



# Bhoj Reddy Engineering College for Women

(Sponsored by Sangam Laxmibai Vidyapeet, Accredited by NAAC with A Grade, Approved by AICTE and Affiliated to JNTUH)  
Vinayagar, IS Sadan Crossroads, Saidabad, Hyderabad – 500 059, Telangana. [www.brecw.ac.in](http://www.brecw.ac.in)



## A Report on Smart Minds Hackathon (Internal Competition) for SMART INDIA HACKATHON 2024

Date: 10<sup>th</sup> September 2024

### EVENT OVERVIEW

Smart India Hackathon (SIH) is a premier nationwide initiative designed to engage students in solving some of the most pressing challenges faced in everyday life. Launched to foster a culture of innovation and practical problem-solving, SIH provides a dynamic platform for students to develop and showcase their creative solutions to real-world problems. By encouraging participants to think critically and innovatively, the hackathon aims to bridge the gap between academic knowledge and practical application.

**Purpose:** A hackathon competition is an opportunity to engage employees in a time-bound competitive event that drives innovation, promotes skill development, imparts corporate culture and delivers crowdsourced solutions. The **Objectives** of an internal hackathon can include Innovation, Team building, Talent discovery, Skill development, Attracting talent, Logistics etc.

The Internal Hackathon of SIH 2024 was conducted by Innovation, Incubation and Entrepreneurship Cell at Bhoj Reddy Engineering College for Women, Hyderabad on 5th September 2024. The Institution identified Dr Samit Kumar Singh, Associate Professor, GBH, SIH Coordinator as Institution SPOC and Department in charges are also identified to facilitate students' participation for the event are Dr S Asha Kiranmai & Ms K Uma Rani -EEE, Dr P Sumalatha & Ms AVS Radhika -CSE, Dr P Suresh Kumar & Ms N Sony -ECE, Ms D Navaneetha & Ms K Madhuravani -IT, Ms Tasleema Noor -CSM and Ms B Prasanna -Management.

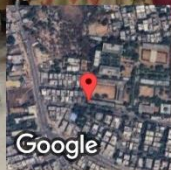
The event was inaugurated by the Principal Dr J Madhavan, who emphasized the importance of innovation and entrepreneurship in today's technology driven world. The Vice Principal G. Dayakar Reddy, Coordinator Dr Samit Kumar Singh, Jury members & HoDs from all departments and department in charges were involved in the event. A total of 60 teams registered out of which 50 teams (300 students) participated and presented 80 ideas reflecting the problem statements given by SIH. The students presented their innovative ideas in the form of Power Point presentations, showcasing their creativity, technical expertise and vision for a better future.

The ideas were judged by a panel of esteemed jury members, who evaluated the ideas based on their novelty, technical feasibility, and potential impact. After a rigorous evaluation process, 42 best teams

were selected. The event was a resounding success, witnessing an enthusiastic participation from students and inspiring students to think creatively and develop solutions for real world problems.

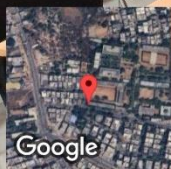
## EVENT PHOTOS





**Hyderabad, Telangana, India**  
Bhoj Reddy Engineering College For Women , Saidabad, Hyderabad, Telangana  
500059, India  
Lat 17.353559°  
Long 78.507899°  
05/09/24 10:38 AM GMT +05:30

 **GPS Map Camera**



**Hyderabad, Telangana, India**  
Bhoj Reddy Engineering College For Women , Saidabad, Hyderabad, Telangana  
500059, India  
Lat 17.353559°  
Long 78.507899°  
05/09/24 10:57 AM GMT +05:30

 **GPS Map Camera**



**Hyderabad, Telangana, India**  
Bhoj Reddy Engineering College For Women , Saidabad, Hyderabad, Telangana  
500059, India  
Lat 17.353559°  
Long 78.507899°  
05/09/24 10:19 AM GMT +05:30

