



Sardar Patel Institute of Technology
Bhavan's Campus, Munshi Nagar,
Andheri (West), Mumbai-400058-India
(An Autonomous Institute Affiliated to University of Mumbai)



Rules and Rubric for Internal Hackathon

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Important dates

Registration with Idea submission* - 02 January 2020

Orientation by winners of SIH 2019 - 03 January 2020

Notification of acceptance of the team# - 06 January 2020

First screening of the team (Only if required) - 08 January 2020

Conduction of internal hackathon -17 January 2020

Last date for entering selected teams at SIH portal - 22 January 2020

***Registration with Idea submission - 02 January 2020-**

Team leader has to register for the hackathon. Before filling the registration form, keep your problem statement/idea presentation ready in the form of PDF/PPT.

Registration with idea submission link - <https://forms.gle/T9uAu3TvLhmo4bL38>

Notification of acceptance of the team# - 06 January 2020-

Students will receive the notification about the acceptance and if needed they need to present the idea on 08th January 2020.



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SIH2020 Process Flow

1. SIH2020 Software & Hardware Edition: Problem statements submission by Central & State Ministries, Departments, PSUs, Industries & NGOs
2. Submission of Problem Statements (PSs) by Central & State Ministries, PSUs, Industries and NGOs on the SIH portal. Review of Submitted PSs & finalization by concerned committee Publishing finalized PSs
3. Registration of College SPOCs on SIH portal, Blocking published PSs by SPOCs of Colleges or Institutes, Internal campus hackathon to be conducted in each college or institute by their SPOCs on their blocked PSs
4. College SPOC to be responsible to conduct internal hackathon in the campus College to finalise total best 5 teams + 2 waitlisted teams from the internal hackathon. SPOC to recommend the selected teams for SIH 2020 Software edition at SIH portal Out of the 5 selected teams per college, 4 can be chosen from blocked PSs & 1 can be chosen for Student Innovation category
5. Team leaders of the selected teams to be registered at the SIH portal to submit ideas Submission of ideas by selected teams against PSs by college SPOC for the SIH2020 Finale Evaluation of submitted ideas
6. Result analysis Publishing Result SIH2020 Software Grand Finale: 14th-15th March, 2020 (Tentative)



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Rubric for evaluation

Rubrics for Idea submission (03/01/2020)

Performance Indicator	Attempted (1-3)	Acceptable (4-7)	Excellent (8-10)
<i>Identification of the Main Issues/ Problems (PI1)</i>	Identifies and understands some of the issues in the idea submitted	Identifies and understands most of the main issues in the idea submitted	Identifies & understands all of the main issues in the idea submitted
<i>Analysis of the Issues (PI2)</i>	Superficial analysis of some of the issues in the idea submitted.	Thorough analysis of most of the issues	Insightful and thorough analysis of all the issues
<i>Comments on effective solutions /strategies (The solution may be in the case already or proposed by you) (PI3)</i>	Superficial and/or inappropriate solutions to some of the issues in the idea submitted.	Appropriate, well thought out comments about solutions, or proposals for solutions, to most of the issues in the idea submitted	Well documented, reasoned and pedagogically appropriate comments on solutions, or proposals for solutions, to all issues in the idea submitted.
<i>*Delivery and Enthusiasm (PI4)</i>	Most ideas flow but focus is lost at times Limited evidence of interest in and engagement with the topic	Clear flow of ideas Demonstrates interest in topic and engagement with the group.	Very clear and concise flow of ideas. Demonstrates passionate interest in the topic and engagement with the group.

