



SMART INDIA  
HACKATHON  
2019



MHRD

सत्यमेव जयते



MHRD'S  
INNOVATION CELL  
(GOVERNMENT OF INDIA)



PERSISTENT



रामभाऊ म्हाळगी प्रबोधिनी  
Rambhau Mhalgi Prabodhini

Launched on - *August 29, 2018*



# Important Timelines

**Last Date of SPOC registration (Software edition) : January 15, 2019**

**Last Date of SPOC registration (Hardware edition) : January 15, 2019**

**Last Date of Software edition Submission\* : January 20, 2019**

**Last Date of Hardware edition Submission\* : January 20, 2019**

**Announcement of shortlisted teams: Feb 15, 2019**

**Software Finale : March 2 & 3, 2019 (36 hours event)**

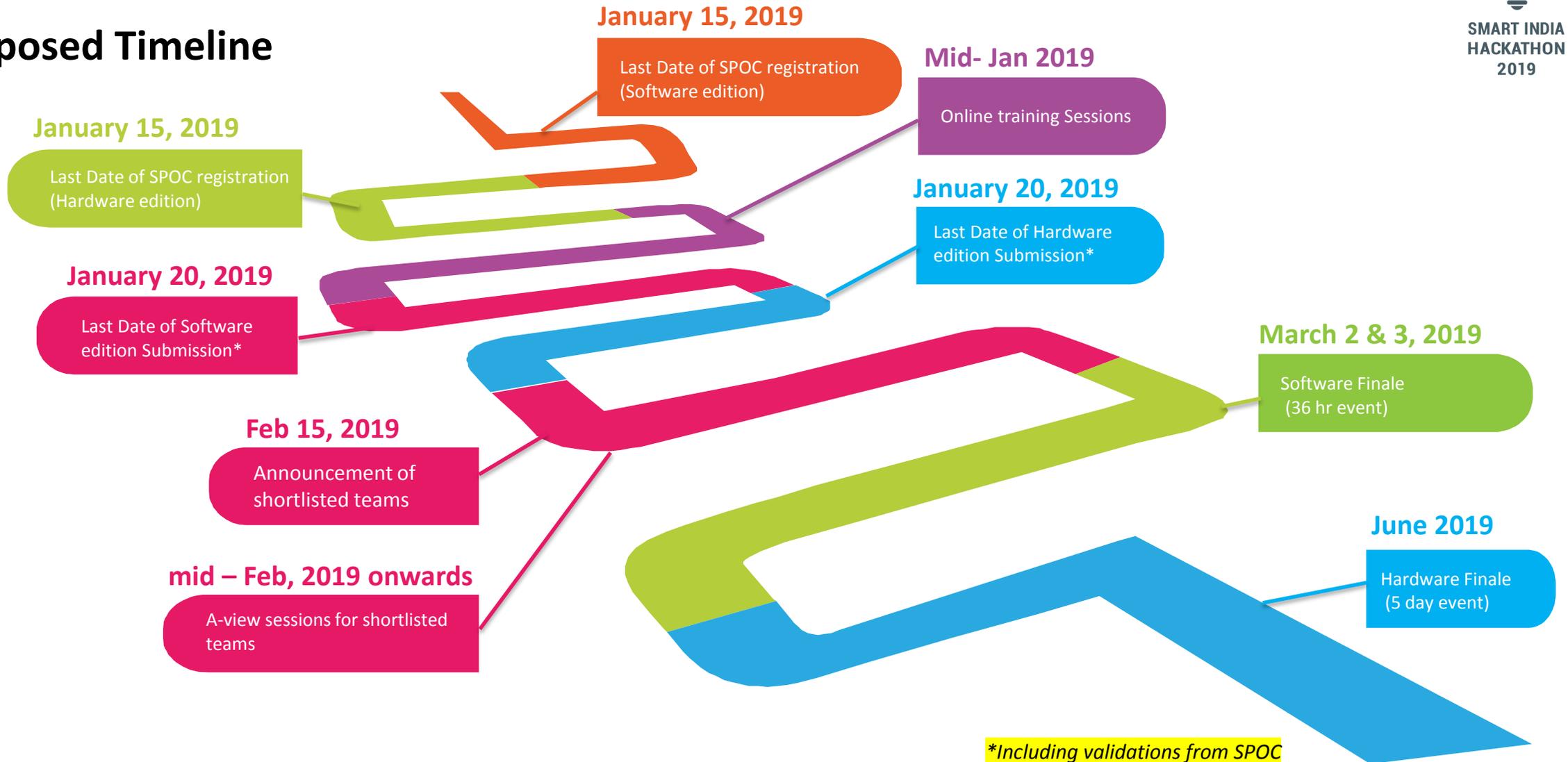
**Hardware Finale : June 2019 (5 days event)**

