SMART INDIA
HACKATHON
2019

MHRD

MHRD'S
INNOVATION CELL
(GOVERNMENT OF INDIA)

PERSISTENT

रामभाऊ म्हाळगी प्रबोधिनी
Rambhau Mhalgi Prabodhini

Launched on - *August 29, 2018*

THIS YEAR WE HAVE

HARDWARE & SOFTWARE

EDITIONS

Important Timelines

SMART INDIA HACKATHON 2019

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

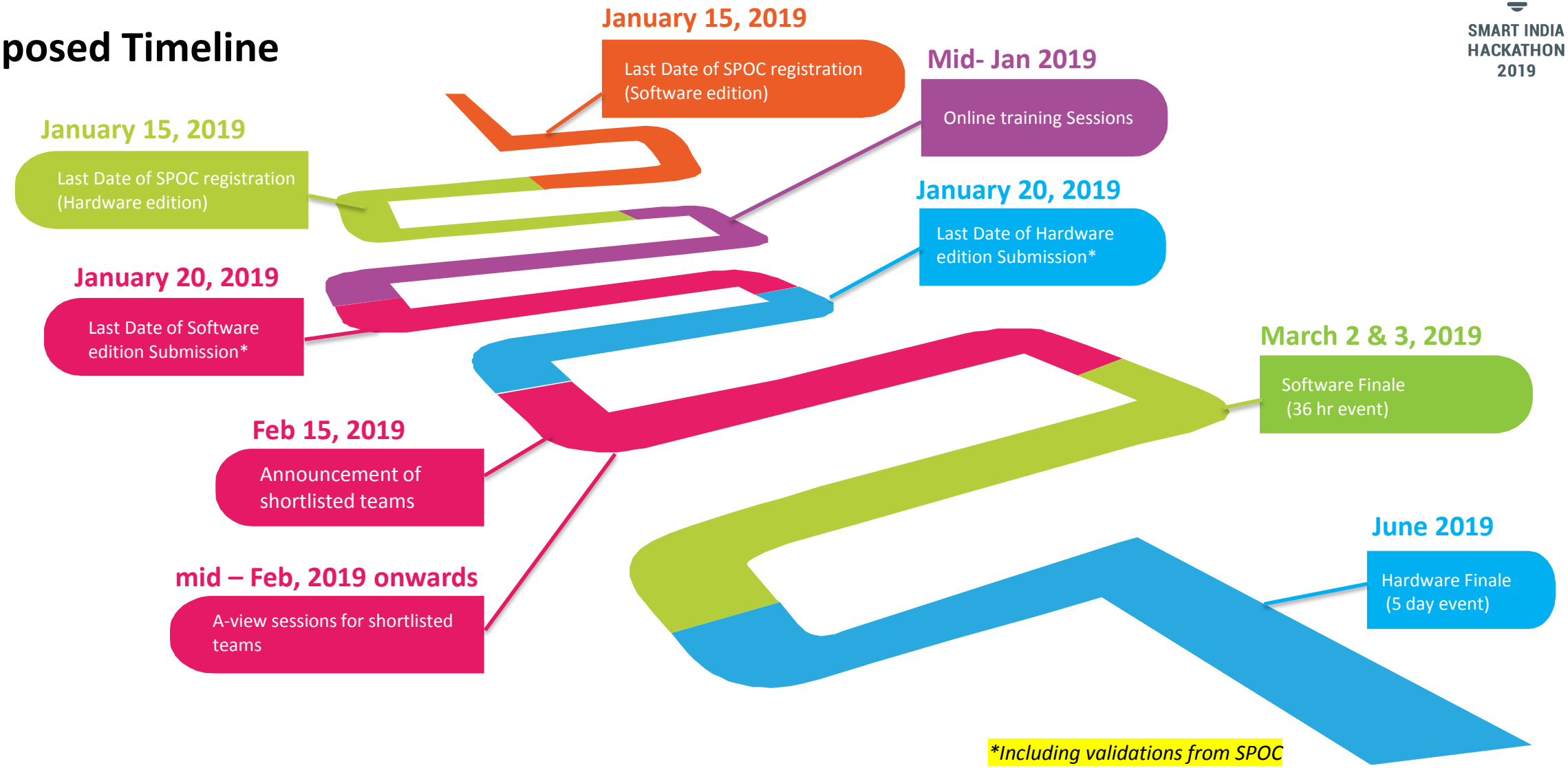
Software Finale : March 2 & 3, 2019 (36 hours event)
Hardware Finale : June 2019 (5 days event)

