COMED KARES
INNOVATION HUB

MONTHLY NEWSLETTER
SEPTEMBER 2023

Unveiling a Month of Thrilling Events and Milestones!

INTRODUCTION

ComedKares is an initiative by ComedK to help engineering, dental, and medical college students build their competitiveness through experiential and hands-on learning, thereby enhancing the employability of youth and helping them land a career of their choice.

ComedKares offers a variety of courses designed along with industry experts and endorsed by VTU that enhance the learner's 21st-century skills while giving access to a host of machines, tools and mentors to build solutions that positively impact the Community.

ComedKares catalyzes the interaction between the Community (industry and regional professional groups), Industry experts and academic stakeholders for knowledge sharing and co-creating solutions through various programs spread across the year.

Each center is led by a team of 4 experienced staff - administrators, center managers and facilitators as well as makerspace assistants - and opens its doors to students across the year to take up courses within their academic timelines, either in the form of internships, semester programs or workshops, with an added benefit of webinars every month accessible through the ComedKares portal.

The centers also encourage a culture of the building by supporting students to compete in IIT & NIT events and helping them explore various avenues where they can build their confidence and develop new-age skills.

This month, we opened the center's doors to new industry-academia activities. We facilitated and co-organised hackathons and events, which saw the participation of students and created awareness of the ComedKares initiative and interest in collaborating and enabling community co-creation, strengthening our position as a community-centric innovation hub that encourages a culture of building among the youth. Our students have proudly represented both ComedKares and their respective institutions on multiple platforms, achieving remarkable accolades and recognition.
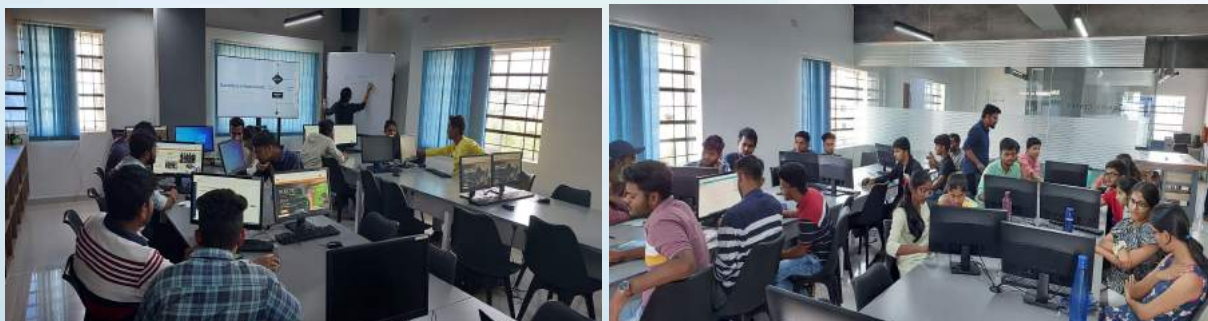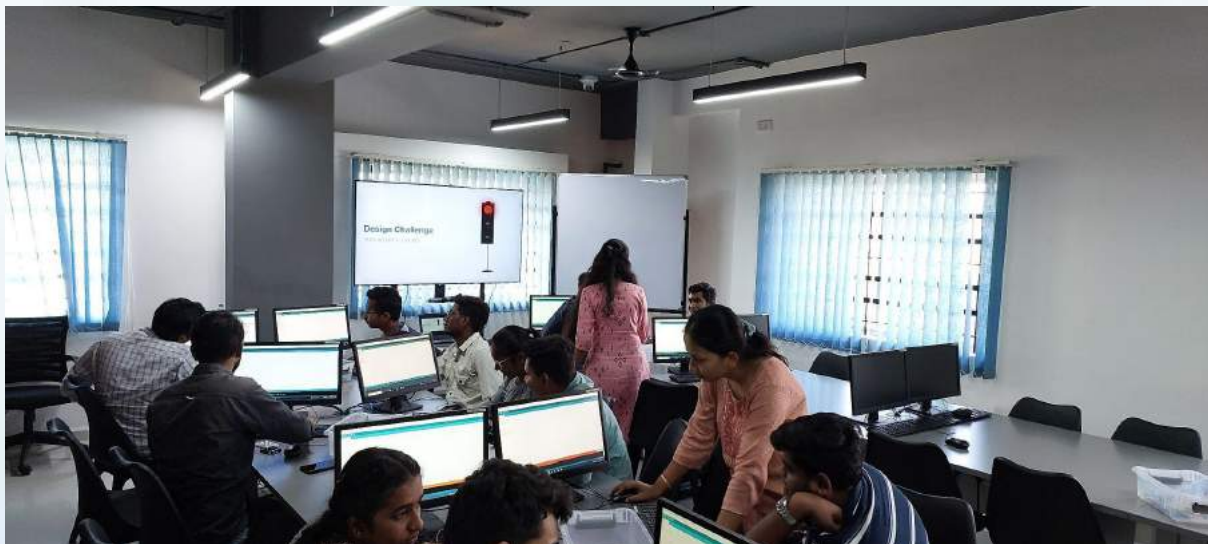
Training @ ComedKares Innovation Hubs