*\*Including validations from SPOC*

# Smart India Hackathon 2019



## Proposed Timeline



# A Few Statistics...

<b>Problem Statements</b>	<b>Industry (95)</b>	<b>Ministry (18)</b>	<b>Student Innovations</b>	<b>Total</b>
Software	208	112	14	334
Hardware	109	79	12	200
Total	<b>317</b>	<b>191</b>	<b>26</b>	<b>534</b>

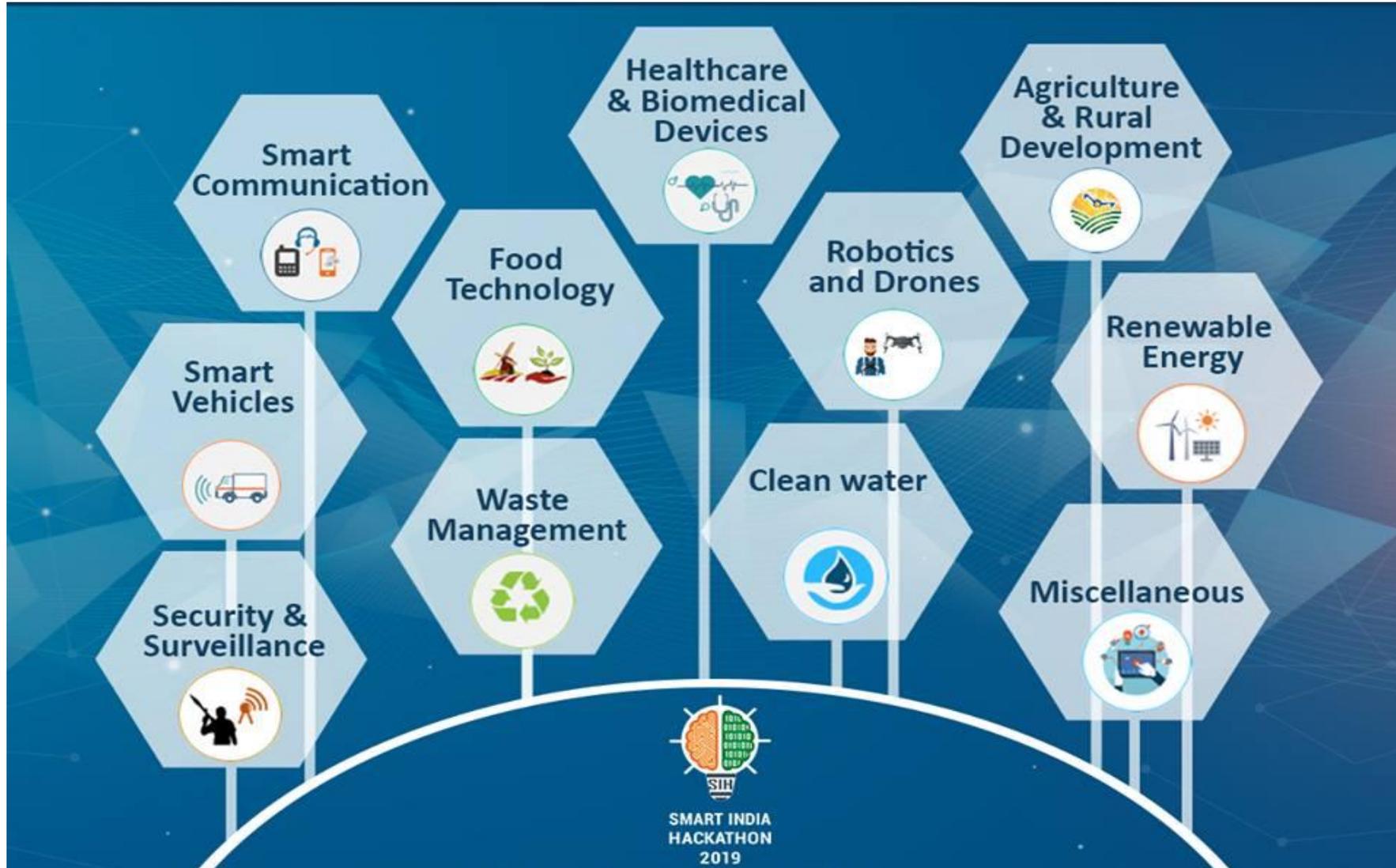
# Participating Organizations



# Themes for SIH2019



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# Process Flow

- Register College SPOC
- Approval by SIH Admin
- Register Student Team
- Approve Student Team Registration by College SPOC
- Student Teams to Submit Solutions
- SPOCs to approve/ disapprove solutions based on completeness
- Only SPOC approved entries will be evaluated by SIH evaluation committee