**Including validations from SPOC*

Smart India Hackathon 2019

SMART INDIA HACKATHON 2019

Proposed Timeline

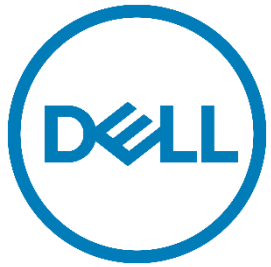


Including validations from SPOC

A Few Statistics…

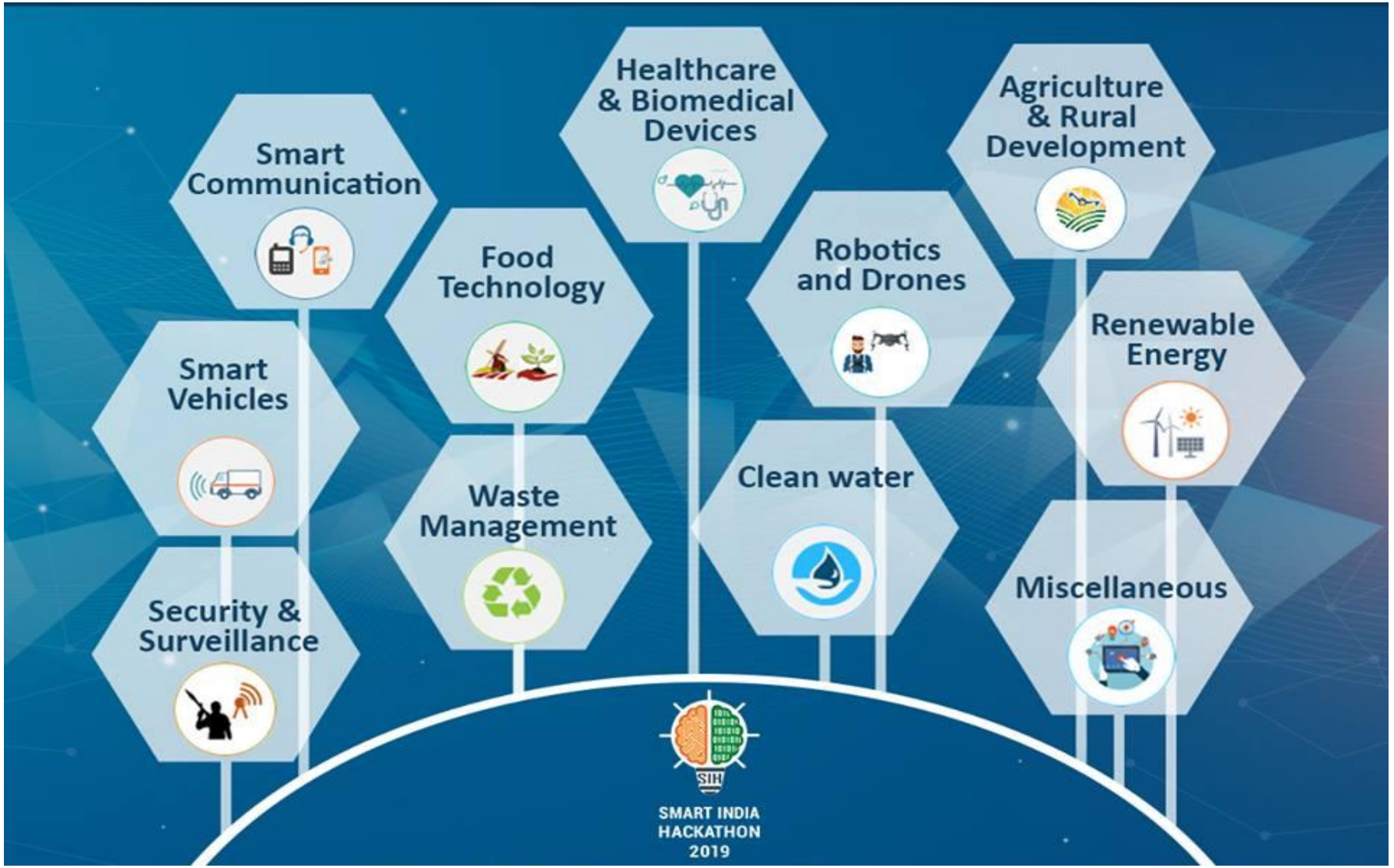
Problem Statements	Industry (95)	Ministry (18)	Student Innovations	Total
Software	208	112	14	334
Hardware	109	79	12	200
Total	317	191	26	**534**

