Report on College Hackathon (Idea Presentation Round)
Venue: St. Bede's College – Computer Lab 1
Date: 12 December 2025

Introduction

A College Hackathon (Idea Presentation Round) was organized by the Hackathon and Ideation Cell of St. Bede's College on 12 December 2025 within the college campus. The event aimed to provide a platform for students to present their innovative ideas and demonstrate their creativity through structured presentations.

The hackathon focused on encouraging students to think critically and propose solutions to real-world problems using technology and innovation. A total of 6 teams participated in the event and presented their ideas in the form of PowerPoint Presentations (PPTs).

Objective

The main objectives of organizing the event were:
• To promote innovation and creative thinking among students.
• To encourage students to present their ideas in a structured and professional manner.
• To provide a platform for showcasing technological and problem-solving skills.
• To prepare students for further stages of the hackathon, including prototype development.
• To enhance communication and presentation skills.

Description

The event was conducted in Computer Lab 1, where all participating teams presented their ideas before the Convener and Co-Convener.

Each team delivered a PowerPoint Presentation explaining their hackathon idea, including the problem statement, proposed solution, and expected impact. The presentations were followed by an interactive question-and-answer (Q&A) round, where the panel evaluated the depth of understanding, feasibility, and innovation of each idea.

The session was highly engaging, with students confidently presenting their concepts and responding to queries.

Evaluation and Selection Process:

The ideas presented by the teams were carefully evaluated by the Convener and Co-Convener on the basis of:

• Innovation and originality
• Clarity of idea and problem statement
• Feasibility of implementation
• Presentation skills
• Ability to respond to questions

Based on the evaluation and Q&A round, selected ideas were shortlisted for the next phase of the hackathon, which involves prototype development.

Outcome

The event witnessed enthusiastic participation from students, with all teams actively engaging in presenting their ideas. Students demonstrated creativity, confidence, and technical understanding while explaining their concepts. The Q&A session helped participants gain deeper insights into their ideas and identify areas for improvement. It also enhanced their ability to think critically and respond effectively under evaluation. It provided students with an excellent opportunity to showcase their ideas and receive valuable feedback from the evaluators. The event successfully laid the foundation for the next stage of the hackathon by shortlisting promising ideas for prototype development. Overall, the initiative encouraged innovation, learning, and active participation among students**.**

Brochure

Students presenting ideas and giving presentations.

Report on Intercollege Hackathon Organized on National Science Day
Venue: St. Bede's College – Seminar Hall
Date: 28 February 2026
Occasion: National Science Day

Introduction

An Intercollege Hackathon was successfully organized by the Hackathon and Ideation Cell of St. Bede's College on **28 February 2026** to celebrate National Science Day. The event aimed to promote innovation, scientific thinking, and technological creativity among students from various colleges.

National Science Day is celebrated every year to honor the discovery of the **Raman Effect** by the eminent physicist C. V. Raman. The hackathon reflected the spirit of scientific curiosity and encouraged students to apply technology to solve real-world problems.

A total of 12 teams from different colleges participated in the event. Students presented innovative solutions including software applications, IoT devices, robotics models, and smart environmental systems. The event provided a collaborative platform where young innovators could brainstorm ideas, develop prototypes, and present their solutions before an expert judging panel.

Objectives of the Hackathon

The main objectives of organizing the Intercollege Hackathon were:

- To promote innovation and creative problem-solving among students.
- To encourage the practical application of scientific and technological knowledge.
- To provide a platform for students to present their ideas and prototypes.
- To promote interdisciplinary learning through technology-based solutions.
- To develop teamwork, technical, and presentation skills among participants.
- To inspire students to create solutions for real-world challenges in areas such as environment, agriculture, disaster management, tourism, and smart infrastructure.

DESCRIPTION

The hackathon began with an introductory session in the **Seminar Hall**, where participants were briefed about the rules, judging criteria, and event schedule. Students then presented their innovative projects addressing different real-world issues.

Throughout the event, the atmosphere was filled with enthusiasm as participants demonstrated their models, explained their coding logic, displayed hardware prototypes, and presented their research ideas.

The projects were evaluated by an esteemed panel of judges Dr.Nikhil Sharma and Dr.Tarun Sharma

The evaluation was based on several criteria including:

- Innovation and originality
- Technical implementation
- Practical feasibility
- Functionality of the model
- Presentation and explanation

Participating Teams and Project Objectives

Team 1 – Air Filtration Using Carbon Adsorption

Participant: Amit Kumar
College: Rajiv Gandhi Government Degree College

Objectives:

- To demonstrate the principle of carbon adsorption for removing pollutants from air.
- To design a cost-effective and eco-friendly air purification system suitable for indoor environments.
- To create awareness about air pollution control and sustainable environmental solutions.