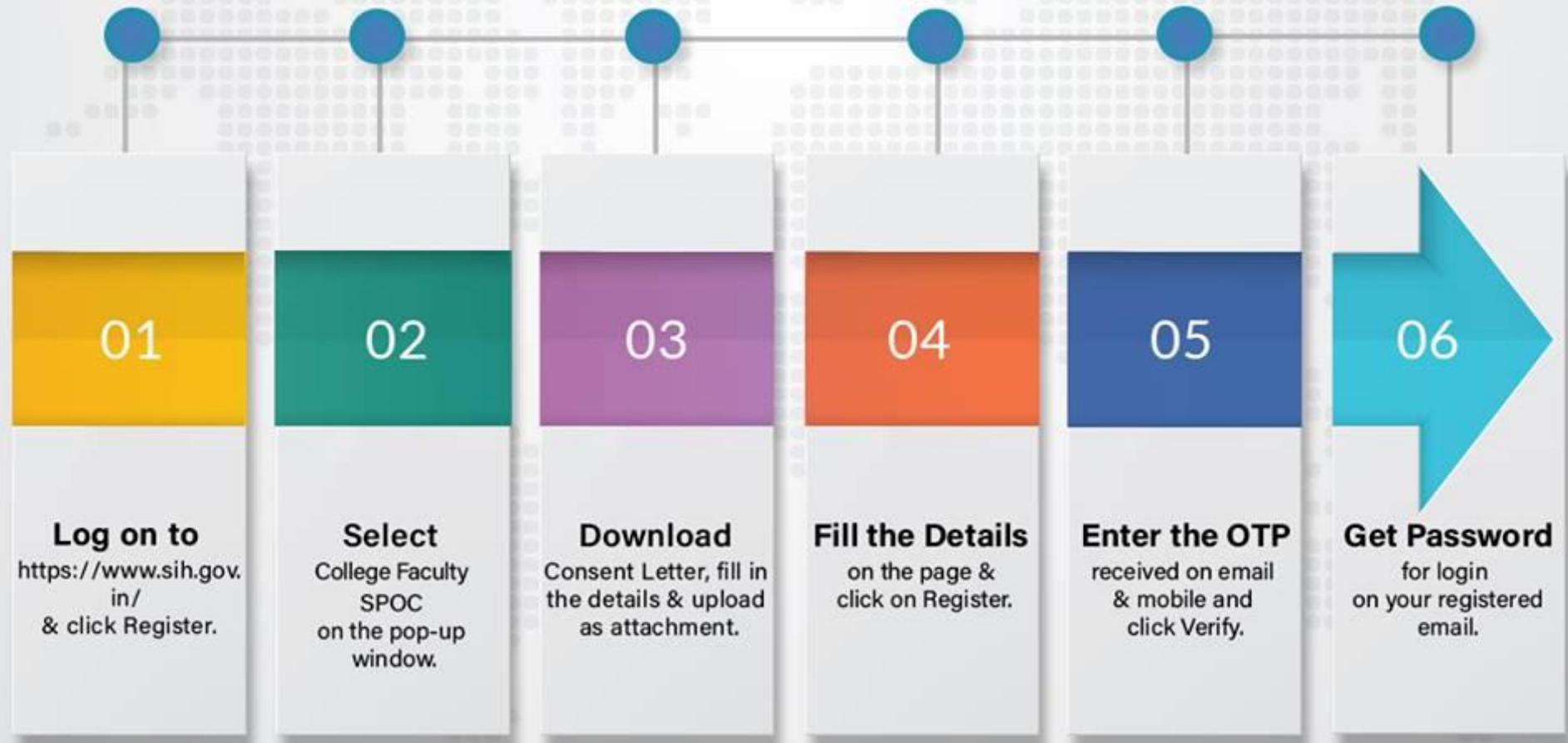


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# SPOC Registration, Verifying Teams

# SPOC Registration Process

*Institute  
Single Point of  
Contact  
(SPOC)*



You are required to include AISHE / AICTE Code while registering, which would be provided by your Administration or Principal / Director

## *Institute Single Point of Contact (SPOC) – Contd.*

- Once Steps 1 to 6 are complete, SIH Admin will approve SPOCs.
- Notification of same will be received by SPOC
- SPOC will authenticate respective college student teams
- Once the team is verified, they can submit their ideas against the problem statements.
- Once ideas are submitted, SPOCs are expected to review and approve/ disapprove to move further in the competition

SIH portal [www.sih.gov.in](http://www.sih.gov.in)



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# Student Team Registrations, Idea Submission

# How to Form a Student Team?

- **6 students** per team is **MANDATORY**
- ***At least 1 FEMALE team member is mandatory!***
- All team members should be from same college but can be from different engineering backgrounds.
- **No faculty members in teams**
- Most of the members **MUST** be well versed in programming skills

*No restriction on number of teams from each college*

*No restriction on idea submissions against different problem statements by each team*



## Colleges must issue an Authority letter to each team!

- Colleges MUST issue one College Authority Letter in the prescribed format for every team. The authority letter format can be downloaded from the top left hand side of team registration page
- The letter must be issued on college letterhead only, must contain all required team details, and must be duly signed by college principal/ dean/ institute director and bear the college seal
- The team name should be unique and MUST NOT contain the name of institute
- A team can make multiple idea submissions for different problem statements under the same team name
- **Team members CANNOT be associated with multiple teams in parallel!**



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< College letter head >

Date: xx/Month/2019

Sub: Smart India Hackathon 2019 – Nomination

I am pleased to nominate the below team from our college to participate in Smart India Hackathon 2019. AICTE Application No. / UGC / AISHE Code is \_\_\_\_\_.

Team : < Team Name (s) >

	Name	Gender (M/F)	Email id	Mobile no.
Team Leader				
Team Member				

*(Instructions for participating institutes:*

*\*There is no limit on number of submissions per college. Hence, issue One Consent letter per team. Please follow the college authorization letter format given here. If the format is changed, the team is likely to get disqualified.*

*\*\*Please remove these 2 lines in the bracket before saving and uploading the form)*

Sincerely,

< Principal's Name >

Sign/-

The Principal < College Stamp >



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# Team Registration

*Note: Team registration must be made by **Team Leader only!!***



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➤ Visit [www.sih.gov.in](http://www.sih.gov.in) and click on **REGISTER** button on top right side.