Participating Organizations



Themes for SIH2019

SMART INDIA HACKATHON 2019



Process Flow

SMART INDIA HACKATHON 2019

- 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

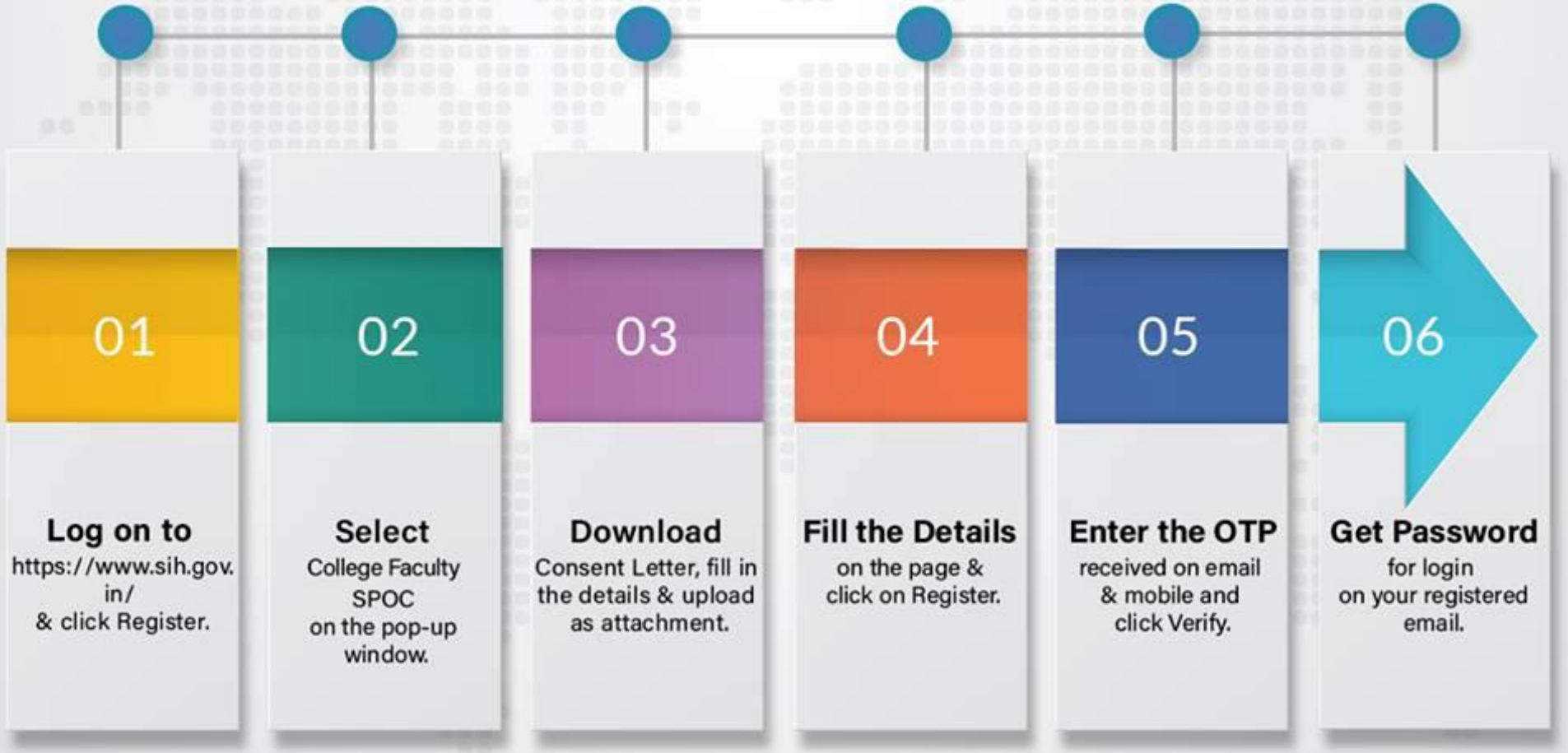
SMART INDIA
HACKATHON
2019

SPOC Registration, Verifying Teams

Institute Single Point of Contact (SPOC)

SPOC Registration Process

SMART INDIA HACKATHON 2019



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.

SMART INDIA HACKATHON 2019

- 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

SMART INDIA HACKATHON 2019

Student Team Registrations, Idea Submission

How to Form a Student Team?

SMART INDIA HACKATHON 2019

- **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!

SMART INDIA HACKATHON 2019

- 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!**

SMART INDIA HACKATHON 2019

< 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				
Team Member				
Team Member				
Team Member				
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 >

