PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY (AUTONOMOUS)
KANURU, VIJAYAWADA-7
INSTITUTION'S INNOVATION COUNCIL
Internal Hackathon

Report on Institute-Level Internal Hackathon for (SIH 2023) Selection

About the Event:

The Institute Innovation Council (IIC) of Prasad V Potluri Siddhartha Institute of Technology organized an INTERNAL HACKATHON on 19th and 20th of September, 2023 as per the guidelines of SMART INDIA HACKATHON 2023. The event was coordinated by Dr. V.Jagadish, Convener IIC and Dr. A.Haritha, Coordinator IIC and SPOC for SIH 2023.The event was also graced by the presence of Dr K Sivaji Babu, President IIC PVPSIT.

The event was hosted in the ECE e-classroom . This event held immense significance as a precursor to the Smart India Hackathon 2023 (SIH 2023). The primary objective of this hackathon was to identify and select the most promising teams that would represent our institution in the prestigious SIH 2023 finals. Students identified various problem statements in both Software and Hardware categories given in the SIH problem statements portal and came up with innovative and feasible solutions to the adopted problem statements. This event was more than just a competition; it was a platform for fostering innovation, encouraging collaboration, and nurturing problem-solving skills among our talented student community.

A total of 102 teams registered where in 97 teams participated with 558 students from the departments of Computer Science, Information Technology, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering participated in the event. 287 from Female category and 271 from male category took part in this event.

About the Problem Statement

A cornerstone of this hackathon was the careful selection of problem statements. These problem statements encompassed a wide spectrum of domains, ranging from technology and healthcare to social and environmental challenges. By doing so, the event aimed to challenge participating teams and inspire them to craft innovative, practical solutions to real-world problems. This diversity of problem statements showcased the versatility of our participants and their ability to tackle multifaceted issues.

Problem Statements

Some of the problem statements chosen by our students are

- AR-based application which helps visualize the complete house virtually at an early stage, aiding in cost estimation, planning, and timely completion.

- APP-Based Digital Audiometer.
- Cloudburst prediction system.
- Use of digital technology to calculate water footprints for different daily use items.
- "Citizens for Sustainability: Mobilizing Recycling in Localities."
- Domestic Waste Management.
- Student dropout analysis for school education.
- Chatbot to respond to text queries pertaining to various Acts, Rules, and Regulations applicable to Mining industries
- Online integrated platform for projects taken up by the students of various universities/colleges
- Online Blockchain based certificate generation and validation system for government organization
- Ideate and implement a system to enhance the quality of education in rural areas
- smart field automation: Designing a scarecrow equipped with an camera and bird or animal detection software to deter from entering into the fields.
- A device to monitor and predict emotional and psychological states in mentally disabled individuals. Assists in better care giving.
- A face extension tool that tracks on-screen hours, facial expressions, and some more features for websites and applications.
- Developing a software that can translate resource material and other texts from English to other Indian regional languages.
- Development of motion amplification video techniques for vibration analysis (1415)
- One stop solution for monitoring dairy plant energy consumption ,hygiene and packaging waste collection from consumers
- Robotics for inspection of abrasion/corrosion of underwater equipment/parts and future repair and maintenance
- Smart Toilets
- Innovative Solution for Reducing ATandC Losses due to Power Pilferage in Electrical Sector
- Effortless Load Carrying: The Smart Bag Solution
- To Design And Develop Eco friendly Air Chiller With Minimum Operating Cost
- To Design And Develop Food Adulteration Detecting Device
- Toys & Games (Challenges your creative minds to conceptualize and develop unique toys and games.)

Participating Teams

Our hackathon was made richer by the presence of diverse and enthusiastic teams with creative names that reflected their spirit of innovation:

- Project Facekey ,Agri Gains, TeleHealth Trailblazers, Plantino, CodeStars, Echo Detectors
- Navgatih, Trash to Triumph,Six Techs,The Wrecking Crew, Strangers, TechDice,Electric Charges

Judging Process

The judging process was designed to be robust and comprehensive, ensuring a fair assessment of all projects. Our esteemed jury panel, comprising experts from relevant domains, evaluated the solutions based on the following criteria:

Appropriateness to the problem statement

Innovativeness of the approach

Feasibility and practicality of the solution

Quality and efficiency of the implemented solution

Jury Panel

Our distinguished jury panel are individuals with a wealth of expertise and experience in their respective fields. Their insights and guidance added significant value to the evaluation process, and we are grateful for their participation.