The screenshot shows the homepage of the Smart India Hackathon 2019 website. At the top, there is a yellow navigation bar with the text "SPOC and Student Registrat". Below this is a white header containing the SIH logo, navigation menus for "EVENTS", "MEDIA", "IMPORTANT RESOURCES", "SUPPORT", and "SIH 2019 PROBLEM STATEMENTS", and links for "GRIEVANCE", "LOG IN", and "REGISTER". The main content area features a large banner with the text "Smart India Hackathon is a non-stop digital product development competition." and the hashtag "#SmartIndiaHackathon". The banner also includes the AICTE logo and a portrait of Dr. Anil Sahasrabudhe, Chairman of AICTE. On the left side of the banner, there is a vertical section with the SIH logo and the text "SMART INDIA HACKATHON Up Coming Event SIH 2019". At the bottom of the page, there is a blue navigation bar with links for "Important", "Winners - SIH 2018 Hardware", "Smart India Hackathon 2019", and "Smart India Hackathon 2017 Outcome". The Windows taskbar is visible at the very bottom, showing the time as 12:17 on 04-12-2018.

➤ Select radio button of **Student Team Leader**

https://www.sih.gov.in

Registrations for College SPOCS and Student teams; Idea Submiss

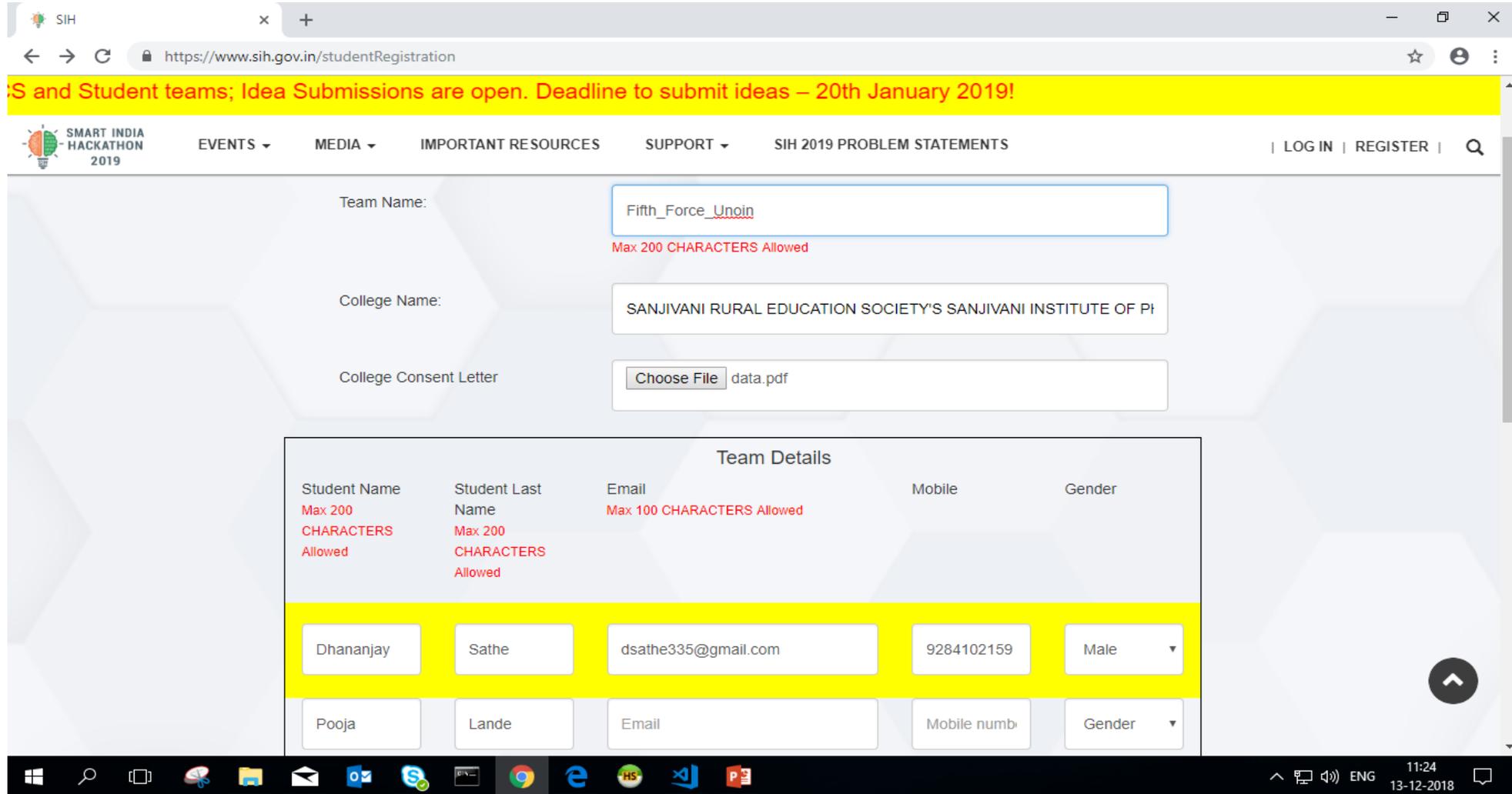
### Select Registration Type



- Problem Statement Creator
- College Faculty SPOC
- Student Team Leader

Close

- Fill all the required fields and upload your College Authority Letter in PDF format
- Team name should be unique and system wont accept names already in the database



The screenshot shows the student registration page for the Smart India Hackathon 2019. The browser address bar shows the URL <https://www.sih.gov.in/studentRegistration>. A yellow banner at the top contains the text: "S and Student teams; Idea Submissions are open. Deadline to submit ideas – 20th January 2019!". The navigation menu includes "EVENTS", "MEDIA", "IMPORTANT RESOURCES", "SUPPORT", and "SIH 2019 PROBLEM STATEMENTS", along with "LOG IN" and "REGISTER" links. The registration form includes the following fields:

- Team Name:** Input field containing "Fifth\_Force\_Unoin" with a red error message below it: "Max 200 CHARACTERS Allowed".
- College Name:** Input field containing "SANJIVANI RURAL EDUCATION SOCIETY'S SANJIVANI INSTITUTE OF PI".
- College Consent Letter:** File upload field with a "Choose File" button and the filename "data.pdf".

Below the main form is a "Team Details" section with a table structure:

Student Name	Student Last Name	Email	Mobile	Gender
<small>Max 200 CHARACTERS Allowed</small>	<small>Max 200 CHARACTERS Allowed</small>	<small>Max 100 CHARACTERS Allowed</small>		
Dhananjay	Sathe	dsathe335@gmail.com	9284102159	Male
Pooja	Lande	Email	Mobile numb	Gender

The first row of the table is highlighted in yellow. The system tray at the bottom shows the time as 11:24 on 13-12-2018.

## ➤ Insert required fields and click on REGISTER

College SPOCS and Student teams; Idea Submissions are open. Deadline to submit ideas – 20th January 2019!

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EVENTS ▾ MEDIA ▾ IMPORTANT RESOURCES SUPPORT ▾ SIH 2019 PROBLEM STATEMENTS | LOG IN | REGISTER | 🔍

Pooja	Lande	poojalande5@gmail.com	8623938192	Female ▾
Sayli	Deshmukh	sayali99600@gmail.com	7709545028	Female ▾
Shreyas	Eksambhe	shreetej4497@gmail.com	7741065896	Male ▾
Rahul	Rajdev	dhananjaysathe1994@gmail.com	9730368699	Male ▾
Onkar	Patil	o.patil@gmail.com	9881148570	Male ▾

Note : First Member Is Team Leader

Register

Already Have An Account? [Login](#)





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- The team leader will get a single email with: 1: OTP for email verification, 2: OTP for mobile verification, & 3: Details of Username and Password for login purpose

Jahan - World of Luxury - Home x SIH x +

← → ↻ https://www.sih.gov.in/verify\_all\_members/MjUxMg==

Registrations for College SPOCS and Student teams; Idea Submission

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EVENTS ▾ MEDIA ▾ IMPORTANT RESOURCES SUPPORT ▾ SIH 2019 PROBLEM STATEMENTS

GRIEVANCE | LOG IN | REGISTER

Please verify mobile numbers and email ID(s).