Courses	Center	No of students	Start date	End date
Robotics	Gopalan Mall	3	7/09/23	22/09/23
	Banaswadi	14	30/06/2023	Going on
	Yelahanka	65	26/08/2023	14/09/2023
Innovation & Design Thinking	JP Nagar	122	10/06/2023	19/09/2023
	Mysore	567	05/06/2023	09/09/2023
	Yelahanka	5	08/06/2023	Going on
	Banaswadi	3	22/01/2023 (Batch 1)	21/03/2023 (Batch 1)
	Banaswadi	3	01/07/2023 (Batch 2)	Going on (Batch 2)

Internship @ ComedKares Innovation Hubs

At present, 3 Innovation Hubs are actively involving students in the Robotics course/Internship, while an additional 3 centers are offering Innovation and Design Thinking Courses to students.

| Industry Internship	Mangalore	06	17/08/2023	17/01/2024
Robotics Internship	Belgaum	33	16/08/2023	16/09/2023
	Gopalan	8		

**Students of KLS Gogte institute of technology and KLE Dr. M.S. Sheshgiri undergoing Robotic Course
@ ComedKares Innovation Hub in Belgaum**

Students from MS Ramaiha University of applied science undergoing Robotic Course
@ ComedKares Innovation Hub in Yelahanka

Overall Course Rating
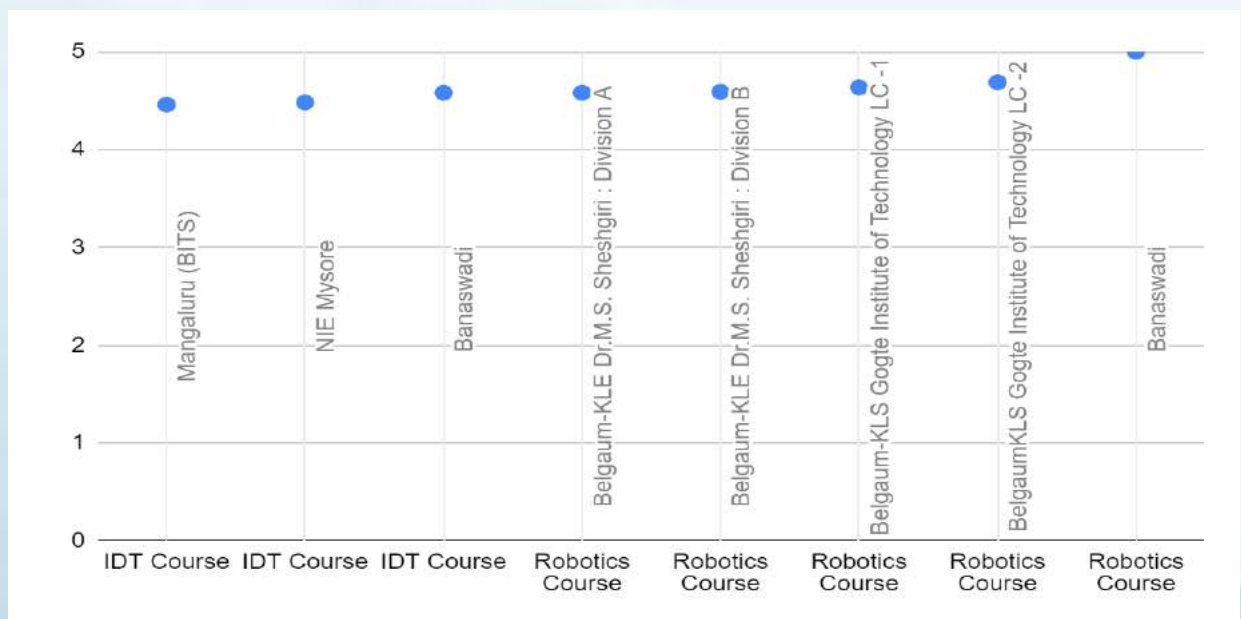
Average program rating: **4.63**/5 (consistent rating since August)