 **GPS Map Camera**

## PARTICIPATING TEAMS' PICTURES





GPS Map Camera



Hyderabad, Telangana, India  
Bhoj Reddy Engineering College For Women , Saidabad, Hyderabad, Telangana  
500059, India  
Lat 17.353559°  
Long 78.507899°  
05/09/24 11:09 AM GMT +05:30



GPS Map Camera



Hyderabad, Telangana, India  
Bhoj Reddy Engineering College For Women , Saidabad, Hyderabad, Telangana  
500059, India  
Lat 17.353559°  
Long 78.507899°  
05/09/24 10:52 AM GMT +05:30



GPS Map Camera



Hyderabad, Telangana, India  
Bhoj Reddy Engineering College For Women , Saidabad, Hyderabad, Telangana  
500059, India  
Lat 17.353559°  
Long 78.507899°  
05/09/24 10:34 AM GMT +05:30

## JUDGING PROCESS

The Internal Hackathon judging process consists of the following stages:

1. Teams Registration: Students registered their teams with details of Theme, Problem Statement & ID, Team Leader, Team Members and Mentor by submitting through Google form provided.
2. Idea Presentation: Each team delivered a concise 10-minute Power Point presentation to the esteemed Jury Panel, effectively communicating their innovative ideas. The presentations covered:
  - i. Introduction: A clear overview of the project concept.
  - ii. Technical Approach: A detailed explanation of the technical methodology and solutions employed.
  - iii. Feasibility and Viability: An assessment of the project's practicality, potential roadblocks and strategies for overcoming them.
  - iv. Impacts and Benefits: A discussion of the anticipated outcomes, advantages, and positive consequences of the project
3. Evaluation of Ideas: Judges evaluated each idea based on the following criteria:

S No	Team Name	Theme/ Domain Bucket	Problem Statement	Innovation & Creativity (20 M)	Presentation (20 M)	Technology (10 M)	Total (50 M)	Remarks

4. Final Judgement: Judges shortlisted the top ideas based on the review.

After a thorough evaluation process, the judges selected 43 best teams out of 50 teams, and the same will be uploaded in SIH portal. The active participation of 50 teams and the valuable insights provided by the esteemed panel of judges contributed to the success of this Internal SIH event. It not only encouraged innovation but also helped participants refine their skills within a competitive and supportive environment.

## JURY PANEL DETAILS

Five judges acted as jury members for selecting the best ideas from the Internal Hackathon. The details of jury members are given below:

S No	Name of the Jury Member	Designation & Department	Organization	Mobile Number	E-mail ID
1	Dr B Raveendranadh Singh	Professor, CSE	Bhoj Reddy Engineering College for Women, Hyderabad, Telangana	9866089801	raveendranadh.singh@slv-edu.in
2	Dr M Sandhya Rani	Associate Professor, IT	Bhoj Reddy Engineering College for Women, Hyderabad, Telangana	9866520013	sandhyarani.medi@slv-edu.in
3	Dr M Seshu Bhavani	Associate Professor, CSE (AIML)	Bhoj Reddy Engineering College for Women, Hyderabad, Telangana	9490912985	seshubhavani.mallampati@slv-edu.in
4	Ms B Jyothsna	Associate Professor, ECE	Bhoj Reddy Engineering College for Women, Hyderabad, Telangana	9347535453	jyothsna.bhagirathi@slv-edu.in
5	Ms S Deepti	Associate Professor, EEE	Bhoj Reddy Engineering College for Women, Hyderabad, Telangana	9866142621	deepti.saudari@slv-edu.in



