. Growmmerce enables Instagram sellers to sell smarter by converting their Instagram page into a powerful eCommerce website. Websites can be made in minutes on Growmmerce, with a smartphone and without needing to have any technical skills My contribution: UI/UX, Sales ; Marketing, front end development**

**“Introduction to Federated Learning and its Technologies”**



Pranita D

**Pranita D CST Final year student, published her first blog on May 26, 2022**

**She published part 2 of the blog on Jul 18, 2022, entitled as “Federated Learning in Smart Cities (Part 2)” on [www.medium.com](https://www.medium.com).**

# STUDENTS ACHIEVEMENTS

**Shivraj B H has got highest pay salary**



Shivraj B H

**Shivraj B H, has got placed at Juspay company with the highest pay salary and is the first candidate from the 2018-22 batch who got the highest CTC of 21 LPA.**

## **"REMOTE CONTROL WITH ANTI-THEFT APPLICATION"**



Dhanush K

**Dhanush K, Student of Computer Science & Technology published the patent on the topic of "REMOTE CONTROL WITH ANTI-THEFT APPLICATION" under the guidance of Dr M Shahina Parveen - Chairperson of Computer Science and Technology and Dean of Dayananda Sagar University. The innovation which was patented helps to find the smartphone if it is lost with the help of GPS in a lost device and can have remote access to the lost smartphone and can ring the device if it is near the owner.**



## STUDENTS ACHIEVEMENTS

**Vamshi R, CST student has published a patent on “POCKET FUEL”**



Vamshi R

**Vamshi R, Student of Computer Science & Technology filed and published his invention: POCKET FUEL under the guidance of Dr.M Shahina Parveen - Chairperson of Computer Science and Technology and Dean of Dayananda Sagar University. The innovation is a method and system where people can start conserving their money in the (Application) digital wallet to avoid unnecessary expenses. People can save money in this place at their leisure. It is possible to fuel one's vehicle without having to carry cash or a credit card and a phone. If the user's vehicle has a barcode, he or she will need to carry a phone. Users can now enjoy a variety of benefits by using POCKET FUEL, including contactless services. The ability to fuel their vehicle without carrying cash or a card, no waiting for receipts/cards/change, secure transactions, no payment issues, cashback, digital invoice/e-statement, transaction history to keep track of fuel expenses, the ability to have a fun ride with friends, and the ability to teach the importance of both fuel and money.**

## Hackathons

**1.Miss. M S Shashikala had participated Protothon in the academic year 2021 and was guided by Dr. M. Shahina Parveen, Chairperson & Professor, CST.**

**2. Mr. Sohan R V had participated Hackathon in the academic year 2021 and was guided by Prof. Bhavani G.**

# PATENTS PUBLISHED

### 1. "A System and Method for Enabling Logistics Tracker"

Published a patent on "A System and Method for Enabling Logistics Tracker" with application number 202241068773.

Inventors (Keerthi A Reddy, Shreyas B U)

### 2. "A System and Method for Enabling Senior World"

Published a patent on "A System and Method for Enabling Senior World" with application number 202241068774.

Inventors (Sohan R Vernekar, Sai Skanda Saravanan)

### 3. "A System and Method for Enabling SAAS Analysis Tool for Big Data"

Published a patent on "A System and Method for Enabling SAAS Analysis Tool for Big Data" with application number 202241068432.

Inventors (Adnan Md. Syed, Shashikala M S)

### 4. "A System and Method for Enabling MOMIX Platform"

Published a patent on "A System and Method for Enabling MOMIX Platform" with application number 202241068431.

Inventors (Prajwal Mishra, Abhas Agnihotri)

### 5. "A System and Method for Enabling Arthritis Information Platform"

Published a patent on "A System and Method for Enabling Arthritis Information Platform" with application number 202241068433.

Inventors (Tharun Ganesh Naidu, Deepak Boppana Giri, Mucharla Nikhil Guptha)



# PATENTS PUBLISHED

### **6. "A System and Method for Enabling Upskilling Platform"**

Published a patent on "A System and Method for Enabling Upskilling Platform" with application number 202241068048.

### **7. "A System and Method for Enabling Agri Commerce"**

Published a patent on "A System and Method for Enabling Agri Commerce" with application number 202241068049.

Inventors (R Punith Raj, Nihal Prasad R B)

### **8. "A System and Method for Enabling Memory Triggering AR/VR"**

Published a patent on "A System and Method for Enabling Memory Triggering AR/VR" with application number 202241068028


### **9. "A System and Method for Enabling Hassel Free Senior Assistance"**

Published a patent on "A System and Method for Enabling Hassel Free Senior Assistance" with application number 202241068030.

### **10. "A System and Method for Enabling Funding Community for Farmers"**

Published a patent on "A System and Method for Enabling Funding Community for Farmers" with application number 202241068034.

## AWARDS TO THE STUDENTS

- 
- 1) Mr. Sohan R V had awarded with Best Working Model by DERBI in the academic year 2021 and was guided by Prof Bhavani G.
  - 2) Mr.ANSH GUPTA had secured 1st place in Intercollege badminton competition.
  - 3) Mr Sohan R V secured 3rd place in Intercollege volleyball competition.

## STUDENT CERTIFICATIONS

- 1) Mr. Ansh Gupta Udemy Completion Certificates on Tableau Training for Data Science & had received a certificate on "Jugaad Mindset".
- 2) Mr. Sohan R V Winners of the Hackathon organized as a part of create "Engineer for Health".
- 3) Ms. Manogna Yaragal had received a certificate on "Entrepreneurship: how to start a business from business idea and other certificates"
- 4) Ms. Shashikala M S had received a certificate on "Jugaad Mindset" & Protothon.
- 5) Mr. Vaibhav S certificates on value added course (GitHub) & had received a certificate on "Jugaad Mindset".
- 6) Mr. Sathvik P certificates of appreciation from Under 25 DSU.
- 7) Ms. Bhoomika S had received a certificate on "Jugaad Mindset".