Procurement Details(September)

Course/Internship	Center	Type of Procurement	Date of Procurement
Induction Program	J P Nagar	Stationery,Electronic Components	12-09-2023
Robotics Internship	Belgaum	Electronic Components	12-09-2023
Robotics Internship	Yelahanka	Electronic Components	12-09-2023

Updates on the ComedKares LMS: Bug Fixes and New Features!

The ComedKares LMS is integral to the diverse programs and courses across the centers. It catalyzes ComedKares' activities, fostering self-learning among students through courses, workshops, and events. This interactive platform provides learning materials and community problem statements, promoting student engagement. Currently, all programs require students to upload their work, including case studies and design challenges, onto the platform for evaluation. Mandatory quizzes also assess their knowledge level.

New Features

- Automated Certificate generation for events. Previously, event certificates were manually generated. With the new workflow, when participants submit the feedback form and attendance, the certificate is sent to them automatically.
- Improved app feedback. Now, additional information can be captured if needed. (i.e. screenshot, additional device info, etc.)
- Implemented remarks tags in milestone evaluations.

New Features - Gallery

Additional remarks and tags in milestone evaluations.

Additional info page in app feedback.

Bug Fixes and Performance improvements

1. **Improved notification**: User notification flow has been simplified. Before for some students, notification would take longer to load. Now the loading time has been reduced.
2. **Updates to assignment :** API for assignment has been simplified.
3. **Events form UI fix in mobile:** In mobile phones, some forms were not clearly visible due to CSS padding issue.

Outreach for the month of September

Sl. No	Center	College Name	Reason
1.	Yelahanka	Sri Krishna Institute of Technology	Induction
2		Sambhram Institute of Technology	Induction & Internship
3		MSRUAS	Hackathon
4		Nitte Meenakshi Institute of Technology	SIH
5		Sri Venkateswara College of Engineering	SIH & Internship
6		Acharya Institute of Technology	SIH
7		Sai Vidya Institute of Technology	SIH
8	Banaswadi	Atria University	Induction & Internship
9		Gopalan College of Engineering	Internship & Induction
10		BTI	Internship & Induction
11		SEA College of Engineering	SIH

12	JP Nagar	T John Institute of technology	Hackathon & Bridge Course
13		Sri Sai Ram College of Engineering	Internship & Courses
14		City Engineering College	Internship
15		Vemana Institute of Technology	SIH
16		The Oxford College of Engineering	SIH
17	Mangalore	AJ Institute of technology	Induction & Internship
18		Alvas Institute of Technology	Induction & Internship
19		Sahyadri College of Engineering	Internship
20		St Joseph College of Engineering	Internship
21		PA College of Engineering	Induction & Internship
22		Canara College of Engineering	SIH
23		Yenepoya Institute of Technology	SIH & Induction
24	Kalburgi	Shetty Institute of Technology	Internship
25		Appaji Institute of technology	Internship & Courses
26		Godutai Engineering College for Womens	Internship & Courses
27		KBN College of Engineering	Internship
28	Belgaum	Gogte Institute of technology	Robotics
29		Jain College of Engineering	Internship
30		KLE Technological University	Robotics