## NOMINATED TOP TEAMS

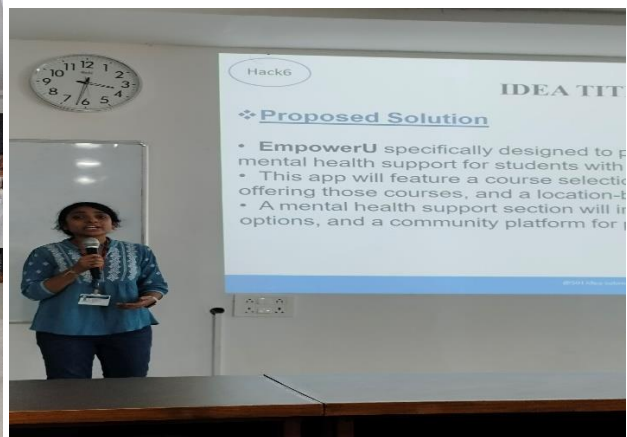
S No	Team Name	Problem Statement ID	Theme / Domain Bucket	Problem Statement
1	Pixel Pioneers	SIH 1627	MedTech / BioTech / HealthTech	Drug Inventory and supply chain Tracking system
		SIH 1534	Transportation & Logistics	Pothole Detection System
2	Calamity Coders	SIH1587	Disaster Management	Student Innovation
3	Codevengers	SIH1650	Disaster Management	Early Warnings system for Glacial Lake Outburst Floods (GLOFs)
		SIH1758	Transportation & Logistics	AI-Powered Delivery Post Office Identification System
4	Sparkle Titans	SIH 1658	Transportation & Logistics	Development of a versatile and fast algorithm for optimal ship routing
5	Visitor Visionaries	SIH1648	Travel and Tourism	Online Chatbot based ticketing system
6	Team Mac	SIH1629	Smart Education	Freelancing Platform
7	Stalwarts	SIH1722	Smart Education	Gamification of Anti-doping Information
8	Cipher Crew	SIH1671	Smart Automation	Developing a AI powered liveness detection for Women safety
9	Tech Army	SIH1637	Agriculture, foodtech and rural development	Mobile App for Direct Market Access for Farmers
10	The Techies!!	SIH1637	Agriculture, foodtech and rural development	Mobile App for Direct Market Access for Farmers
11	InnovaFEM	SIH1655	Smart Automation	Detecting oil spills at marine environment using Automatic Identification System (AIS) and satellite datasets
		SIH1647	Agriculture, foodtech and rural development	Development of AI-ML based models for predicting prices of agri-horticultural commodities such as pulses and vegetable (onion, potato, onion)
12	Hack Avengers	SIH1588	Miscellaneous	Student Innovation
13	Technoblades	SIH1639	Agriculture, FoodTech & Rural Development	Sustainable Fertilizer Usage Optimizer for Higher Yield
		SIH1699	Miscellaneous	Let's Learn Constitution in a Simpler Manner-Institution Perspective
14	Logic legends	SIH1604	Smart Automation	Conversational Image Recognition Chatbot
15	Fleet Management	SIH1612	Transportation & Logistics Management	Automated Bus Scheduling and Route Management System for Delhi Transport Corporation
16	Flock together	SIH1673	Agriculture, FoodTech & Rural Development	Farmers disease diagnostic /reporting tool-mobile portal AI Based
17	CoDetectives	SIH1757	Transportation & Logistics Management	Building a community of Indian Diaspora for meeting their needs of Indian Products through India Post by connecting PIOs with local sellers / MSME / Artisans
		SIH1707	Miscellaneous	Development of a Geolocation-Based Attendance tracking Mobile Application
18	The Innovators	SIH1599	Fitness&Sports	Student Innovation
19	Hack6	SIH1586	Smart Education	Student Innovation
20	Ruby	SIH1647	Agriculture, Food Tech & Rural development	Development of AI-ML based models for predicting prices of agri-horticultural commodities such as pulses and vegetable (onion, potato, onion)
21	The Spartans	SIH1531	Travel and Tourism	Student Innovation
22	Hacking Jacks	SIH1598	Heritage and Culture	Student Innovation