Aditi

Enter OTP

Authenticate

Code Not Received? Resend

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DOWNLOAD Smart India Hackathon app from Google Play Store

+91 20 49006587

Mon to Fri-10.00 AM to 6:00 PM

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- Team Leader can just login on the portal once verifications are successfully completed
- Your team registration will now go to your College SPOC for authentication. Note: **Teams cannot make idea submissions until their College SPOC authenticates their registration**
- Teams will receive notification once SPOC completes authentication process. Notification will be sent via email as well as SMS to the Team Leader
- You are now ready to make an idea submission

# Idea Submission by Student Teams

***Note: Idea submission must be made by the Team Leader only!!***

- Submission dates should be strictly followed. No exceptions will be made.
- Jan 20, 2019 is the last date for idea submission including SPOC approval
- Team leaders must login on [www.sih.gov.in](http://www.sih.gov.in), select the problem statement of their preference and submit ideas against the same
- Now fill out your Idea title and description in the dedicated boxes
- Upload your Idea PPT in prescribed 3 slide format. **Don't forget to convert the PPT into PDF format before you upload it.** This is how the PPT should look...

## Idea/Approach Details

Ministry/ Organization name:

Problem Statement :

Team Name :

Team Leader Name :

College Code :

# Idea / Approach details

Describe your idea / Solution / Prototype here

Describe your Technology stack here

# Idea / Approach details

Describe your Use Cases here

Describe your Dependencies / Show stopper here  
(crucial data or software or hardware, without which you cannot create the final model/ product)

# After you submit ideas

- Once submitted, team's idea submissions goes to College SPOCs for verification
- The SPOC is expected to verify that the submission is in the expected format and inline with expectations set in the problem statement
- Please note, the idea submissions are visible to SIH team for evaluations only when SPOC verifies and approves them!

# Selection Criteria

- 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.
- While selecting between 2 similar ideas, preference will be given to the team with maximum girl members

# Announcement of Shortlisted Teams

- Keep a track of all announcements and updates on [www.sih.gov.in](http://www.sih.gov.in) as well as the **SIH mobile app**
- ... and your email boxes / mobile SMSs

# Mentor Nomination

- For Software Edition, after teams are shortlisted, each team will have the option of selecting them from the industry or academia. A person needs to have 4+ years of Industry/ Academic experience to qualify as a mentor.
- For Hardware Edition, 2-3 Industry mentors are encouraged – specifically those with over 5 years of hands on experience in hardware industry.
- Mentor registrations for shortlisted teams open strictly post internal evaluation round. Teams would be emailed a link to register details of their chose mentors

## **General responsibilities of Mentor**

- Mentor and guide teams via Skype/phone/video-chat or in person before the finale to help convert students' ideas into a working prototype.
- Provide guidance and support to your allocated teams. Mentors along with participating students work together as a team at the grand finale
- Work collaboratively with the allotted student team during the entire Grand Finale to build a working prototype.
- Out-station travel to the hackathon venue may be necessary to participate in the Grand Finale.

# IP and Post Hackathon

- Intellectual property (IP) of the idea would be shared equally between the team members and the collaborating company/ union ministry proposing the problem statement.
- Selected ideas may be further developed so that they can be productized depending on the decision taken by the collaborating company/ ministry on this matter; more efforts beyond the finale will be required from the selected teams.

# Swayam Training Schedule



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Inviting all technology students to  
join online trainings on

## Designing Digital Solution

- 45+ hours of Training Programs
- Best Industry Experts/ Coaches
- Certificate on successful completion of trainings
- Eligibility: Technology students from all institutions

To join trainings:

[www.swayam.gov.in](http://www.swayam.gov.in)  
[www.mic.gov.in](http://www.mic.gov.in)

Trainings start from  
Jan 14, 2019

Trainings end on  
Feb 7, 2019

# Swayam Training Schedule

## Training Topics

- Planning for Effective Project Readiness
- Research Methodology
- Mind Mapping
- Brainstorming for Defining Ideas
- Fundamentals of Design
- Version Control
- Software Architecture
- Best practices of Software testing
- Insights into Patents and IPR
- Data Analytics with Python
- Overview of Machine Learning
- Overview of Node.js
- Overview of Angular
- Overview of React Native
- Overview of Android App Development
- Overview of Arduino
- Overview of Raspberry Pi
- Presentation and communication skills