31		Maratha Mandal Engineering College	Courses
32		Vidyavardhaka College of Engineering	Internship
33	Mysore	Vidya Vikas Institute of Technology	Courses & Internship
34		Maharaja Institute of Technology	Internship & SIH

35		GSSS College of Engineering	Internship
36	Mysore	JCE	Courses & Internship
37		Jnana Vikas Institute of Technology	Internship
38	Gopalan Mall	Rajarajeshwari College of Engineering	Internship
39		Don Bosco Institute of Technology	Internship

Outcome:

- Jain College of Engineering, Belagavi, will undergo Internship for 200+ students in the month of october.
- Sahyadri College of Engineering, Mangalore, will undergo Robotics Internship for 120 students in the month of october.
- Atria Institute of Technology, Bangalore will undergo internship for 120 students in the month of october.
- Gopalan College of Engineering, Bangalore is in talks for Internship for 300 students.
- JSS Polytechnic, Mysore is asking for a Course for 300 students.
- NIE, Mysore is asking for a State level Hackathon in collaboration with Comedkares.
- Appaji Institute of Technology, Kalburgi. Is considered for ComedKares Programs.
- AJ Institute of Technology, Mangalore will undergo an internship for 120 students in the month of october.

Center	College Name	Internship
Yelahanka	BMSIT	
Banaswadi	Atria Institute of Technology	120
Mangalore	AJ Institute of Technology	66 + (60)
	St Joseph College of Engineering	18
	Sahyadri College of Engineering	128
Belagavi	Jain College of Engineering	200+
Kalaburgi	Shetty Institute of Technology	55

Induction Programs @ Institutes

1. Banaswadi ComedKares team successfully conducted an **Induction program** for 1st Year students was conducted at **Atria Institute of technology**
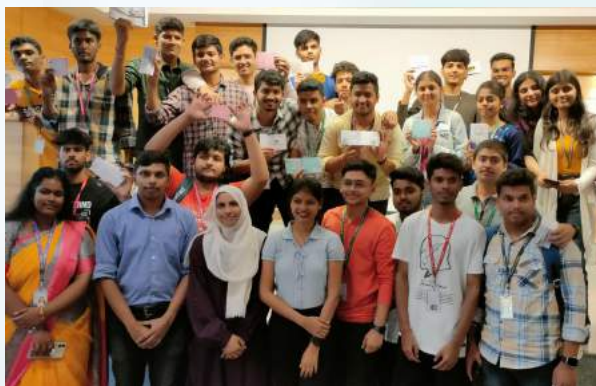
2. Banaswadi ComedKares team successfully conducted an **Induction program** for 1st Year students was conducted at **Sambhram Institute of technology**

3. Mangalore ComedKares team successfully conducted an **Induction program** for 2nd Year students was conducted at **AJ Institute of technology**

4. Banaswadi ComedKares team successfully conducted an **Induction program** for 1st Year students at **Gopalan College of Engineering.**

5. Mangalore ComedKares team successfully conducted an **Induction program** for 1st Year students was conducted at **Alvas Institute of technology**

6. JP Nagar ComedKares team successfully conducted an **Bridge Course** for 1st Year students was conducted at **TJohn Institute of technology**

7. Banaswadi ComedKares team successfully conducted an **Induction program** for 1st Year students was conducted at **Sri krishna Institute of technology**

We have successfully completed the first batch of the bridge course at T John Institute of technology. In this batch, we found a remarkable number of enthusiastic learners and exceptionally creative students. Especially, We saw excited parents who joined in and participated in the bot race. Overall it was a big success

.

A meeting was held with Mr. Amarthya, the co-founder of Cre Aid Labs, a company specializing in 3D-printed splints. Also present were Dr. Shashidhar and our fabricator, Mr. Puneeth.

One of our students, Deva Kumar, a 1st-year student, and his friends from Atria Institute of Technology participated in the Project Exhibition and first Ist place, where they made a Home Automation Prototype for PWD.

Our students Keerthi HN and K Manoj E&C branch from Cambridge institute of technology participated in ANVESHAN'23 Tech event at Christ University Bangalore Kengeri campus, They won 7.5K cash prize and secured second place in auto bot competition.