23	FarmS	SIH1637	Agriculture, Food tech and Rural development	Mobile App for direct market access for farmer's
		SIH1605	Miscellaneous	Womens safety analytics -protecting women from safety threats
24	Bug Bashers	SIH1694	Smart Automation	Real-time Ganga river water quality forecasting using AI- enabled DSS, satellite data, IoT, and dynamic models
25	Tech Chats	SIH1631	smart education	AI-Powered Student Assistance Chatbot for Department of Technical Education, Government of Rajasthan.
		SIH1620	MedTech / BioTech / HealthTech	Queuing models in OPDs/ availability of beds/ admission of patients. A hospital based solution is ideal which can be integrated with city wide module
26	Prodigies	SIH1591	Travel and Tourism	Student Innovation
27	Real-Time Rangers	SIH1527	"Disaster Management	Student Innovation
		SIH1540	Smart Automation"	Student Innovation
28	The Titans	SIH1648	"Smart Automation	Online Chatbot based ticketing system
29	Team Innovator's	SIH1588	"	Student Innovation
		SIH1597	Travel and Tourism	Student Innovation
30	Safefarm Guardians	SIH1536	Smart Education	Student Innovation
		SIH1535	MedTech / BioTech / HealthTech	Student Innovation
31	Smart Sentinels	SIH1532	Agriculture, Food tech and Rural development	Student Innovation
		SIH1540	Smart Vehicles	Student Innovation
32	TechShield Innovators	SIH1540	Clean and Green Technology	Student Innovation
		SIH1536	Smart Automation	Student Innovation
33	Techno Geeks	SIH1564	Smart Automation	Automatic Road Extraction and alert generation for new roads
		SIH1567	Agriculture, Food tech and Rural development	Grey water Management (GWM) Designing low cost testing kits capable of detecting bacterial, faecal and microbial Contaminants in ground water
34	Helpful Hands	SIH1596	Space Technology	Student Innovation
35	Agricola	SIH1638	Clean and Green Technology	AI-Driven crop Disease prediction and management system
36	Dro-Bots	SIH1533	Agriculture, Food tech and Rural development	Student Innovation
37	Circuit blasters	SIH1530	Agriculture, food tech and Rural development	Student Innovation
38	Digital Dreamers	SIH1637	Robotics and Drones	Mobile App for Direct Market Access for farmers
39	Code Crafters	SIH1588	Renewable/Sustainable Energy	Student Innovation
		SIH1528	Agriculture, Food tech and Rural development	Student Innovation
40	The Digital DreamTeam	SIH1775	Miscellaneous	Fake social media accounts and their detection
		SIH1588	Miscellaneous	Student Innovation
41	Six Fix	SIH1621	Blockchain& Cybersecurity	Online Testing and Monitoring of Quality of Medicines and Consumables
42	Electra Explorers	SIH1534	Miscellaneous	Transportation and logistics Management
43	Circuit Blasters	SIH1530	Renewable/Sustainable Energy	Student Innovation

## JUDGES' INFORMATION

The details of the judges for the Internal Hackathon are given below:

S No	Name of the Judge	Designation & Department	Organization	Exp.	Areas of Expertise
1	Dr B Raveendranadh Singh	Professor, CSE	Bhoj Reddy Engineering College for Women, Hyderabad, Telangana	29 Years	Data Science, Cloud Computing, Software Engineering
2	Dr M Sandhya Rani	Associate Professor, IT	Bhoj Reddy Engineering College for Women, Hyderabad, Telangana	20 Years	Network security
3	Dr M Seshu Bhavani	Associate Professor, CSE (AIML)	Bhoj Reddy Engineering College for Women, Hyderabad, Telangana	13 Years	Cyber Security, Image Processing, Machine Learning, Deep Learning
4	Ms B Jyothsna	Associate Professor, ECE	Bhoj Reddy Engineering College for Women, Hyderabad, Telangana	24 Years	Microwave, Digital Systems, Wireless Networks, Embedded Systems and IoT
5	Ms S Deepti	Associate Professor, EEE	Bhoj Reddy Engineering College for Women, Hyderabad, Telangana	20 Years	Power Systems and Reliability



## TOTAL PARTICIPATING TEAMS & STUDENTS

The Internal Hackathon Competition saw an overwhelming response from students, with an impressive 60 teams out of which only 50 teams consisting of 300 students (all Female), eagerly presenting their innovative ideas. The following teams have participated in Internal Hackathon.

