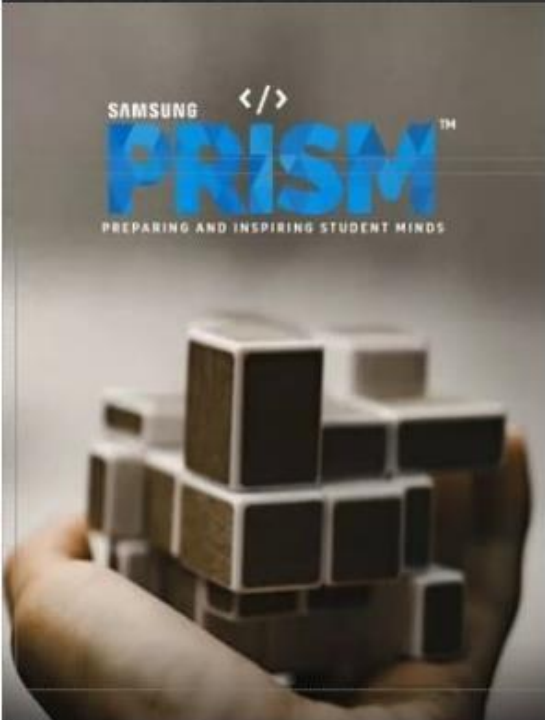**Samsung PRISM-MoU Activities**

Samsung PRISM stands for Preparing and Inspiring Student Minds. It is a student program offering students a chance to work on real-world projects, interact with Samsung's top technical experts and provide hands-on experience in core technology domains. Samsung PRISM Signed MoU with KCT on 3rd August 2020 and collaborated with the department and identified areas of interest of Professors to collaborate with Samsung technology leaders. Mr.SenthilkumarV is identified as the single point of Contact. As part of this program, Students and Professors will form teams. Each team will be assigned a work-let* and a mentor from SRI-B. The team will be required to deliver project in a specified timeframe and earn exciting benefits.

On 2/11/2020, Samsung Prism Online Meeting with Faculty was held in Virtual Mode**.** As part of this program, Samsung Prism has signed an MoU with KCT to collaborate with professors and assign problem statements in their field of interest. In addition, Samsung Prism will have a launch session for all the CSE/IT/MCA/ISE/ECE faculty on November 2nd, 2020 [Monday] at 10 a.m. to 11 a.m.

Some notable area of collaboration are as follows

- Computer Vision

- Artificial Intelligence/ Machine Learning (Voice, On-Device &Data)

- Speech Processing (Voice)

- Internet of Things
 - Image Processing (Vision- Camera)

Samsung Prism Worklet Details

Samsung Prism Online Meeting with Students conducted on 12/11/2020 through Virtual Mode On 12/11/2020 (Monday), a Samsung Prism Student Meeting was held for third-year students via MS Teams. 400 students registered among all departments like CSE, IT, MCA, ECE, ISE, and EIE. This meeting was mainly conducted to have an overview of Samsung prism and student online tests for the selection process. Samsung Prism Online Tests for Worklet Allocation were conducted on November 28, 2020 through Virtual Mode. Samsung Prism Student Selection Online Tests were conducted on November 28, 2020 (Saturday) for 3rd year students. A total of 400 students registered among all departments like CSE, IT, MCA, ECE, ISE, and EIE. A total of 34 students were chosen from a pool of 300 applicants for the Samsung Prism Worklet.

SAMSUNG PRISM PHASE I -8 Worklets Details:

S.No.	Worklet Title	Faculty Guide	Students	Duration	Status
1	K-means clustering (Shallow Learning Algorithm)	Dr.P.Devaki HoD/CSE & Dr.S.Nithyaroopa	Adithya.G/CSE, Subash/CSE, Malavika J S/CSE& Pavithra N/CSE	Feb 2021 to August 2021	completed
2	DBSCAN clustering (Shallow Learning Algorithm)	Dr.Thirumal P C /IT& Dr.V.Geetha /MCA	Shiva Sailesh K E/IT,Surya V/IT, Praveen Kumar/ECE& Aswath S/CSE	Feb 2021 to August 2021	Completed
3	Agglomerative Hierarchical clustering (Shallow Learning Algorithm)	Mr. Thiruvaazhi HoD/ISE& Dr.V.Vanitha /IT	SheikHarris/ISE, GokulakrishnanR/ISE, Pawankumar S/ISE& Udaya Raja A/ISE	Feb 2021 to August 2021	Completed and Awarded Excellent worklet
4	ElasticNet Regression (Shallow Learning Algorithm)	Mrs.S.Bharathipriya/CSE& Mr.R.kirubakaran/CSE	Jenfero/CSE, Rohini/CSE, Kesavan/CSE & Ibrahim Kalil/CSE	Feb 2021 to August 2021	Completed and Awarded Excellent worklet
5	Flash Glare Removal – Single image solution	Dr.Syed Ali FathimaS J/CSE & Dr.S.Rajini/CSE	Sivaram Shabari/CSE,Saran N/CSE, Guruprasath M/ISE& Jananipriya R M/CSE	Feb 2021 to August 2021	Completed
6	Audio De-noising_v3	Dr. W. Jai Singh/MCA& Dr. L. Dhanabal /MCA	Hariharan A /ISE& Narendrakumar D.S /ISE	Feb 2021 to August 2021	Completed

7	Implementation of Scene Detection using Deep Learning	Dr.L.Latha/ CSE& Dr.K.R.Baskara n /CSE	Vasanth/CS E, Arvind.B.S/ CSE& Raajakishore R/CSE	Feb 2021 to August 2021	Complete d
8	Gaussian Mixture clustering (Shallow Learning Algorithm)	Dr.D.Sathya /CSE& Dr.D.Chandraka la /ISE	Aparna M/CSE, C.Nikhil Nanthan/ISE, Harshavardhan T/ISE & K.Nandhakumar /ISE	Feb 2021 to August 2021	Complete d

Samsung PRISM – Phase I Outcome

> Two worklet teams received excellent awards out of eight worklets.

    -ElasticNet Regression (Shallow Learning Algorithm) and

    -Agglomerative Hierarchical clustering (Shallow Learning Algorithm)

> The amount of **Rs. 1,33,600**/-received for excellent worklets from Samsung Prism to the students and faculties.
> Virtual internships certificate will be awarded to all students who participated in the worklet, and rewards will be given to those who performed very well.

Certificate of Excellence

Excellent Rewards with Amazon vouchers worth Rs.11,100/-

[Samsung PRISM] [KCT] [OD66KCT] Congratulations for successful completion of your work-let ! Inbox ×

SAMSUNG PRISM <prism@samsung.com>
to me

Hi,

We appreciate your efforts and commitment towards Samsung PRISM project.
We are happy to award you with 'Certificate of Excellence' along with amazon vouchers worth **Rs. 11,100/-**

Jenfero N	jenfero293@gmail.com	Student

TOTAL VOUCHERS - 4

Amount	Expiry Date	Gift Card Code
7,800	2022-11-24	BZEC-9T98YF-QVEA
3,000	2022-11-24	8XQZ-4G49FY-W4C3
200	2022-12-08	MWFQ-U4GNHR-82TD
100	2022-12-08	4W2D-ZCFHBT-X7GC