Students from Yelahanka Center robotic batch participated in MSRUS inter college robotic competition and won 1st and 3rd place

| Center	Events	Participate Students details	Date and place of the event	Achievement / Prizes
Banaswadi	ANVESHAN '23 Project Exhibition	Keerthi HN and K Manoj Deva Kumar	08/09/2023 Christ University Bangalore Kengeri campus, 07/09/2023 Atria Institute of Technology	Second place and won cash prize of 7.5K 1st place
Mangalore	Ideathon 2023 Anveshana	Tejas Kumar Syed Saleha **Alva's Institute of Engineering and Technology** Saiprasad Nayak Ujwal Naik **Akshaya college**	9th Sep Shimoga	Selected among top 10 teams
Yelahanka	MSRUAS Inter College Robotics Competition	**1st place** - Madhura Bedekar, Anirudh Maruti Killekar, Kushal M K **3rd place-** Harshit, Karthik, Srusti	15/09/2023 M S Ramaiah University of applied science	1st and 3rd

Notable Visits Across the Innovation Hubs

Center	Visitor details	Photo with visitors (drive link or / photo)
Yelahanka	Dr. Jayaram, Dr. S Kumar, Mr. S V Ranganath, Dr. K R S Murthy, Prof. S K Brahmachari, Mr. Muralidhar Ponnaluri and people from advisory board of CM	Centre visit Yelahanka(14th sep)
Mysore	**Meritors HVS (India)Limited** Devikiran Shetty team leader(BE)	center visit-sep
Mangalore	Major Sunil shetty along with members of IFIA	📄 IMG-20230914-WA…

Webinars, Workshops & Hackathons

| Center	Type (webinar/workshop)	Enrolment	Attendance	Rating
Yelahanka	Internal Hackathon for Smart India Hackathon at MSRUAS		20 Teams	

Updates on the Faculty Development Program
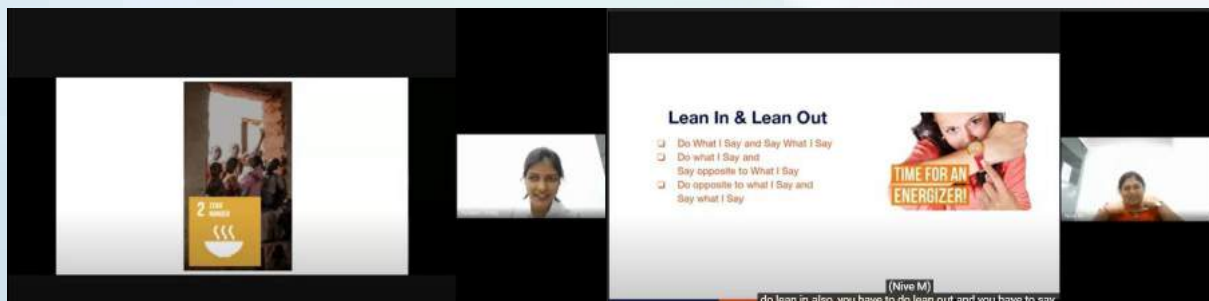
The Faculty Development Program (FDP) is an **internal capacity enhancement initiative** for ComedKares facilitators and maker space assistants. It aims to enrich their skills and deepen their understanding of technical and non-technical subjects. In July, the team diligently pursued FDP 1, focusing on Social Innovation and Rapid

Prototyping. The program will also be continued for new facilitators of ComedKares in the upcoming months.