S No	Team Name	Team Leader		Problem Statement ID	Problem Statement
		Student Name	Student Roll No		
1	Pixel Pioneers	Uppala Sai Anjani	21321A1279	SIH 1627	Drug Inventory and supply chain Tracking system
				SIH 1534	Pothole Detection System
2	Calamity Coders	Likitha Konam	22321A1242	SIH1587	Student Innovation
3	Codevengers	K Eesha	22321A1231	SIH1650	Early Warnings system for Glacial Lake Outburst Floods (GLOFs)
				SIH1758	AI-Powered Delivery Post Office Identification System
4	Sparkle Titans	P Satya Pravallika	21321A1291	SIH 1658	Development of a versatile and fast algorithm for optimal ship routing
5	Visitor Visionaries	Saanvi Macha	22321A1275	SIH1648	Online Chatbot based ticketing system
6	Team Mac	Biradar Poonam	23325A0507	SIH1629	Freelancing Platform
7	Spectra Squad	B Anusha	23321A0514	SIH1586	Student Innovation
8	Stalwarts	Jambula Hasini Reddy	22321A0531	SIH1722	Gamification of Anti-doping Information
9	Cipher Crew	NV Sriraga Sathvika	22321A05A5	SIH1671	Developing a AI powered liveness detection for Women safety
10	Tech Army	Thotapally Kalyani	22321A0538	SIH1637	Mobile App for Direct Market Access for Farmers
11	The Techies!!	P Sravika	23321A05A1	SIH1637	Mobile App for Direct Market Access for Farmers
12	InnovaFEM	Kondour Praharsha	22321A0569	SIH1655	Detecting oil spills at marine environment using Automatic Identification System (AIS) and satellite datasets
				SIH1647	Development of AI-ML based models for predicting prices of agri-horticultural commodities such as pulses and vegetable (onion, potato, onion)
13	Hack Avengers	Kandadi Saanvi Reddy	22321A0581	SIH1588	Student Innovation
14	Technoblades	Ameera Mahnoor	22321A0509	SIH1639	Sustainable Fertilizer Usage Optimizer for Higher Yield
				SIH1699	Let's Learn Constitution in a Simpler Manner-Institution Perspective

S No	Team Name	Team Leader		Problem Statement ID	Problem Statement
		Student Name	Student Roll No		
15	Logic legends	V Raja Sri	22321A0573	SIH1604	Conversational Image Recognition Chatbot
16	Brainy Bunch	R Anjali	23321A0407	SIH1596	Student Innovation
17	Fusion Forge	V Keethi	24325A0212	SIH1540	Student Innovation
18	Fleet Management	Abhignya Gitti	22321A0501	SIH1612	Automated Bus Scheduling and Route Management System for Delhi Transport Corporation
19	Flock together	Gouthareddy Siri	23321A0595	SIH1673	Farmers disease diagnostic /reporting tool-mobile portal AI Based
20	CoDetectives	P Sirignya Reddy	22321A1299	SIH1757	Building a community of Indian Diaspora for meeting their needs of Indian Products through India Post by connecting PIOs with local sellers / MSME / Artisans
				SIH1707	Development of a Geolocation-Based Attendance tracking Mobile Application
21	The Innovators	Vanampally Sahithi	22321A6637	SIH1599	Student Innovation
22	Hack6	Pranathi VJS	23321A6620	SIH1586	Student Innovation
23	Ruby	Nalli Tareni	22321A6655	SIH1647	Development of AI-ML based models for predicting prices of agri-horticultural commodities such as pulses and vegetable (onion, potato, onion)
24	Engineering Edge	P Prashanthi	23321A0572	SIH1586	Student Innovation
25	The Spartans	Likhitha Kambampati	23321A6631	SIH1531	Student Innovation
26	Hacking Jacks	P Varshitha	22321A05C1	SIH1598	Student Innovation
27	FarmS	Anupama Reddy	22321A0411	SIH1637	Mobile App for direct market access for farmer's
				SIH1605	Womens safety analytics -protecting women from safety threats
28	Bug Bashers	L Manasa	21321A0465	SIH1694	Real-time Ganga river water quality forecasting using AI- enabled DSS, satellite data, lot, and dynamic models
29	Tech Chats	N Vishalakshi	22321A04C4	SIH1631	AI-Powered Student Assistance Chatbot for Department of Technical Education, Government of Rajasthan.
				SIH1620	Queuing models in OPDs/ availability of beds/ admission of patients. A hospital based solution is ideal which can be integrated with city wide module
30	Prodigies	R Sriharika	22321A0226	SIH1591	Student Innovation