Nominated Top Teams

After careful evaluation, we are pleased to announce the top-performing teams that will represent our institute in the SIH 2023 finals. These teams have demonstrated exceptional problem-solving abilities and innovation in their solutions. The Nominated Teams are

S.No	Problem Statement	Team Name	Student Name	Branch
1	Police Complaint Management System Using NFT(Non Fungible Token)	TEAM EMERGERS	Karthik Chilaka	CSE
			G. Hari Krishna	CSE
			B. Eswar Kumar	CSE
			G. Abhishikth	CSE
			E. Yamini Priya	CSE
			D. Kavya	CSE
2	AI based IT training system	AI Learning Catalysts	Jonnalagadda Dinesh	CSE
			Kadiyala Pavithra Sai	CSE
			Dasari Hitesh	CSE
			Kavuri Lakshmi Neha	CSE
			Musunuru Thanusri	CSE
			Kancharla Gowthami	CSE
3	Chatbot to respond to text	**Tech Titans**	Leela Prasad Kanakam	CSE

			K.Chaitanya	CSE
			B.Satya Sri Vathsa	CSE
	queries pertaining to various Acts, Rules, and Regulations applicable to Mining industries		Md.Shayista Tarannum	CSE
			K.Yasaswini	CSE
			Priya Suda	CSE
4	Robust human target detection and acquisition	Mavericks	Shree Harsha.G	CSE
			Koushik.G	CSE
			Neeharika.B	CSE
			L.V. Aditya .B	CSE
			Ch.Aakash Kumar	CSE
			Maheswar.A	CSE
5	Student Innovation	HexaHacks	I Rukmini Pravallika	CSE
			B.Meenakshi	CSE
			B.Usha	CSE
			G.Lalitha	CSE
			G.Sai Sravani	CSE
			Ch.Kavya Sri	CSE
6	A device to monitor and predict emotional and psychological states in mentally disabled individuals. Assists in better caregiving.	NeuroCoders	M.Hemanth Sai Suryam	CSE
			J.Pavan Kumar	CSE
			K.Shashank	CSE
			K.Sravya	CSE
			K.Varshini	CSE
			D.Y.V.S.Naga Sai	CSE
7	Revolutionizing authentication with a Graphical Password System to enhance security and user experience.	The Guardians	Mohammed Faizuddin	CSE
			Moturi Jyoshna	CSE
			Kolusu Harini	CSE
			Koganti Kaushik	CSE
			Manikonda Kumara Sai	CSE
			Kolla Bhargava Chowdary	CSE
8	Fake Social Media Profile detection and reporting	The Algorithm Angels	N. Akhila	CSE
			M. Hima Bindu	CSE
			N. Dhanu Sree	CSE
			P. Divya Teja	CSE
			B. Mownika	CSE
			K. Sushma Sree	CSE
9	A face extension tool that tracks on-screen hours, facial expressions, and some more features for websites and applications.	Project Facekey	Palla Shanmukh	CSE
			M.Venkata Varun	CSE
			M.Naga Anjali	CSE
			K.Sumathi	CSE
			K.Suma Venkata Vasanta	CSE