Projects built during the FDP for recent hires
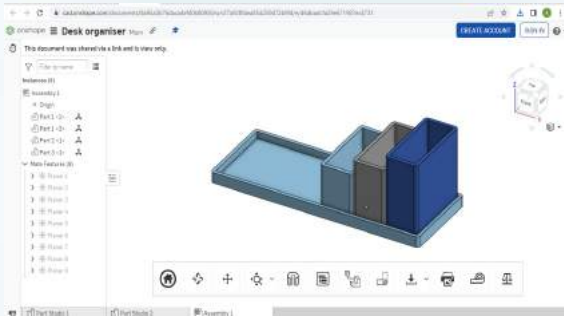
TOPICS	OBJECTIVE
CAD software	A basic understanding on how to design a part, create assembly and export the file for laser cutting, 3D print etc
Laser cutting / Vinyl cutting	Learn to use laser cutting and vinyl cutting machines and gain knowledge about its maintenance.
Hand Tools & Power tools	Gain knowledge about different Hand tools, Power tools, get handy with them and know their application
UI/UX softwares	Creating wireframes and paper prototypes
Basic Electronics and Soldering	Understand the basic knowledge on how to use electronic components and sensors and apply it in real time projects
Arduino Challenge, MIT App inventor & 3D printing	Implement the knowledge gained in the Arduino, MIT app inventor and 3D printing into a single project.
Design Thinking	Introduce the participants to the process of problem solving using design thinking

Sl. No.	Name	Organisation	Email ID	Phone no.	Linkedin	Event
1	Krishna Jonnakadla	Co-founder CEO - Vouch	krishna.jonnakadla@gmail.com	98865 00757	https://www.linkedin.com/in/krishnajonnakadla/	JVIT-Fireside chat
2	Dr. Mahesh Rao	CEO- Aashaya design solutions	raomahesh08@gmail.com	98454 22755	https://www.linkedin.com/in/mahesh-rao-46a6a/	Mysore techties
3	Dr Basavaraj Madhusudan	Founder-BMS academy, Nano Technology Mysore	bmsiam.in@gmail.com , prof.madhusudhan@gmail.com	9880548239	https://www.linkedin.com/in/basavaraj-madhusudhan-6586508a/	Mysore techties
4	Karthigeyan (Karthi) S	Founder, Director, CEO-Logycent	karthigeyan.s@gmail.com	9945768360	https://www.linkedin.com/in/karthigeyan--s/	Mysore techties
5	Raghavendra	Founder & CEO Mechanical foundry industry, Mysore Ex- chairman of chamber of commerce	hdrmys@gmail.com	94481 01509		Mysore techties
6	Prof. Armugam	MSME senior consultant and advisor and mentor for startups	armugammp@gmail.com	76767 84635		Mysore techties
7	Roshan Rai	Founder & CEO @ Carbon Mandal	roshan@carbonmandal.com	6364 397342	https://www.linkedin.com/in/roshan-rai-mohandas-55a30	Mysore techties

					662/	
8	Raghunan dan	Facility manager - K-tech innovation hub		83100 94315		Mysore techties
9	Anand Kadakol	Non Exec DirectorNon Exec Director Hexlattice Materials Pvt. Ltd.	anandkadak@gmail.com	96203 67124	https://www.linkedin.com/in/anandkadakol/	Belgaum techties
10	Santosh Ittanagi	Founding MemberFoundig Member VTU VIRF	santoshittanagi@gmail.com	72593 18233	https://www.linkedin.com/in/santosh-ittanagi-36353739/	Belgaum techties
11	Siddharth Mutkekar	Founder & CEOFounder & CEO Arbitrio Technologies Pvt Ltd	siddharth.mutkekar00730@gmail.com		https://www.linkedin.com/in/siddharth-mutkekar-2368a1164/	Belgaum techties
12	Karan javali	Founder & CEO-Move on wheels	imkaranjavali@gmail.com	78877 27772	https://www.linkedin.com/in/karanjavali/	Belgaum techties
13	Aishwarya Raikar	Founder & CEO-Musing quills	musingquills@gmail.com	80885 16143	https://www.linkedin.com/in/aishwarya-arvind-raikar-0457841a9/	Belgaum techties
14	Anup Bettageri	Cofounder Okay Majesty and musing quills	anoopsb111@gmail.com	6364 693 808	https://www.linkedin.com/in/anoop-s-betageri-784693163/	Belgaum techties
15	Swati	Director-Subhash photo				Belgaum techties

		studio, belgaum's No.1 studio since 50 years					
16	Raju Patil	ProprietorProprietor agriMitra.com	callerinfoid@gmail.com	9886060490	https://www.linkedin.com/in/callerinfoid/	Belgaum techties
17	Dr. Dinesh	FOunder & Director- Cybersena R&D private limited	sridini@gmail.com	77670 76988	https://www.linkedin.com/in/dr-dinesha-h-a-b912a241/	Skill Lab
18	Narayan Inamdar	Rtd. Sr. scientist from ISRO & NASA	ninamdar@yahoo.com	86394 67798		KBN-FIreside chat

