

**SMART INDIA HACKATHON 2022**  
**SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT, NAGPUR**

**HIGHLIGHTS FOR SIH 2022**

**ELIGIBILITY CRITERIA**

- All technology students from AICTE / UGC / IIT / NIT / IISER / IIIT / Government approved educational institutions.
- Team of 6 students is **mandatory** of which at least one should be a female candidate.
- In event of a tie, a team with more female members will be selected.

**PROCESS FOR SIH 2022**

- Problem statements are released and available on <https://www.sih.gov.in/sih2022PS>.
- Maximum 15 teams (10 finalized + 05 waitlisted) from the institute for software and hardware category are allowed to participate in SIH-2022.
- Of these 15 teams, 5 teams (03 among finalized and 02 among waitlisted) will be selected from “**Students’ Innovation Category**”, while remaining 10 teams will be selected for the published Problem Statements on SIH portal.
- Of the 10 teams, 07 teams for software category and 03 teams for hardware category will be selected, whereas for the 05 waitlisted teams, 03 teams for software category and 02 teams for hardware category will be selected.
- In case suitable entries for software/hardware category are not available, the same will be selected from the other category.
- Every institution for participation into SIH-2022 will organize Internal Hackathon before submitting the selected teams on the SIH portal.
- The SPOC (Single-Point-Of-Contact) from the Institute will upload the details of the Internal Hackathon on the SIH Portal.
- SPOC will enter the selected teams and their idea document on the SIH portal in presence of the team leader on SIH portal.
- Last date for entering selected teams at SIH portal by college SPOC is **March 31, 2022**.
- **Important: All submissions should come from the college SPOC only. Submissions of ideas directly from students will not be accepted.**

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**WHAT'S NEW IN SIH-2022**

**IDEA NOMINATION PROCESS**

- The last date for team nomination and idea submission by College SPOC on SIH portal is till March 31, 2022.
- Idea submission counter will start from March 10, 2022 and **only 125 ideas** will be submitted for a particular PS. Once the counter got all 125 ideas, the particular PS will get **freeze** and no idea submission will be allowed for the respective PS.
- Counter with the ideas submitted numbers and Ideas left numbers will be displayed in the public domain just opposite to the PS and can be viewed by anyone on [www.sih.gov.in](http://www.sih.gov.in).
- Nominated Team's team leader will get the Login credentials to complete the idea submission process.

**IDEA SELECTION CRITERIA**

- Post Idea submission process, the ideas will be evaluated by experts. Evaluation criteria will include novelty of the idea, complexity, clarity and details in the prescribed format, feasibility, practicability, sustainability, scale of impact, user experience and potential for future work progression.

**MODE OF HACKATHON**

- SIH 2022 will be held offline at various nodal centres across pan India and teams have to travel to their respective nodal centres. The tentative date for the hackathon is **2<sup>nd</sup> / 3<sup>rd</sup> week of July 2022**.

**SHORTLISTED IDEAS ANNOUNCEMENT**

- Notification about selected teams will be put up on our portal and will also be sent to their respective email IDs.
- Be available for meetings, sessions and trainings during the preparation phase; you will be notified about them in advance.
- Around 4 to 5 teams per Problem Statements are selected to compete in grand finale. However, this no completely depends upon the Problem Statements creating organization.
- The organization, who has submitted problem statements, is not at all bound under any circumstances to declare any winner in the grand finale. They can only select if the ideas proposed by the students meet their expectations.

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**GENERAL INFORMATION REGARDING THE GRAND FINALE**

- If a team is selected for the final Hackathon, members will need to travel to the assigned nodal center which can be anywhere in India.
- Shortlisted teams (6 students including team leader & 2 mentors) traveling for the grand finale will be eligible to receive reimbursement for to & from journey via 2nd Class sleeper railway fare. The reimbursement amount will be paid at the grand finale nodal centers upon producing copies of train tickets and completing relevant forms. The arrangement for booking of train tickets is responsibility of teams themselves or their institutes.
- College faculty members traveling with teams for the grand finale are not eligible for any reimbursement of travel expenses.
- The nodal centers will be arranging for accommodation of teams during the grand finale.
- Each college/institute will issue a stamped photo ID to each member of the teams selected for the finale
- College photo ID is mandatory for participating in the finale.