			Lakshmi	
			J.Sravani	CSE
10	AI Assisted Tele-medicine KIOSK for Rural India	**CodeStars**	Sangam Hemanth Kumar	CSE
			Vanapalli Sri Venkata Sai Krishna	CSE
			Bobbadi Rahul	CSE
			Pamula Naveen Kumar	CSE
			Gorrela Navya	CSE
			Gorrepati Meghana	CSE
11	E-waste management using smart dustbin and website integration	Trash to Truimph	T.Sirija	CSE
			P.Aswija	CSE
			P.Varshini	CSE
			V.Ujvala	CSE
			S.Neelima	CSE
			R.Meghana	CSE
12	AR based application which helps visualize the complete house virtually at an early stage, which can help in cost estimation, planning and completion of the house in time	Six Techs	T. Pallavi Reddy	CSE
			K.Lalitha	CSE
			P.Janani	CSE
			Y.Prasanth	CSE
			P.Grishmant	CSE
			G.Gowtham	CSE
13	Domestic Waste Management	CREP	Chinthalapati Sri Venkata Sai Subrahmanyam	CSE
			Sampathi Rao Sidharth	CSE
			Abdul Azeez	CSE
			Ramya Keerthi	CSD
			S.Krishna Kaushik	CSE
			Abdul Jabbar	CSE
14	Fake Social Media Profile detection and reporting	**ANTI-FAKE FORCE**	G.Harshini	CSE
			Kandi Anjusri	CSE
			Appana Harini	CSE
			Chitta Meghana	CSE
			Battu Roopa Sri	CSE
			Eda Lahari	CSE
15	To design a device to detect earthworms activity in soil	Soil Saviours	N.Chaitrika	CSE
			N.Triveni	CSE
			L.Keerthana	CSE
			N.B.Keerthi	CSE
			K.Bhavana	CSE
			K.Santhi Priya	CSE

16	A software that suggests drugs and formulations for a disease/pharmacological property based on the Ayurvedic classical books/Repositories.	Proxima Thinkers	N.Devisri	CSE
			L.Bhavana	CSE
			L.Swetha Sree	CSE
			K.Lalitha	CSE
			K.Gnana Sri	CSE
			M.Safiya	CSE
17	web or mobile based application for water supply management	**The Kingsman**	N.Sampreeth Chowdary	CSE
			P.Sai Advaith	CSE
			T.Revanth	CSE
			T.Yogitha Reddy	CSE
			M.Sree Lakshmi Sudeeksha	CSE
			K.Sai Lalith	CSE
18	Student Innovation	**GUIDO**	Syed Muhammad Afzal	CSE
			Y.Eswar Aditya	CSE
			Varanasi Vijaya Sai Vignesh	CSE
			Shaik Fakruddin	CSE
			Shaik Ruksana	CSE
			Thirandi Ramya	CSE
19	E-Waste Facility Locator	Innov8ive Minds	N.Naga Sai Nanditha	CSE
			K. Sowjanya	CSE
			M. Gayatri	CSE
			M. Gyathri Yadav	CSE
			N. Revathi	CSE
			N. Akshaya	CSE
20	A solution/idea that can boost current situation of tourism industries including hotels,travel and others	Code Warriors	K.Sravya	IT
			M.S.V.Aditya	IT
			Ch.Gayatri Ritika sri	IT
			A.Palkish	IT
			M.Gowthami	IT
			G.Vedhasree	IT
21	Real Time Vehicle Tracking System	Coders	P.Chaitanya	IT
			S.Suhel	IT
			Sanjana Dasari	IT
			N.Druthi sai	IT
			R.Lavanya	IT
			R.Harshith Sai	IT
22	Real-Time Vehicle Tracking system.	Bus Mate	Kella Deepak Kumar	IT
			Gunupudi Venkata Sai Kiran	IT
			Jampani Navya Lakshmi	IT
			Gongati Vyshnavi	IT
			Gedala Gayathri	IT