Plan for October

In August 2023, the following activities will be undertaken by the verticals:

Courses:

a. **Continuation of existing batches** undertaking Robotics as well as the Innovation and Design Thinking Courses
b. **Engagement of new students** at the ComedKares centers as per the outreach information
- Alva's Institute of Technology
- Canara Engineering College
- Yenepoya Institute of Technology
- Dr. Nijalingappa Dental College
- Veterinary College

Events:

a. **Two webinars** - To ensure the ComedKares community of students are engaged via knowledge sessions
b. **TechTies** - Professional Meet & Greet at Mysore, Belgaum, and Bangalore

Outreach:

a. Promoting **4th Sem Internship** (October) in institutions to maximize visibility and attract a wider pool of aspiring participants.
b. Promoting **IDT Programs** (New Batch) in institutions to maximize visibility and attract a wider pool of aspiring participants.
c. Promoting short-duration project-building programs as an interest-building activity. This would give us the curated students for the ambassador program.
d. Conducting **engaging workshops every week** at our centers aimed at increasing footfall and fostering a vibrant learning environment.

Documentation:

1. The Documentation team will diligently compile and submit the post-program report upon completing courses conducted across all centers. This comprehensive report will provide valuable insights and an overview of the program's outcomes and achievements.

Platform improvements:

- Student reports and the new evaluation portal will continue to be developed.

1. Courses:

We look forward to delivering the Robotics and Innovation & Design Thinking courses at ComedKares centers in the upcoming month. These courses will commence as scheduled, based on the sign-ups received from participating institutions. Please refer to the table below for specific details regarding the course commencement dates and timings

Courses @ ComedKares Innovation Hubs

Courses	Center	No of students	Start date	End date
Robotics	Mangalore	100 (Sahyadri)	October (Date not confirmed)	30-10-2023
	Belgaum	50 (KLE)	15-10-2023	30-12-2023
		60 (GIT)	15-10-2023	30 -12-2023
	Yelahanka	65(MS Ramaiha University)	26/08/2023	30/10/2023
Innovation & Design Thinking	JP Nagar	120-150 (T. John college)	October (Date not confirmed)	30-09-2023
	Mysore	Around 500-600	October (Date not confirmed)	30-10-2023
	Mangalore	100-150 (AJ College)	09-09-2023	30-10-2023
	Yelahanka	5(Atria college)	26/08/2023	30/12/2023

2. Events

Objective:

1.   To create awareness among students about ComedKares' offerings

2.   To enhance the student experience and foster greater engagement among those already enrolled in our programs

Event	Topic
Webinar	Preparing for a Career in Cybersecurity: Skills and Education Required
Webinar	Building resume from 1st year
Workshop	Line Follower Workshop
Workshop	Pick & Place Challenge
Workshop	BYF - Application
Workshop	Launcher Challenge
Fireside Chat	Journey of projects, innovations, and entrepreneurship in student life
TechTies	Professional Meet & Greet

3. Feedback & Quality Assurance

Objective: To ensure creation and implementation of a Monitoring,Evaluation and Learning plan for the active ComedKares courses and events in the month of August.