Samsung Prism Project Phase II - Launch Event

In connection a Guest Lecture on "Samsung Prism Project Phase II - Launch Event " was conducted on 30.08.2021 for the Third year students in which 152 students participated. An assessment for the student is to be conducted to choose the students with better understanding of the requirements for further collaborative events.
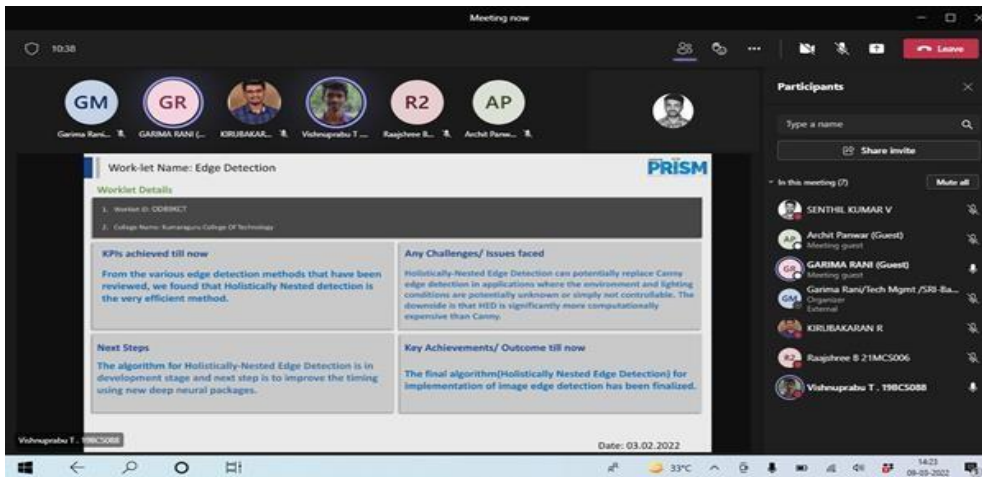
Samsung Prism Project Phase II

Samsung Prism Project Phase II comprises of 11 real-time worklets for February – July 2022. Shortlisted students from third year CSE and M.E. CSE work on the assigned worklet under the guidance of a faculty mentor and industry mentor from SRI-B. Each team has to deliver the working solution for the problem statement with the given time frame. Periodic review and monthly assessments are conducted evaluate the progress. 58 CSE students and 30 faculty members are assigned to the Samsung Project Phase II worklets. The 11 worklets are listed below in the given table.
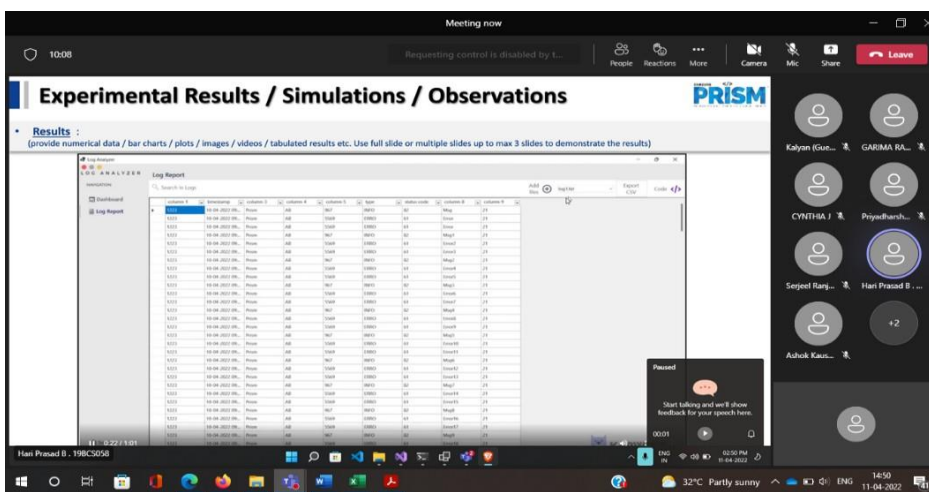
S.No.	Worklet Title	Faculty Guide	Students	Duration	Status
1	Report Generation with Image Viewer and Editor	Dr.P.Devaki HoD/CSE & Mrs.S.Bharathi priya/CSE	Gokul Raam M/CSE , Jeeva/CSE, Rajheshwar V/CSE &Vishal K B/CSE	Feb 2022 to August 2022	Completed
2	AI, ML | Edge Detection	Mr. V.Senthilkumar/CSE & Mr.R.Kirubakaran/CSE	Vishnu Prabu T/CSE , Bhavika Premchand Arage/CSE , Sharat/CSE& Raajshree B/CSE	Feb 2022 to August 2022	Completed
3	Stress Detection for Mobile Users	Dr.V.Vanitha/IT & Dr.Rajajathi /IT	Naveen Vignesh, Prakash Kumar K& Sanjana N	March 2022 to August 2022	Completed
4	Statistical Learning based Congestion Detection and Control	Ms.D.Aswini/CSE & X.Francis Jency/CSE	Bothiprasaadh S P/CSE Vedha smritha S/CSE Janani.P/M.E./CSE & Siva Prakash K/CSE	Feb 2022 to August 2022	Completed
5	4G Call – FOA KPI Analyzer Tool	Dr.Sudha /CSE& Ms.V.Suganya /CSE	Keerthana/CSE, Santhiya/CSE Harish Kumar/CSE &	Feb 2022 to August 2022	Completed