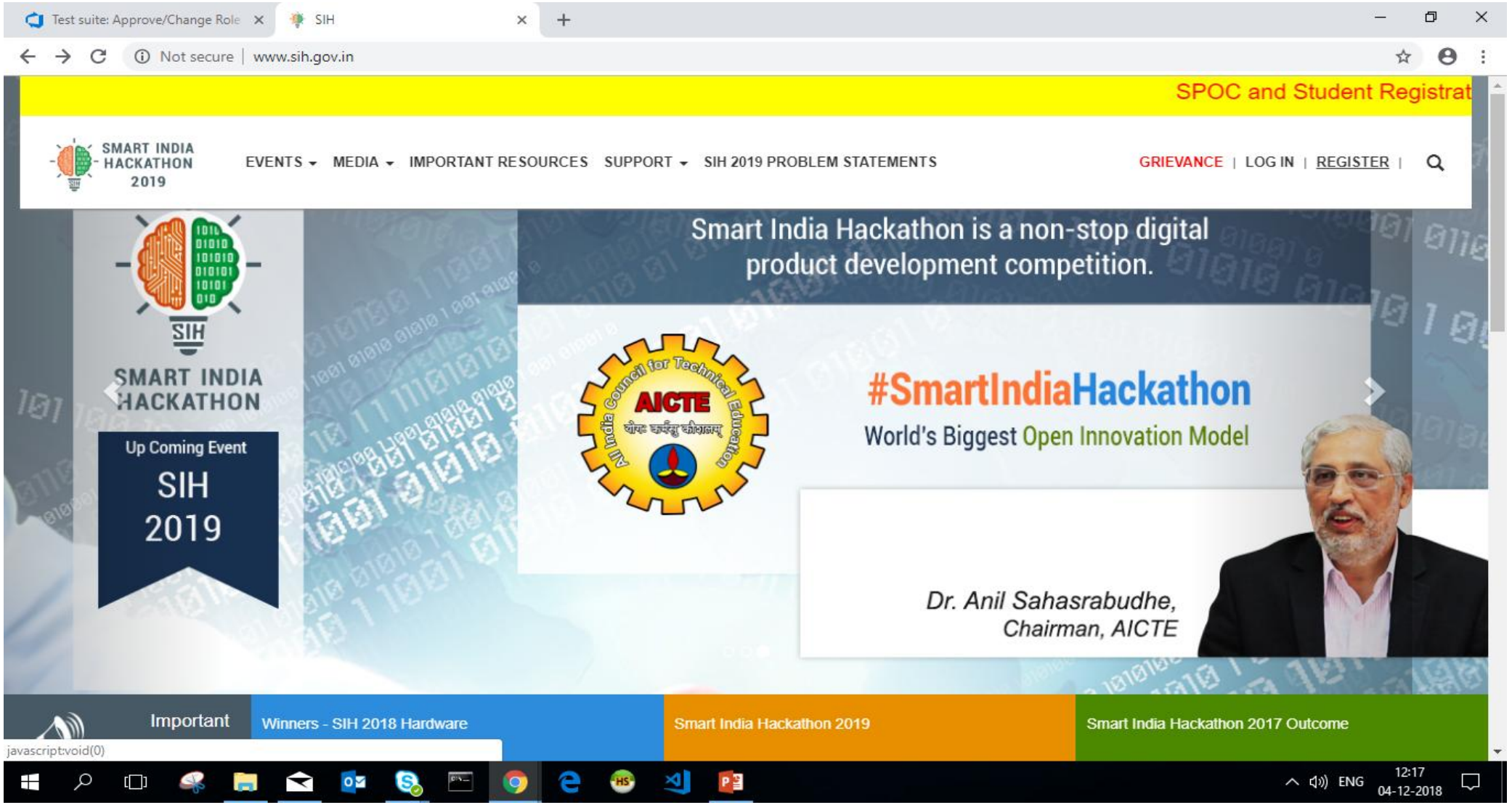
SMART INDIA HACKATHON 2019

Team Registration

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