S No	Team Name	Team Leader		Problem Statement ID	Problem Statement
		Student Name	Student Roll No		
31	Code Crusaders	K Bhavya Sri	23321A1211	SIH1587	Student Innovation
32	Real-Time Rangers	G Pavani	21321A0216	SIH1527	Student Innovation
				SIH1540	Student Innovation
33	The Titans	Vineela Katla	22321A05C4	SIH1648	Online Chatbot based ticketing system
34	Team Innovator's	J Srilekha	22325A0512	SIH1588	Student Innovation
				SIH1597	Student Innovation
35	Safefarm Guardians	Mandha Prasanna Reddy	21321A0219	SIH1536	Student Innovation
				SIH1535	Student Innovation
36	Smart Sentinels	A Ashwitha Reddy	21321A0204	SIH1532	Student Innovation
				SIH1540	Student Innovation
37	TechShield Innovators	G Sagarika	21321A0224	SIH1540	Student Innovation
				SIH1536	Student Innovation
38	Techno Geeks	N Tharuni	21321A04H6	SIH1564	Automatic Road Extraction and alert generation for new roads
				SIH1567	Grey water Management (GWM) Designing low cost testing kits capable of detecting bacterial, faecal and microbial Contaminants in ground water
39	Helpful Hands	Biyyala Keerthi	23321A0441	SIH1596	Student Innovation
40	Nexus Nomads	P Pooja	23321A6638	SIH1586	Student Innovation
41	Agricola	Daram Anujna	23321A0409	SIH1638	AI-Driven crop Disease prediction and management system
42	Dro-Bots	Anam Mehnoor	23321A0406	SIH1533	Student Innovation
43	Circuit blasters	A Manogna	22321A0453	SIH1530	Student Innovation
44	Spark Squad	K Vaishnavi	23321A0235	SIH1588	Student Innovation
45	Digital Dreamers	syeda qathija marriya	23321A04B6	SIH1637	Mobile App for Direct Market Access for farmers
46	Code Crafters	Ballure Suprathika	21321A05B5	SIH1588	Student Innovation
				SIH1528	Student Innovation
47	The Digital DreamTeam	G Spurthy	21321A05A1	SIH1775	Fake social media accounts and their detection
				SIH1588	Student Innovation
48	Six Fix	Ambika Chowdary	22325A0505	SIH1621	Online Testing and Monitoring of Quality of Medicines and Consumables
49	Electra Explorers	K Jyothsna	22321A0207	SIH1534	Transportation and logistics Management
50	Circuit Blasters	A Manogna	22321A0453	SIH1530	Student Innovation

## NEWS ARTICLES

The news article highlighting the success of Internal Hackathon held at college has been published online in the esteemed Hindu Dayashankar newspaper, and can be accessed at the following link:

<https://hindudayashankar.com/education/bhoj-reddy-engineering-college-organises-campus-hackathon/>



EDUCATION, GALLERY, KARIMNAGAR, NATIONAL, TELANGANA

### Bhoj Reddy Engineering College organises Campus Hackathon

Posted by admin on September 5, 2024



HYDERABAD, SEPTEMBER 05, 2024: Bhoj Reddy Engineering College for Women, Hyderabad, organised a Campus Hackathon Competition as part of the preliminary phase of the Smart India Hackathon (SIH) 2024 conducted by the Ministry of HRD on Thursday (September 5, 2024) to nominate the selected teams to participate in the Smart India Hackathon (SIH) 2024.