			Sri suvetha C S/CSE		
6	Detect user actions on devices &Monitor Performance parameters	Dr.N.Suganthi/CSE & Dr.V.P.Sumathi/CSE	Rithik Sarvesh B/CSEB Nishanth/CSE, Azhagesh Waran & Asifa Y/IT	April 2022 to September 2022	Completed
7	Automatic Generation of Sequence Shots from Videos	Dr.L.Latha /CSE & Dr.S.Rajini /CSE	Jeffrin Jacob J/CSE, Jino Rohit /CSE, Tamilselvan P /IT & Sneha Manivannan /IT	Feb 2022 to August 2022	Completed
8	Wallpaper/Image captioning using AI	Dr.K.R.Baskaran/CSE & Mr.P.K.Arjun/ CSE	Deekshith A/CSE, Joodith Hermmina.L /CSE, &Swathy K/IT	Feb 2022 to August 2022	Completed
9	Infra Services, Cloud Security	Fraud detection on Authentication server	Mr.G.Kanagar aj /CSE & Dr. S.Uma Ma heswari/CSE	Varshini.S /CSE Murugappan M/CSE &Azhagesh Waran/IT	Feb 2022 to August 2022	Complete dand Awarded Excellent worklet
10	Video Text Tracking	Mr. V.Senthilkumar /CSE & Dr.SyedAlifathima/CSE	Sadhasivam S /CSESwetha S /CSE Janani M /CSE & Aishwarya G /CSE	March 2022 to Jan 2023	Completed
11	MsgFlow Generationand Testcase IdentificationTool for 5G Debugging	Dr . P. Devaki HoD /CSE & Dr.S.Nithyaroo pa /CSE	Sudharsanan M/CSE, Sarvesvaran.M.S/ CSE, Vishnuvardan J/CSE & Manavallan/CSE	Feb 2022 to August 2022	Completed

Samsung Prism conducted a monthly review (Phase II) for 9 worklets through online mode on April 11th, 2022, Monday from 11.30AM to 5.20PM. Each worklet team presented their work progress and suggestion for enhancing the scope was provided by the industry mentors. The remaining 2 worklets' monthly review was conducted on April 18th, 2022, Monday from 3PM to 5PM. The following are a few glimpses of the April Monthly Connect review.

AI|ML Edge Detection Worklet team Presentation Screenshot

Network OAM | Log Analyser Worklet team Presentation Screenshot

Meeting with Samsung Experts at KCT:

- Mr. Suresh Kumar Narasimhaiah, General Manager, and Mr. Prasenjit Thakur, Deputy Manager, from Samsung Prism met with the Principal on March 31st, 2022 (Thursday), to discuss expanding Samsung Prism's scope with KCT.
- They also had an interactive session with the faculty members and students who are working on the PRISM worklets Phase II.

- **Focus on:**

➢ Offering internships and job placements to students based on their worklet performance.
➢ Curriculum design and FDP.
➢ Train faculty members.
➢ 2 credits may be included in the curriculum during the seventh semester.
➢ More Excellent Worklets at the End of Phase II

Glimpses of Samsung Prism Experts' Meeting with Principal Dr. D. Saravanan.