**PROBLEM STATEMENTS AND PRIZES TO BE WON**

- SIH2022 brings you problem statements from leading public and private organizations, union ministries, state governments and NGOs in India.
- There would be ONE single winning team for every problem statement posted on the portal. The prize money will be given by the collaborating ministry/ industry ONLY IF that organization likes the idea of the winning team. However, it is NOT mandatory to announce only one winning team against each problem statement. If the collaborating ministry/ industry conclude that none of the ideas are up-to-the-mark, they may not announce any winning team at the finale.
- Amount of prize money to be awarded to each winning team is Rs.100000/- per problem statement.
- If there is a tie between two or more teams, the final decision of the prize money distribution will be taken by the problem statement creator only and once the decision is made, it won't be changed further.
- Teams are also encouraged to think out-of-the-box and provide creative solutions to themes under 'Students Innovation' category. Please note that only 15 teams' max (Including theme based/Student Innovation) are allowed from one college.
- Prize money for student innovation category will also be different. 3 teams per nodal center will be selected of which 1st prize money will be of Rs 1 Lac and 2nd of Rs

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75000 and 3rd will be of Rs 50000. There may be 3-4 nodal centers (tentatively) for student innovation category.

**MISCELLANEOUS INFORMATION**

- Intellectual property (IP) of the winning idea would be split equally between industry that gave the problem statements and the winning team or will be decided on the mutual agreement.
- Selected ideas will be supported to be developed further so that industries/ government institutions will be able to utilize these ideas; more efforts beyond the finale are required from the selected teams thereafter.
- The ideas or solutions provided/developed/proposed by the team's must be new and must not have been present in any previous event/program of any sort.

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**INTERNAL HACKATHON 2022**

The Internal Hackathon [Software & Hardware] of RCOEM will be conducted on March 24, 2022 [Thursday]. It will be an open-house event, which will see the selection of **10** Best Ideas from **10** distinct teams for Software Edition and **5** Best Ideas from **5** distinct teams for Hardware Edition from among the ideas submitted. These **15** selected teams (10 finalized & 05 waitlisted) will be making the RCOEM's official nominations to Smart India Hackathon 2022.

The selected teams of Internal Hackathon will undergo the formal SIH 2022 procedure of further short-listing the teams (from among the institutes across India) for the Grand Finale.

The selection in Internal Hackathon does not guarantee the team's participation in Grand Finale of Smart India Hackathon 2022.

The idea-cum-team selection will be conducted by panel of Judges during the Internal Hackathon and the judgment will be solely based on the Idea Documents [to be presented by prospective team in prescribed format only]. The idea submission by a team may be summarily rejected if the idea document overrides the mentioned guidelines.

As only **15** best idea documents will make it to SIH 2022, it is suggested that student teams should invest sufficient time in conceptualization of the solution to the stated problem (for detailed problem statements visit <https://www.sih.gov.in/sih2022PS> ) and creating the idea document for submission.

**GUIDELINES FOR TEAM FORMATION**

1. All team members should be from same college; **no inter-college teams are allowed**. However, members from different branches of the same college/institute are encouraged to form a team.
2. Each team would comprise of 6 members (of which **at least one member must be a female**) including the team leader. **The team will not include faculty members**.
3. As the software edition of Hackathon is digital product development competition, majority of the team members **MUST** be well versed with programming skills.
4. For the hardware edition, we encourage multi-disciplinary teams - which mean the team should have a good mix of Mechanical Engineers, Electronic Engineers, Product Designers and Programmers.
5. The **team name** should be **unique** and must not contain the name of your institute in any form.
6. **Team members CANNOT be associated with multiple teams on parallel**. Any such attempt will lead to disqualification of the team.