SIH is an annual nationwide initiative in India aimed at providing students with a platform to solve real-world problems using technology and innovation. In this event, 50 teams presented 60 ideas for the respective problem statements.

Principal Dr. J Madhavan, Vice Principal G. Dayakar Reddy, Coordinator Dr. Samit Kumar Singh, Jury members from all departments, and department coordinators were involved in the event.

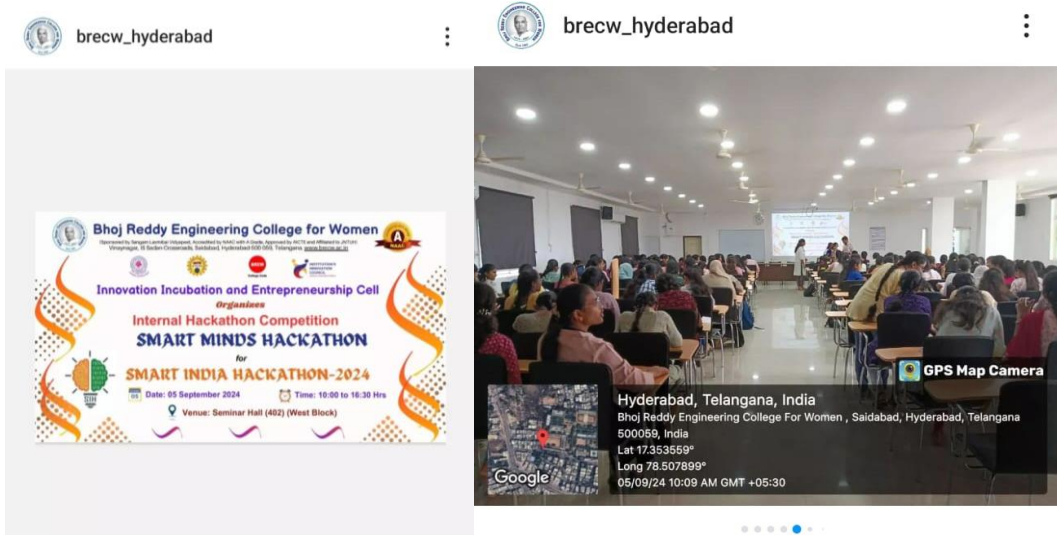


# SOCIAL MEDIA PROMOTION

Facebook link: <https://www.facebook.com/share/p/3X22qJZVh1jXtczw/?mibextid=oFDknk>

Twitter Link: [https://x.com/brecw\\_hyderabad?t=BtcTLH1b-kMtulLmB2pFgw&s=09](https://x.com/brecw_hyderabad?t=BtcTLH1b-kMtulLmB2pFgw&s=09)

Instagram Link: [https://www.instagram.com/brecw\\_hyderabad?igsh=N2Nyc2o0ZGNhZjRx](https://www.instagram.com/brecw_hyderabad?igsh=N2Nyc2o0ZGNhZjRx)



4 likes

brecw\_hyderabad Smart India internal hackathon @BRECW #SIH2024 #smartindiahackathon2024 10 minutes ago

20 likes

brecw\_hyderabad Successfully Conducted SIH internal hackathon @BRECW... more 10 minutes ago

**brecw hyderabad** 35 posts Follow

@brecw\_hyderabad

Joined November 2022

2 Following 18 Followers

Not followed by anyone you're following

Posts Replies Media

**brecw hyderabad** @brecw\_hydera... · 9s  
SIH internal hackathon successfully conducted @brecw #sih2024 #smartindiahackthn2024

**brecw\_hyderabad**

3/10

20 likes

brecw\_hyderabad Successfully Conducted SIH internal hackathon @BRECW... more 10 minutes ago

**brecw hyderabad** @brecw\_hydera... · 1d  
Smart India internal hackathon @BRECW

**brecw\_hyderabad**

Dr Samit Kumar Singh  
SPOC- SIH 2024

Dr J Madhavan  
Principal