Glimpses of Samsung Prism Experts' Meeting with Faculty members and Students

Samsung Prism Project Phase III

Samsung Prism Project Phase III comprises of 11 real-time worklets for February – Dec 2023. Shortlisted students from third year CSE and M.E. CSE work on the assigned worklet under the guidance of a faculty mentor and industry mentor from SRI-B. Each team has to deliver the working solution for the problem statement with the given time frame. Periodic review and monthly assessments are conducted evaluate the progress. 26 CSE students and 12 faculty members are assigned to the Samsung Project Phase II worklets. The 6 worklets are listed below in the given table.

Samsung PRISM MoU Renewed for New Regulations for Next 5 Years

On April 26, 2023, Samsung PRISM signed an MoU with KCT for the next five years and collaborated with the department to identify areas of interest for professors tocollaborate with Samsung technology leaders.

Duration of Industry Problem PHASE III:Feb 2023 to Jan 2024.

S.No.	Worklet Title	Faculty Guide	Students	Duration	Domain Area
1	Enable RITM for Mask Segmentation	Dr.P.Devaki HoD/CSE & Mr.V.Senthilkumar/CSE	Devasenan M/CSE ,Vishaalini/CSE, Suryaprakash P/CSE,Karan J & Saifullah N/CSE	March 2023 to Dec 2023	CS/ Programming
2	Create Energy Calculation Tool forGoLang programming	Mr. Sathish.M/ISE& G.Krishnapriya /CSE	Thivya P/CSE , Subbu Lakshmi Sruthi MSR/CSE , Karthikeyan k/CSE& Dhanushkumar S G/CSE	March 2023 to Dec 2023	CS/ Programming
3	Create Energy Calculation Tool forPython programming	Dr. Rajini.S/CSE& Dr. D Chandrakala/CSE	Navina G A/ISE,Aswath V/ECE/, Sandhiya/ISE & Pranav Krishna K.S/ADS	March 2023 to Dec 2023	CS/ Programming
4	Create Energy Calculation Tool forRUST programming	Mr.Kanagaraj.GCSE& Ms.N.Jeba/CSE	Aadhavan R/CSE Geetha A/CSE NandanaS P/CSE & Aswin KumarK/CSE	March 2023 to Dec 2023	CS/ Programming
5	Dominant Hand and Current hand Detection	Dr.Latha.L/CSE & Dr.S.Nithya Roopa/CSE	Kavimani.S/CSE, Sindhanai Sirpy/CSEMythili Sekar Sriram/CSE & Hari Krishna Prasath S/CSE	March 2023 to Dec 2023	On-Device
6	Meme detection benchmarking on Indian data using ocr text, audio	Francis Jency X/CSE& Mr.V.Senthilkumar/CSE	Abhay Mohanan/CSE Allwin Kenneth P/CSE, Harshavardhan S V& Sudharsan R/CSE	March 2023 to Dec 2023	On-Device

Monthly Report: Samsung PRISM Program (March 2023 -

February 2024)Overview

Samsung PRISM (Preparing and Inspiring Student Minds) is a student program designed to provide students with opportunities to work on real-world projects under the guidance of faculty mentors, interact with Samsung's top technical experts, and gain hands-on experience in core technology domains. Phase III of the Samsung PRISM Project encompassed 7 real-time worklets from March 2023to February 2024.

Participation and Execution

Shortlisted students from the third and final years of KSI (CSE, IT, AIDS, and M.Tech Data Science) were selected to work on these worklets. Each team, under the supervision of both a faculty mentorand an industry mentor from SRI-B, was tasked with delivering a functional solution to the assigned problem statement within the stipulated timeframe.

Evaluation Process

To ensure continuous progress, periodic reviews and monthly assessments were conducted. The completion of Phase III saw the evaluation of 7 real-time worklets, with virtual internship certificatesawarded to participating students. An Excellence Award was presented to the standout team.

Excellence Award

Excellence Award Recipients KSI recognizes the exceptional performance of the team comprising:

- Faculty Mentors: Francis Jency X (AP II/CSE) and Senthil Kumar V (AP II/CSE)

- Student Team Members: Abhay Mohanan (CSE), Allwin Kenneth P (CSE), Harshavardhan S V(CSE), and Sudharsan R (CSE)

The team was honored with the Excellent Worklet Award for their project titled "Meme Detection Benchmarking on Indian Data Using OCR Text and Audio." This project spanned from March 2023 toFebruary 2024 and included a cash prize of Rs. 86,400/-.