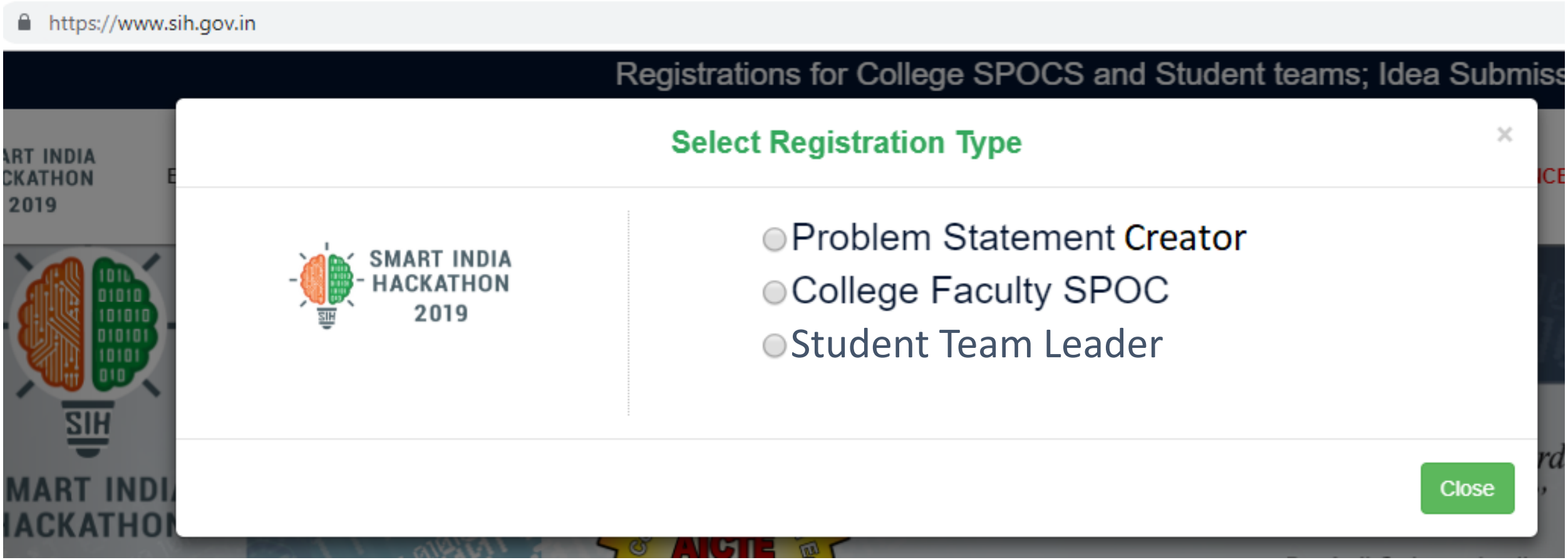
SMART INDIA HACKATHON 2019

- Visit www.sih.gov.in and click on **REGISTER** button on top right side.