			Guntagani Abhilash	IT
23	Making career choices and AI based counselling accessible to every child at secondary level along with aptitude tests and detailed career paths	AI Architects	A.Manjunadh	IT
			Chalasani Dhanya Sri	IT
			A.Chaitanya	IT
			G.Sheeba Paul	IT
			k.Thanmayi	IT
			Doguparthi Sairam	IT
24	Smart toilets	ECE Tech Controllers	Akhila Salapati	ECE
			Fareed baba Shaik	ECE
			Praneeth Tirumalasetti	ECE
			Manasa Morla	ECE
			Saleem Shaik	ECE
			V Vardhan Babu	ECE
25	Developing a smart glass cleaning robot which can climb, clean and carry liquid cleaners	Mechrobs-2	U Sivananda	Mechanical
			N Manoj Kumar	Mechanical
			T Kiran Kumar	Mechanical
26	Effortless Load Carrying: The Smart Bag Solution	The Techie Converges	Munduri Veera Venkata Vinodh	Mechanical
			Nalluri Gopi Chand	
			Indupalli Rohith Sanjay	
			Anaparthi Jaya Krishna	
			Pamarthi Sai Durga Pradeep	
27	To Desigh And Develop Ecofriendly Air Chiller With Minimum Operating Cost	Mecheo Innovators	G PAVAN KUMAR	Mechanical
			K Bhuvan Chaitanya	
			K Leela Jayaram	
			A Surya	
			K Avinash	
28	Dehumidification Of Wet Rice Grains	Resolvers	P Nagendra Reddy	Mechanical
			P Sreenivas	
			Sd Khaja Mohiddin	
			T Mohana Vamsi Krishna	
			T Tagore	
29	"Enhancing Urban Lighting and Communication with Smart Solar-Powered Street Lights"	SmartConnectors	Tummala Durga	EEE
			V. Hemanth	EEE
			V. Rishitha naga suneetha	EEE
			V. M. Vikas	EEE
			V. Aravind	EEE
			Y. V. SKiran Raju	EEE
30	Machine Learning	The Tech Alliance	T.Hemanth	AIML
			D.Yaswanth kumar	
			Y.Tanooj Reddy	
			D.Shyam	

| | | | G.Naga Akshita | |
| | | | Y.Sree Hasa | |

Waiting List: 5

1	Use of Digital Technology in addressing non-revenue water	Aqua Slayers	B.Navya Sri	CSE
			D.Delisha	CSE
			A.Harshini	CSE
			Ch.Phanindra	EEE
			Sk.Afzul	EEE
			Gunashekar Siramdasu	EEE
2	"Citizens for Sustainability: Mobilizing Recycling in Localities"	PHOENIX	B. Toojitha Thanu Sri	CSE
			P. Lalith Chandra	CSD
			A, Naimisha	CSE
			G. Sravani	CSE
			M. Sri Hari	CSE
			G. Anjali	CSE
3	Development of a Digital Platform for multi-modal visibility of coalÂ transportation	The Squad	Umapavan Nallaganchu	IT
			Nithin Devanaboina	IT
			Sri charitha pagadala	IT
			Nerusu charu hasini	IT
			Hasitha sowmya tadepalli	IT
			Drakshayani pathikayala	IT
4	Self-identifying the mental health status and get guidance for support	Wellness Detectives	P.Satya kowmudi	ECE
			Mohana Iswarya	ECE
			Shaik Arshiya	ECE
			Pranavi Sri	ECE
5	Developing solutions, keeping in mind the need to enhance the primary sector of India - Agriculture and to manage and process our agriculture produce	VILLAGE BOBBATTU	Sigatapu Sai Sankar	IT
			Thalakaturi Naga Revathi	IT
			G Pavan Kumar	MECHANICAL
			K Bhuvan Chaitanya	MECHANICAL
			Kavyasri Kanaka	ECE
			Gandreti Jayanth	ECE

Judges Information

Details about our the judges:

Name of the Evaluation panel member: Dayana Chowdary Aravapalli

Designation of the Jury: Cloud platform engineer

Organization of the Jury: Accenture

Phone Number: 9963705528

Email: dayanachowdary99@gmail.com

Name of the Evaluation panel member: D Rahul Kiran

Designation of the Jury: Product and Operational Head of South India,

Organization of the Jury: JAANO

Name of the Evaluation panel member: Dr. V.Jagadish

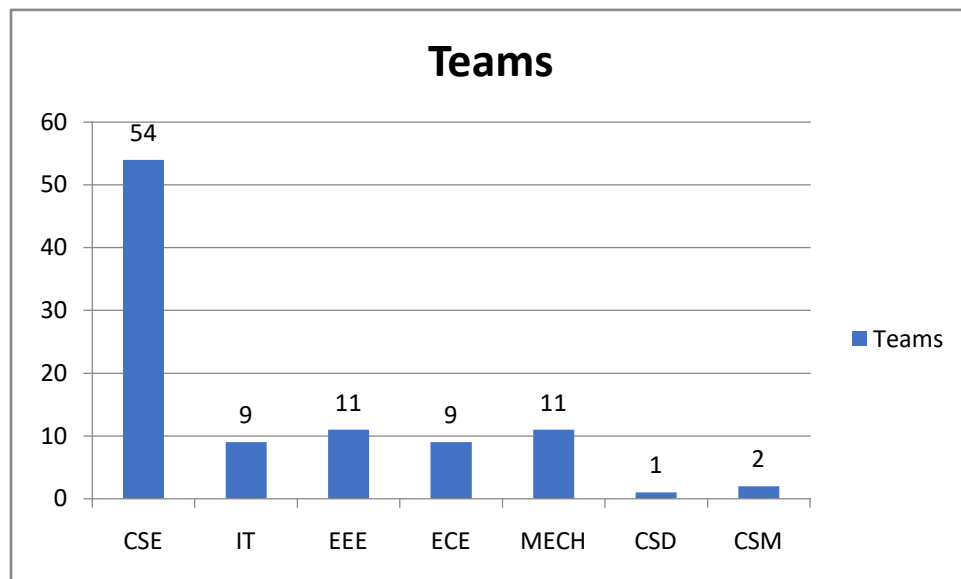Designation of the Jury: Associate Professor

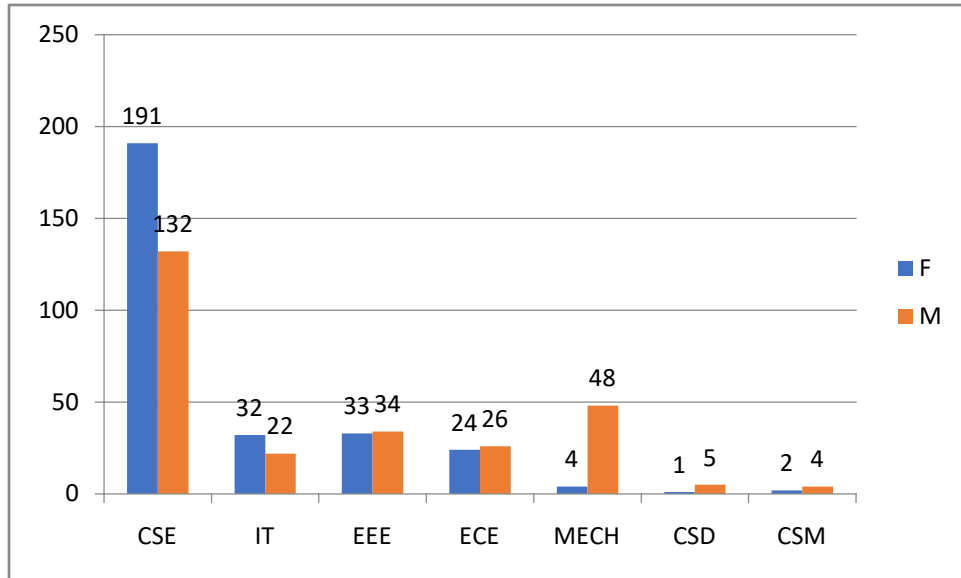Organization of the Jury: PVP Siddhartha Institute of Technology

Phone Number: +91 98453 73393

Email: jdvengala@gmail.com

Participation Statistics

A total of 97 teams participated with 558 students from all branches of engineering, where in 287 from Female category and 271 from male category took part in this event. This inclusive participation is a testament to the vibrant innovation culture within our institution.

Teams

Branch	Teams
CSE	54
IT	9
EEE	11
ECE	9
MECH	11
CSD	1
CSM	2

Instagram: https://www.instagram.com/p/CxdkdzFSma0/

Facebook: https://www.facebook.com/profile.php?id=100068938416034