Team 2 – SmartRescue: AI-Powered Disaster Risk Intelligence System

Participants: Anku and Srishti Thakur
College: Rajiv Gandhi Government Degree College

Objectives:

- To develop an AI-powered disaster intelligence system for faster emergency response.
- To provide safe route navigation during disasters by identifying blocked or risky roads.
- To integrate weather data, terrain information, and historical disaster records to predict potential risks.
- To reduce confusion during the first critical minutes after a disaster.

Team 3 – ZENO: The Smart Agriculture Robot

Participant: Praveen Mehta
College: Centre of Excellence Government College Sanjauli

Objectives:

- To reduce manual labour in agriculture through robotic automation.
- To minimize farmers' exposure to harmful agricultural chemicals.
- To provide a low-cost smart farming solution suitable for small farmers.
- To promote affordable agricultural automation.

Team 4 – Chaos-Based Cryptographic Framework via IoT-Enabled Entropy Acquisition

Participant: Sam Jasper
College: Centre of Excellence Government College Sanjauli

Objectives:

- To explore the use of micro-scale stochastic particle dynamics as a source of entropy.
- To generate secure cryptographic keys using physical randomness.
- To integrate the system with IoT-based data acquisition technology for improved cybersecurity applications.

Team 5 – HimaFlow: Smart Tourism & Cultural Discovery Platform

Participants: Panav Sharma and Kritika
College: Rajiv Gandhi Government Degree College

Objectives:

- To help tourists discover destinations using live crowd and parking information.

- To provide budget planning tools for travel expenses.
- To create a digital platform for local artisans, guides, and homestays.
- To promote Himachali culture and festivals to tourists.

Team 6 – Farm Connect: Farm-to-Consumer Direct Marketplace

Participants: Kartik Saini and Suraj Chauhan
College: Rajiv Gandhi Government Degree College Kotshera

Objectives:

- To eliminate middlemen in the agricultural supply chain.
- To connect farmers directly with restaurants, vendors, and households.
- To provide transparent pricing and fair-trade opportunities.
- To develop a web-based marketplace for farmers in Himachal Pradesh

Team 7 – Adaptive Tourist Traffic & Parking Management System

Participant: Prikshit Sharma
College: Centre of Excellence Government College Sanjauli

Objectives:

- To develop a smart system for managing tourist traffic and parking.
- To automatically allocate parking based on available capacity.
- To monitor live crowd density in tourist areas.
- To improve urban mobility and reduce congestion in hill stations.

Team 8 – Road Guardian: IoT-Enabled Smart Pothole Detection Rover

Participants: Aditya Kumar and Rudra Pratap Singh
College: Jaypee University of Information Technology

Objectives:

- To develop an IoT-based autonomous rover for road inspection.
- To detect potholes automatically using AI technology.
- To reduce road accidents through real-time alerts and monitoring systems.
- To support smart city road maintenance systems.

Team 9 – Earthquake Detector

Participants: Jaanvi Singh

College: Students of St. Bede's College

Objectives:

- To develop a sensor-based earthquake detection system.
- To provide early alerts for seismic activities.
- To improve safety and disaster preparedness in earthquake-prone regions.

Team 10 – Electric Dustbin with Sensor Technology

Participants: Students of St. Bede's College

Objectives:

- To design a smart dustbin using sensor technology.
- To promote automatic waste disposal without physical contact.
- To encourage cleanliness and hygienic waste management in public spaces.

OUTCOME:

The ideas and prototypes were carefully evaluated by the judges on the basis of **innovation, feasibility, functionality, and presentation quality**.

The winning teams were awarded:

First Prize – Praveen Mehta (Rs. 10000)
Second Prize – Parikshit Sharma (Rs. 5000)
Third Prize – Tammana Sharma, Yakshita Sharma (Rs. 3000)

Student Participation

The Intercollege Hackathon witnessed enthusiastic participation from students representing different academic backgrounds including computer science, engineering, and applied sciences. Participants actively engaged in brainstorming sessions, collaborative discussions, and technical demonstrations throughout the event.

Students showcased not only their technical knowledge but also their creativity and problem-solving abilities while presenting their projects. Many teams worked on innovative solutions addressing real-life challenges such as disaster management, sustainable agriculture, smart tourism, and environmental protection.

The hackathon provided an opportunity for participants to learn from one another by exchanging ideas, discussing technologies, and exploring different approaches to solving problems. Students also gained valuable experience in presenting their projects before judges and explaining the technical aspects of their models.