Acknowledgments:

KSI applauds the contributions of:

- 29 students who successfully completed the virtual internships.
- 13 dedicated faculty mentors who provided invaluable support and guidance.

Their innovative solutions to the 7 real-time worklet problem statements have been commendable.

[Samsung PRISM] | BMS | Worklets evaluated | Excellent worklet and Bill of Supply

📎 📊 Excelle...0524.xlsx   📊 Excelle...0524.xlsx   📊 Excelle...0524.xlsx   🖼 WhatsAp...31.11.jpeg

Greetings from Samsung PRISM Team!

Please find below the evaluation results of worklets from last quarter.

Number of worklets evaluated-4

Excellent-1

Worklet	Description	College	Is Excellent
23OD06KCT	Dominant Hand and Current hand Detection	Kumaraguru College of Technology	N
23OD04KCT	meme detection benchmarking on Indian data using ocr text, audio	Kumaraguru College of Technology	Y
23IOT05KCT	3D Map View reconstruction of Smart Home using 2D images	Kumaraguru College of Technology	N
23RSG09KCT	Enable RITM for Mask Segmentation	Kumaraguru College of Technology	N

PFA Bill of supply for transfer of rewards money to the excellent team.

- Please take out the **print on college letterhead** & get it sealed & signed from college authorized person.

- Please share the hard copy with us on the following address at the earliest so that we can release the amount as soon as possible

KUMARAGURU
college of technology
character is life

Bill of Supply

Name of the College & Address	Name of the Customer & Address	Document No	Document Date
Ramanandha Adigalar Foundation	SAMSUNG R & D INSTITUTE INDIA - BANGALORE PRIVATE	PRISM/KCT/0524	14-May-24
Ward No.28,KCT Campus,Athipalayam Road,Chinnavedampatti,Coimbatore	SRIB No 2870, Phoenix Building, Bagmane Constellation Business Park Doddanakundi Circle Post, Outer Ring Rd, Doddanekundi, Marathahalli, Bengaluru, Karnataka 560037, India PAN: AAICS6290F	**HSN / SAC** NA	**Place of Supply** NA

Description		Currency (INR)
		86,400.00
Rewards for 1 Excellent Worklet(23OD04KCT)		**GST Tax - Amount**
		NA
		Total(INR)
		86,400.00

Amount in INR	Eight six thousand four hundred only

Bank Reference

Name & Address of the Bank

Karur Vysya Bank,KCT Campus,Saravanampatti

Account number	1245115000000014
IFSC	KVBL0001245
PAN	AAATR3640M

For Authorized Signatory

P.B.No.2034 Coimbatore - 641 049 Tamilnadu INDIA
Voice : +91 422 266 11 00 Fax : +91 422 266 94 06
info@kct.ac.in

2024-2025

The launch of Samsung PRISM 2024 at Kumaraguru School of Innovation (KSI) on 5th November 2024 was a resounding success, engaging around 150 students from KSI (CSE, IT, AIDS, MCA, and B.Sc. Data Science).Held in an interactive online platform, the event showcased the opportunities and vision of Samsung PRISM, a program designed to bridge the gap between academia and industry by providing students with real-world, cutting-edge technology projects.

Dr.Divya Vadlamudi, Associate Director - KSI, set the stage by sharing the overview of KSI students' participation in the earlier editions of Samsung PRISM, underscoring impactful projects and the valuable growth opportunities the program has provided for students.

Mr.Vishu Kumar, Head of Samsung PRISM program, followed with an engaging presentation about the 2024 edition, introducing Worklet projects and detailing the Centers of Excellence in Communications, Vision Intelligence, Voice Intelligence, On-Device AI, IoT, and Services, along with the onboarding process.

The session has effectively equipped students with the knowledge and enthusiasm they need as they prepare for the upcoming online test on 9th November 2024, marking the beginning of exciting project opportunities within Samsung PRISM.