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### RULES FOR CREATING THE IDEA DOCUMENT PPT

1. A team may submit a maximum of TWO idea at the Internal Hackathon. It is strongly recommended that the teams must focus on submission of quality solutions with well thought approach to stated problem(s).
2. The idea document PPT should be compiled strictly as per the prescribed format. [download the [Idea\\_Document\\_Template.pdf](#) at [www.rknec.edu](http://www.rknec.edu) ]
3. The Idea document PPT (converted to PDF) for a team must not exceed **5 slides**.
4. The first slide will include - Ministry/Organization Name, Problem Statement (also include PS Number), Team Name, Team Leader name and College Code [ **C-18886**].
5. The second & third slide will include - Description of Your Idea | Solution | Prototype, and Description of the Technology Stack.
6. The fourth & fifth slide will include - Description of Your Use Cases, and Description of Your Dependencies | Show Stoppers.

### SINGLE-POINT-OF-CONTACTS [SPOCS]

**Prof. Dilipkumar A. Borikar**

Assistant Professor

Department of Computer Science & Engineering

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### GUIDELINES FOR REGISTRATION OF A TEAM FOR INTERNAL HACKATHON

1. Only team leaders will be responsible for registering the team with the SPOCs.
2. Teams willing to register for both Software and Hardware category should submit separate registrations for each category to concerned SPOC.
3. Team registrations can be made from March 08, 2022 to March 15, 2022 (up to 15:00 Hours). No registrations will be entertained after the said deadline. (*Only for teams comprising of III semester students the registrations will allowed till March 20, 2022*).
4. Team leaders will approach the concerned SPOC with filled-in registration form(s) to register for the Internal Hackathon 2022. (the form is available on [www.rknec.edu](http://www.rknec.edu) )
5. In addition, the team leader must complete the team registration by submitting a Google Form (Form URL: <https://forms.gle/gaLPdrg7Kq6P4bq1A> )
6. Team will upload the PDF copy (s) for their idea statement(s) as per prescribed format in the Google Form while completing the registration. (Use only RKNEC Mail-IDs and WhatsApp Mobile Numbers)
7. **Only the registered teams will be allowed to present the mentioned problem statements to the panel of judges during the Internal Hackathon on 24-March 2022.**
8. All members of the registered teams presenting the idea to the jury will receive the participation certificate at the Internal Hackathon. The registered teams not reporting to Internal Hackathon for evaluation will **not** receive participation certificates.

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### PROCESS FOR INTERNAL HACKATHON

1. Internal Hackathon will be conducted on **March 24, 2022**. The detailed schedule will be notified through Notice Boards, WhatsApp Groups & Email and published on [www.rknec.edu](http://www.rknec.edu).
2. There will be separate Panel of Judges for evaluation of idea documents for Software Category and Hardware Category and the evaluation will proceed in parallel.
3. The team leader (with the members) shall demonstrate the idea statement(s) to the Judges in a PowerPoint presentation.
4. The Judges will review and evaluate the Idea Documents and select the **15** best teams (10 teams for Software Edition and 5 teams for Hardware Edition). These 15 teams will be nominated (10 finalized & 05 waitlisted) to SIH 2022 by the college.
5. **The decision of judges will be final and binding on all teams.**
6. The details of the **15** nominated teams for SIH-2022 will be posted on college website.

### IDEA SUBMISSION ON SIH PORTAL

1. A college cannot nominate more than 15 teams under any circumstances.
2. After Internal Hackathon, the college SPOC will enter selected teams on the SIH portal.
3. Idea submissions will be made in the presence of Team Leader only.
4. Submission dates should be strictly followed. No exceptions will be made.

### SELECTION CRITERIA FOR GRAND FINALE OF SIH 2022

1. Evaluation criteria will include novelty of idea, complexity, clarity and details in prescribed format, feasibility, practicability, sustainability, scale of impact, user experience and potential for future work progression.
2. While selecting between 2 similar ideas, preference will be given to the team with maximum number of female members.
3. In event of a tie, the decision of the creator of the problem (ministry or organization) will be final.

### ACT NOW...

- Team Leaders to form teams on immediate basis.
- Team may approach faculty for clarity on the formulation of solution.
- Register your team with the concerned SPOC. Teams may decide a faculty as prospective mentor.
- Team to select most appropriate problem statement(s) and prepare structured idea document(s) for submission at Internal Hackathon on March 15, 2022.

**Dr. A. J. Agrawal**  
Coordinator, Internal Hackathon