Overall, the event helped students enhance their critical thinking, teamwork, communication skills, and practical understanding of technology-based innovation.

Impact And Feedback From Participants

The hackathon created a highly motivating and intellectually stimulating environment for the participants. Students expressed great enthusiasm while presenting their ideas and appreciated the opportunity to showcase their innovative work on a prestigious platform.

Many participants shared that the event helped them gain confidence in presenting technical projects and interacting with experts. The presence of judges and mentors provided constructive feedback that helped students understand the strengths and areas of improvement in their projects.

The event also encouraged students to think beyond theoretical knowledge and focus on building practical solutions for societal problems. Participants appreciated the platform provided by the Hackathon and Ideation Cell of St. Bede's College for promoting innovation and interdisciplinary collaboration.

The positive feedback from students and faculty members highlighted the success of the event and emphasized the importance of organizing such hackathons in the future to nurture young innovators.

Conclusion

The Intercollege Hackathon organized at St. Bede's College on National Science Day was a great success. The event provided students with a valuable opportunity to demonstrate their technical knowledge, creativity, and innovation.

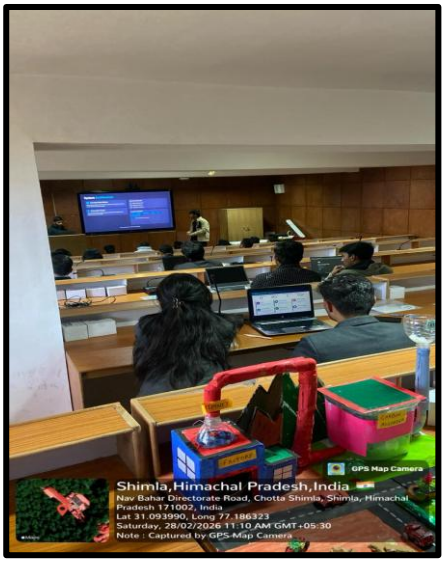
The diverse range of projects presented solutions to real-world challenges in fields such as environmental protection, disaster management, agriculture, tourism, cybersecurity, and smart city development.

The hackathon not only encouraged scientific thinking and technological innovation but also strengthened collaboration among students from different institutions. Overall, the event successfully fulfilled its aim of inspiring young minds to explore science and technology for the betterment of society.


St. Bede's College, Shimla
NAAC Re-accredited A Grade
Hackathon & Ideation Cell
Under the Aegis of IQAC
is organizing
IDEATE & INNOVATE
TECH FEST-2026
Theme Areas
IOT
AR/VR
Robotics
Drone Technology
Tech Enabled Tourism
Tech Enabled Agriculture
Disaster Management
Bee Culture Management
28th February, 2026
10:00 AM Onwards
COLLEGE AUDITORIUM
PRIZES
1st Rs. 10,000
2nd Rs. 7,000
3rd Rs. 5,000
Plus upto:
Rs. 3,000/-
Idea Building:
SEED AMOUNT
Entry Fee: 250/-Per Team
Coordinators
Faculty Coordinator: Ms. Nivedita Bhardwaj-+91-9816113346
Mr. Nishant-+91-8219294817
Student Coordinator: Jaanvi Singh-+91-8755874917
Devanshi Sharma-+91-9418876938
mail id: hakathonandideationcellstbedes@gmail.com
Registration Link: https://forms.gle/3d6H43QZwWTudUHa8
Register here:

Brochure

Students from Jaypee University of Information Technology presenting ideas



Judges and faculty members during hackathon

राष्ट्रीय विज्ञान दिवस पर सेंट बेड्स कॉलेज में अंतर-कॉलेज हैकाथॉन का आयोजन

सवेरा ब्यूरो

शिमला, 28 फरवरी : सेंट बेड्स कॉलेज के हैकाथॉन और आइडिएशन सेल ने सिस्टर रोज़िली टीएल के सक्षम मार्गदर्शन में 28 फरवरी, 2026 को एक अंतर-कॉलेज हैकाथॉन का सफलतापूर्वक आयोजन किया। इस कार्यक्रम का आयोजन हैकाथॉन सेल की संयोजक सुश्री निवेदिता भारद्वाज और सह-संयोजक श्री निशांत द्वारा किया गया था। इस हैकाथॉन ने विभिन्न कॉलेजों के युवा इनोवेटर्स को एक साथ लाया, जिससे उन्हें अपनी तकनीकी विशेषज्ञता और रचनात्मक समस्या-समाधान क्षमताओं का प्रदर्शन करने के लिए एक जीवंत मंच मिला।