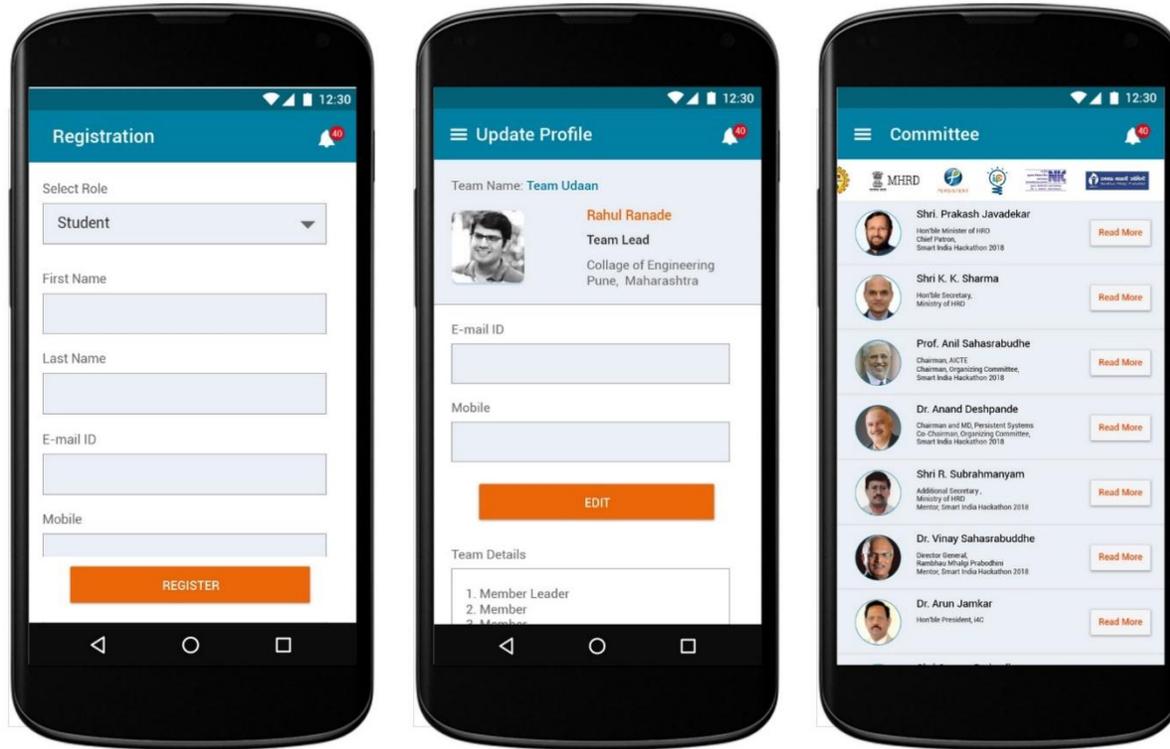


## Download Smart India Hackathon SIH App for seamless communication



- The app will be the single point of communication through which you can get the latest notifications, event alerts, trainings announcements, etc.
- It is recommended that all participating students, SPOCs, Mentors, etc. should download this App so as not to miss out on any important announcements.
- Use the following link to download:  
<https://play.google.com/store/apps/details?id=com.psl.sihapps>

# Login using Facebook/ Twitter account credentials



## Features

- Login using Facebook / twitter accounts
- Access and update personal user profile
- Ask Questions and get personalized answers
- Receive important notifications on events / trainings

# *Thank You!*

**For queries reach out to us on:**

[sih@aicte-india.org](mailto:sih@aicte-india.org)

**Find us on social media:**

Facebook: [www.facebook.com/i4C.India](https://www.facebook.com/i4C.India)

Twitter: @i4CIndia / @sih2018