* PI4 - First screening of the team (Only if required) - 08 January 2020 -all teams need to give the presentation of their ideas in front of the external examiners, only if required (Will be notified, well in advanced)



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Rubric for hackathon evaluation (Final internal hackathon – 17/01/2020)

Performance Indicator	No credit (00)	Developing (05)	Effective (07)	Excellent (10)
Fit Does the product address the prompt? (<i>PI1</i>)	The project has very little or no application	The project takes wide liberty with the prompt and is only loosely related. The core messages are missing.	Project addresses the prompt but diverges in some core aspects. It is useful in theory but lacks aspects in execution to bring it into reality. Alternatively, the project develops a new idea that reasonably fits the hackathon.	The content of the project directly addresses the prompt. Project has application in a clear, unique way. Alternatively, the project develops a new idea that fits the hackathon goals well by coordinating with the organizers.
Innovation Does the product introduce a new approach or perspective, technical, analytical, or visual? (<i>PI2</i>)	The chosen technology and design are already deeply established	The project adds a new twist on established design. The new project provides a better/faster/clearer way to attack the problem than the old one	The new project tackles a problem that has been overlooked/ignored in the past, or attacks a problem with a new angle / on a bigger scale / on a higher level	The technology or design breaks ground. The new project attacks a new problem and provided a good solution



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Functionality Does the product function as intended? Is it robust and easy to interact with? <i>(PI3)</i>	Product is less than 20% functional	Product is semi-functional. Has 20-40% of functionality. Does some of the things it is intended to do.	Product is mostly-functional (40-80%). Does most of the things it is intended to do, but is missing some functionality.	Product is fully functional (80-100%) - meets intentions (e.g. actually does what you say it is supposed to do).
Impact/Potential/Sustainability <i>(PI4)</i> Does the product have a strong effect on someone or something?	Product solves a relevant problem for city government, but it is hard to implement or scale and the team does not have a clear plan to move the project forward	Product solves a relevant problem for city government, and it is hard to implement or scale, but the team has a clear plan to move the project forward	Product has a sustainable life-cycle and it is already working	Product has sustainable life-cycle and it is already working, utilizes a well-established open source community supported framework and has multi-platform support
Design Is the product aesthetically pleasing? Does the design of the product elevate its message? <i>(PI5)</i>	No design, the project is uninviting and does not elevate the message	Some intentionality is put into the UX and UI but navigation is not intuitive. Message is somewhat muddled	Project is well designed and easy to use. Message is clear. additional directions are needed to easily navigate project.	Message is communicated fresh and compelling. Design is beautiful. Project is very well organized and user can use application without any additional instructions



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Extensibility Can the product be easily expanded in the future? (<i>PI6</i>)	Project is not interactive in any way and is not utilizing code.	Project is interactive and code is easily accessible, but is does not use open frameworks or is difficult to further develop	Project uses conventions that make it extensible, like it distinguishes between data, code and front-end design and uses open frameworks	Overall project is very clear how it was developed (framework, coding conventions, naming conventions), and has some in code documentation attached to it, which makes it easy to be expanded by another coder.
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How should the students form a team?

- 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.
- Each team would mandatorily comprise of 6 members including the team leader.
- Each team must have **AT LEAST ONE FEMALE TEAM MEMBER**.
- As the software edition of the hackathon is digital product development competition, majority of the team members **MUST** be well versed with programming skills. For the hardware edition, we encourage multi-disciplinary teams – which means your team should have a good mix of Mechanical Engineers, Electronic Engineers, Product Designers and Programmers, etc.
- All these teams will be participating in the recommended Internal hackathons.



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Idea nomination process

Please note:

- The top 7 teams (5 teams for Software edition and 2 teams for Hardware edition) nominations (from internal hackathon) must be submitted on the SIH portal by the College SPOC only.
- SPOC registration will start from 1st December 2019
- The last date for team nomination and idea submission by College SPOC on SIH portal will be 25th January 2020. This deadline will not be extended under any circumstances and no exceptions will be made.
- College SPOC must login on sih.gov.in using his/ her credentials and fill out the details of 7 nominated teams.
- **With this new system, a team will not be able to make multiple idea submissions.**



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Internal Hackathon -

1. Experts Mentoring Session-I
2. First Round of Evaluation (based on 1)
3. Experts Mentoring Session-II
4. Second Round of Evaluation (based on 2)
5. Third Round of Evaluation
6. Announcement of winners

Note – Detailed schedule for 17th January 2020, will be shared soon.