यह आयोजन राष्ट्रीय विज्ञान दिवस के साथ मेल खाता था, जिसे प्रख्यात भौतिक विज्ञानी सी.वी. रमन द्वारा 'रमन प्रभाव' की खोज की स्मृति में हर साल 28 फरवरी को मनाया जाता है। इस दिन के महत्व ने प्रतियोगिता में एक गहरा अर्थ जोड़ा, क्योंकि वैज्ञानिक जांच और नवाचार की भावना पूरे आयोजन में गूंजती रही।

सीओई संजौली, जेपी यूनिवर्सिटी ऑफ इंफॉर्मेशन टेक्नोलॉजी, गवर्नमेंट

कॉलेज, कोटशेरा और सेंट बेड्स कॉलेज की कुल 12 टीमों ने अंतर-कॉलेज हैकाथॉन में भाग लिया। छात्रों ने सॉफ्टवेयर एप्लिकेशन, हार्डवेयर प्रोटोटाइप और कङ्कळ-आधारित उपकरणों के रूप में अभिनव समाधानों को डिजाइन और विकसित करने के लिए उत्साहपूर्वक काम किया। श्योर-ट्रिप, जेनो- द स्मार्ट एग्रीकल्चर रोबोट, स्मार्ट टूरिज्म और कल्चरल डिस्कवरी प्लेटफॉर्म, स्मार्ट डस्टबिन, एआई-आधारित स्रङ्कउँङ्कीी डिटेक्शन रोवर, फार्मर टू कंज्यूमर डायरेक्ट मार्केटप्लेस, ए चाओस बेस्ड क्रिप्टोग्राफिक, एडेप्टिव टूरिस्ट ट्रैफिक एंड पार्किंग मैनेजमेंट सिस्टम, एआई पावर्ड डिजास्टर रिस्क इंटेलिजेंस सिस्टम, एयर प्यूरीफिकेशन, मल्टी हैजर्ड डिजास्टर मैनेजमेंट सिस्टम जैसे प्रोजेक्ट्स प्रस्तुत किए गए। कार्यक्रम की शुरूआत एक परिचयात्मक सत्र के साथ हुई, जहाँ प्रतिभागियों को प्रतियोगिता के दिशानिर्देशों और मूल्यांकन मानदंडों के बारे में जानकारी दी गई। पूरे दिन, परिसर में गहन विचार-मंथन सत्र, कोडिंग गतिविधियाँ, हार्डवेयर असेंबली, और कङ्कळ डिवाइस कॉन्फि गरेशन देखे गए क्योंकि टीमों ने अपने विचारों को कार्यात्मक मॉडल में बदल दिया।

परियोजनाओं का मूल्यांकन एक सम्मानित पैनल द्वारा किया गया जिसमें डॉ. निखिल शर्मा, सूचना अधिकारी (वैज्ञानिक), जैव प्रौद्योगिकी विभाग, और डॉ. तरुण शर्मा, सहायक प्रोफेसर (इलेक्ट्रॉनिक्स और संचार इंजीनियरिंग), यूनिवर्सिटी इंस्टीट्यूट ऑफ टेक्नोलॉजी, और उप निदेशक, सेंटर फॉर एआई ऑन साइबर फिजिकल सिस्टम्स, हिमाचल प्रदेश विश्वविद्यालय शामिल थे। उनकी शैक्षणिक विशेषज्ञता और तकनीकी अंतर्दृष्टि ने सभी परियोजनाओं का व्यापक और निष्पक्ष मूल्यांकन सुनिश्चित किया।

प्रथम पुरस्कार : परवीन मेहता (सीओई संजौली)

द्वितीय पुरस्कार : प्रिक्षित शर्मा (सीओई संजौली)

तृतीय पुरस्कार : वक्षिता शर्मा, तमन्ना शर्मा (सेंट बेड्स कॉलेज शिमला)

समर्पण और उत्साही भागीदारी की मान्यता में सभी प्रतिभागियों को प्रमाण पत्र और भागीदारी ट्रॉफियां वितरित की गईं। विजेताओं को उनके उत्कृष्ट प्रदर्शन के लिए सम्मानित किया गया।

अंतर-कॉलेज हैकाथॉन सफलतापूर्वक संपन्न हुआ, जिसने छात्रों के बीच नवाचार, व्यावहारिक शिक्षा और तकनीकी प्रगति को बढ़ावा देने के लिए सेंट बेड्स कॉलेज के हैकाथॉन और आइडिएशन सेल की प्रतिबद्धता को मजबूत किया।

Newspaper report covering hackathon competition