Outputs:

1.   Learnings document with monitored ad-hoc program interventions
2.   Immediate resolution of operational/delivery related issues
3.   Program health monitoring on a weekly basis available to the respective program heads
4.   List of out performing teams and students based on portal evaluation
5.   Evaluate the effectiveness of the TechTies event and document outcomes

4. Platform Improvements

The portal will be updated with the following features for a better user experience for the students and the facilitators:

- Student report

- New evaluation portal for facilitators
- Minor improvements/Bug fixes

Procurement Details(October)

Course/Internship	Center	Type of Procurement
Innovation and Design Thinking	Mysore	Stationery, Electronic Components, Hardwares.
Innovation and Design Thinking	Kalaburagi	Stationery, Electronic Components, Hardwares.
Robotics Internship	Mangalore	Electronic Components

Post Program Findings of our Courses

Robotics Course Assessment Report of 4 Batches
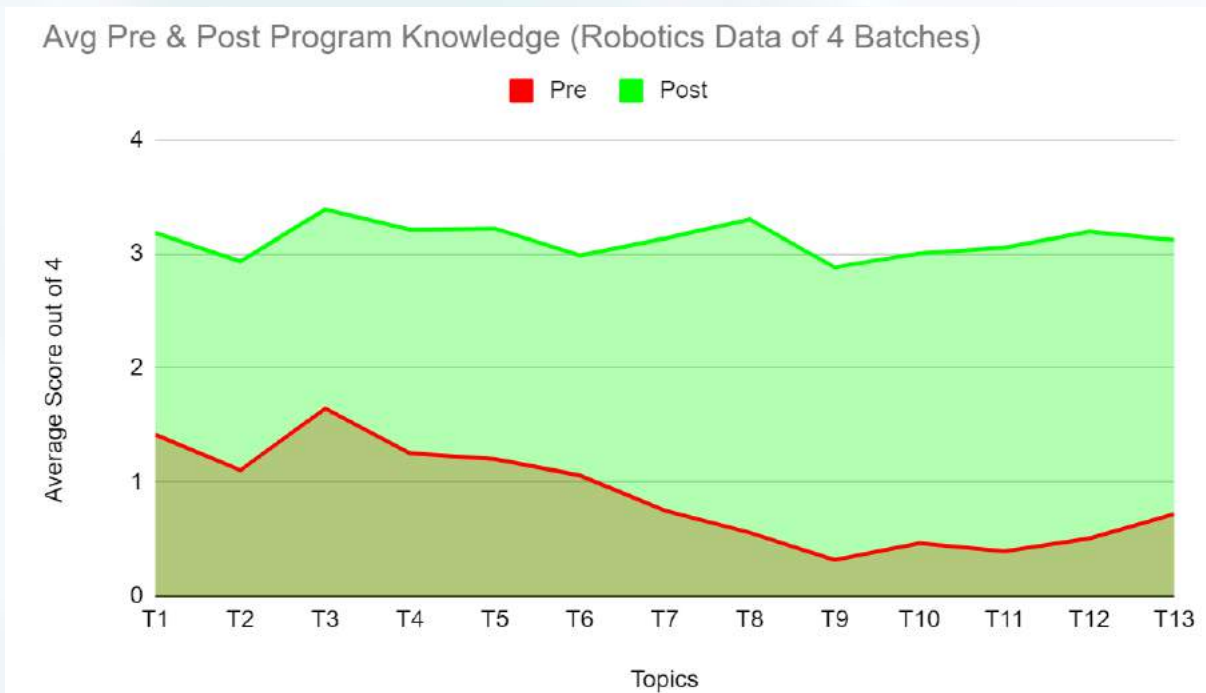
The graduating batches at JP (3) and Gopalan (1) Centres in Bangalore have resulted in a **significant increase in knowledge levels (3.1235 points average across all topics) self-reported by students.** Based on the course outcomes, 13 topic-related questions were posed to the students before and after the program to see the change in their self-efficacy levels. The highest score of 4 indicates complete practical expertise in the topic, and **a score of 3 means achievement of program-relevant objectives**, which has been confirmed for all the centers.

Refer to the table for the tags and their relevant topics

Topics	Tag	Topics	Tag
Microcontroller	T1	Interfacing Sensors and Actuators with Raspberry Pi	T8

Arduino	T2	Raspberry Pi for Motion Control	T9
Sensor	T3	Computer Vision and OpenCV	T10
Motor Control	T4	Object Detection Using openCV and HSV	T11
Robot Motion Control	T5	Detecting Edges or Lanes Using OpenCV	T12
Python Programming	T6	Object detection and Move Around Arena	T13
Raspberry Pi	T7		

Gallery