# PARENT TEACHER MEETING



**Bengaluru, Karnataka, India**  
TrackNerd GPS Pvt Ltd AIC-DSU Innovation Foundation, Hosur Rd, near Kudlu Gate, Kudlu Gate, Srinivasa Nagar, Hal Layout, Singasandra, Bengaluru, Karnataka 560068, India



**Bengaluru, Karnataka, India**  
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Lat 12.887940°  
Long 77.643867°



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Lat 12.88777°



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Lat 12.887654°  
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Lat 12.887709°  
Long 77.643832°  
10/12/22 01:35 PM

# STAFF ACHIEVEMENTS

## PATENT PUBLICATION

**1. Dr. M. Shahina Parveen and Prof. M. Chithambarathanu published a patent titled (202241068192) "Detection and Classification of machine anomalies using Convolutional Neural Network" (23.12.2022).**



Dr. M. Shahina Parveen  
Chairperson & Professor

**1. Prof. M. Chithambarathanu published a patent titled (202241061041) "Data storage of IoT device based on blockchain" (04.11.2022)**

**2. Prof. M. Chithambarathanu published a patent titled (202241065526) "A Deep Learning based system for anomaly detection in machine learning method" (25.11.2022)**

## Book Publication

**1. Prof. M. Chithambarathanu published a book titled "Theory of Computation" in Scientific International Publishing House (SIPH) [ISBN NO: 978-93-5625-560-9]**



Prof. M. Chithambarathanu  
Assistant Professor



# Staff achievements

## PAPER PUBLICATION

1. Prof. Ramandeep Kaur Published a paper titled "Computing: Types, Detection and Mitigation Schemes" in International Conference on EAI ICISML 2022, Hyderabad.



Prof. Ramandeep Kaur  
Assistant Professor

1. Prof. Swetha Patil Published a paper titled "Puzzle Optimisation Algorithm based Weighted Feature Selection for Identification of Rice Leaf Disease through Thermal Images" in International Conference on IEEE - STCR 2022 during December 10 and 11, 2022, Tamilnadu.



Prof. Swetha Patil  
Assistant Professor



# Faculty of CST





## EDITORIAL COMMITTEE

### Editor in Chief



**Dr. M Shahina Parveen.**  
**Chairperson & Professor**  
Department of Computer Science & Technology

### Faculty coordinator



**Prof. M. Chithambarathanu**  
**Assistant Professor**  
Department of Computer Science & Technology

### Student coordinators



**Sohana R**  
**3rd sem CST**



**Hemant S**  
**3rd sem CST**

**Dayananda Sagar University**

**Innovation Campus**

**School of Engineering**

**Kudlu Gate, Hosur Road, Bengaluru - 560 068**



## **PROGRAMME OUTCOMES (POs)**

**Upon completion of this programme, students will be able to**

**PO 1.Demonstrated competence in university level mathematics, natural sciences, engineering fundamentals, and specialized engineering knowledge appropriate to the program.**

**PO 2.Use appropriate knowledge and skills to identify, formulate, analyze, and solve complex engineering problems to reach substantiated conclusions.**

**PO 3.Conduct investigations of complex problems by methods that include appropriate experiments, analysis and interpretation of data and synthesis of information to reach valid conclusions.**

**PO 4.Design solutions for complex, open-ended engineering problems and to design systems, components or processes that meet specified needs with appropriate attention to health and safety risks, applicable standards, and economic, environmental, cultural and societal considerations.**

**PO 5.Create appropriate techniques, resources, and modern engineering tools to a range of engineering activities, from simple to complex, with an understanding of the associated limitations.**

**PO 6.Work effectively as a member and leader in teams, preferably in a multi-disciplinary setting.**

**PO 7.Communicate complex engineering concepts within the profession and with society at large.**

**PO 8.Explain the roles and responsibilities of the professional engineer in society, especially the primary role of protection of the public and the public interest.**

**PO 9.Analyze social and environmental aspects of engineering activities.**

**PO 10.Apply professional ethics, accountability, and equity.**

**PO 11.Incorporate economics and business practices including project, risk, and change management into the practice of engineering and to understand their limitations.**

**PO12.Identify and to address their own educational needs in a changing world in ways sufficient to maintain their competence and to allow them to contribute to the advancement of knowledge.**

**Dayananda Sagar University**

**Innovation Campus**

**School of Engineering**

**Kudlu Gate, Hosur Road, Bengaluru - 560 068**





## **PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)**

**PEO 1.**Our graduates will have ethical reasoning skills, understand social, civic, and professional responsibilities leading to accomplished careers in industry, government, educational and research institutes..

**PEO 2.**Our graduates will possess intellect, critically think to solve qualitative and quantitative issues with acquired computational technology theories, tools and will make appropriate decisions.

**PEO 3.**Our alumnus will continue to learn and advance their careers and utilize interpersonal and leadership skills to be highly effective business managers, demonstrating emotional intelligence, curiosity, teamwork, reflection, and knowledge transfer skills.

## **PROGRAMME SPECIFIC OUTCOMES (PSOs)**

**PSO 1.**Conceptualize domain specific problems, analyze, and develop efficient algorithms by applying best industry practices and techniques in developing software systems.

**PSO 2.**Apply computer science tools and techniques to solve different classes of technology problems by following ethical practices.

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