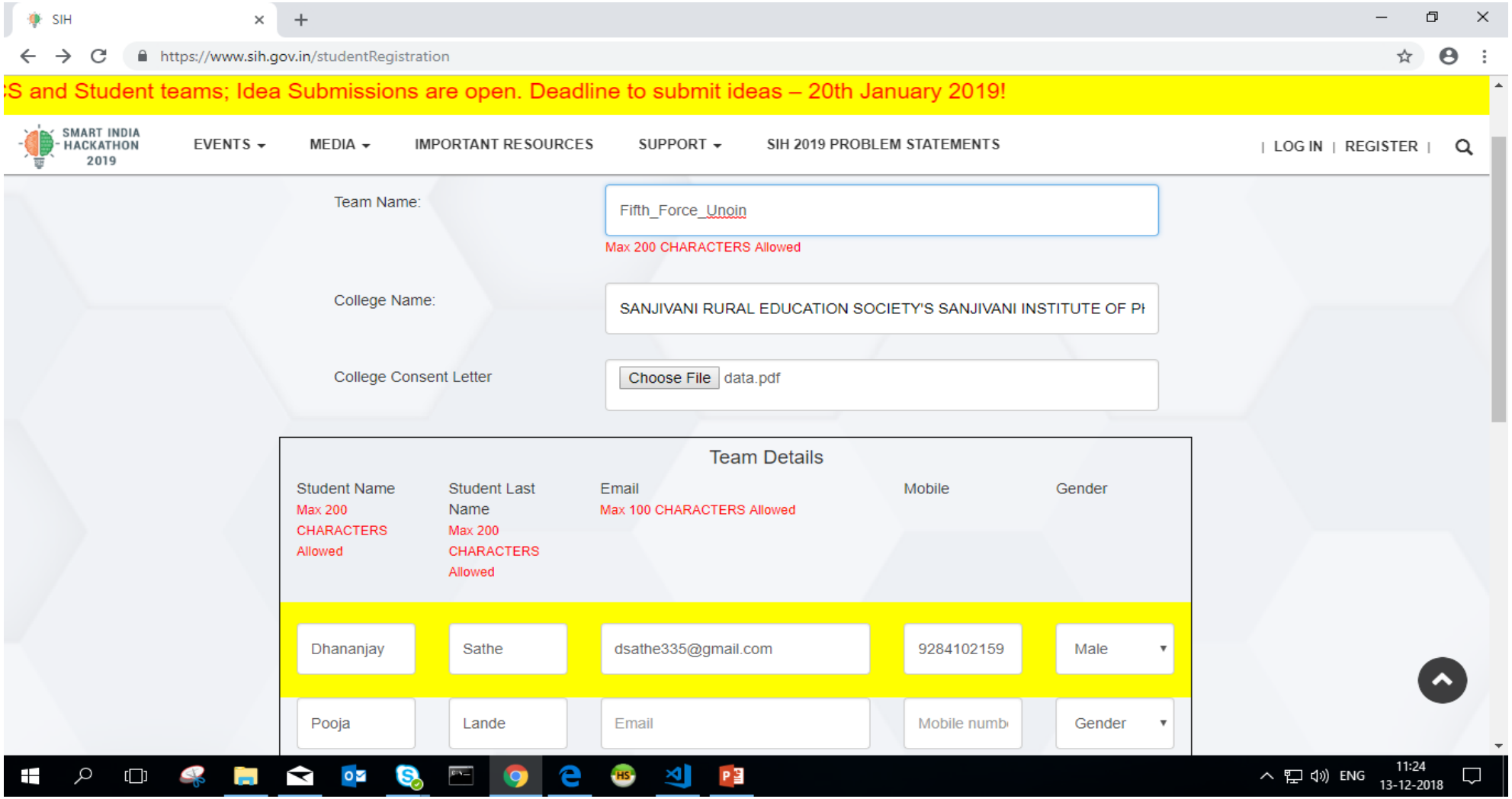


➢ Select radio button of **Student Team Leader**

SMART INDIA HACKATHON

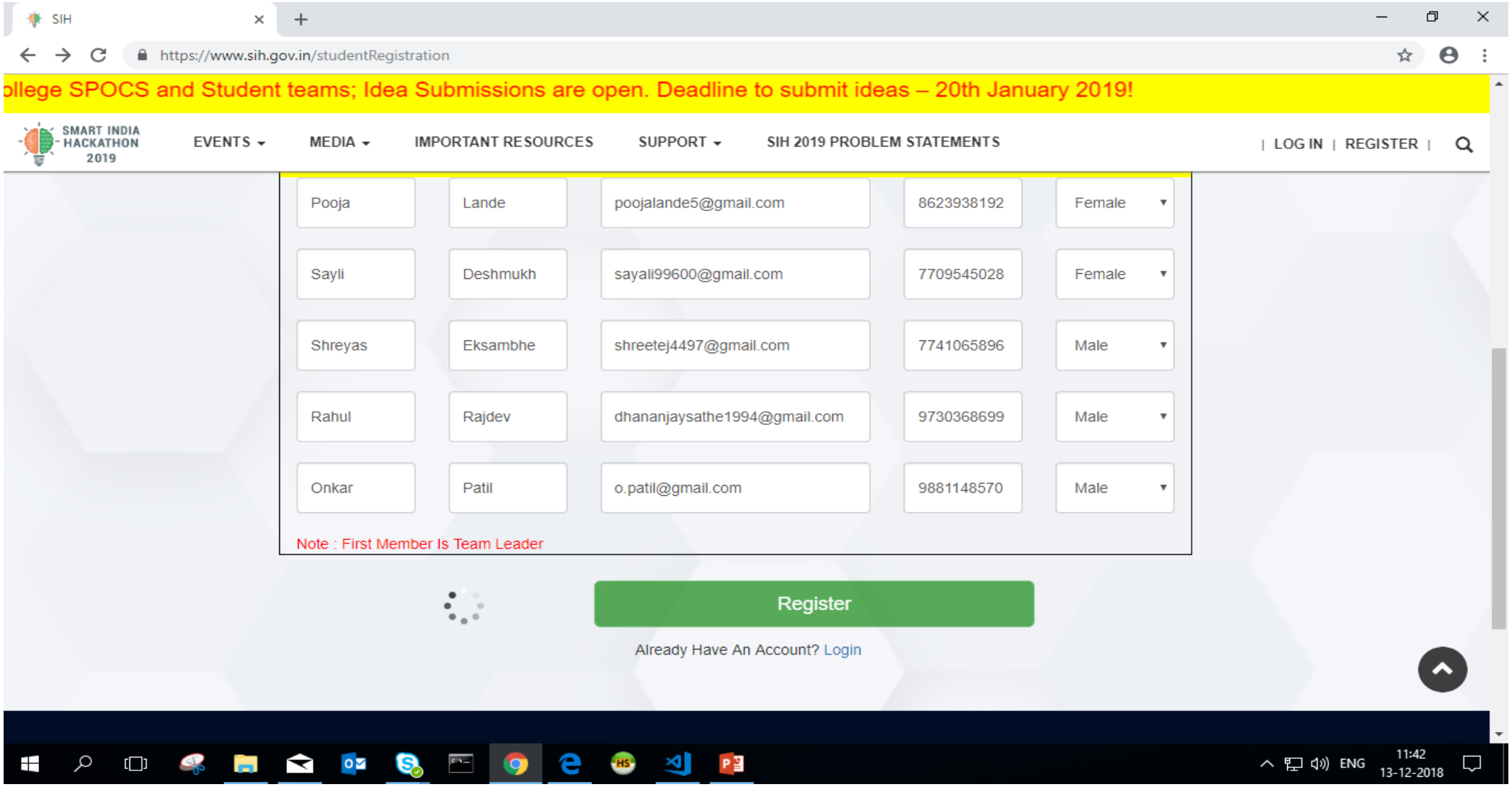


- Fill all the required fields and upload your College Authority Letter in PDF format
- Team name should be unique and system wont accept names already in the database



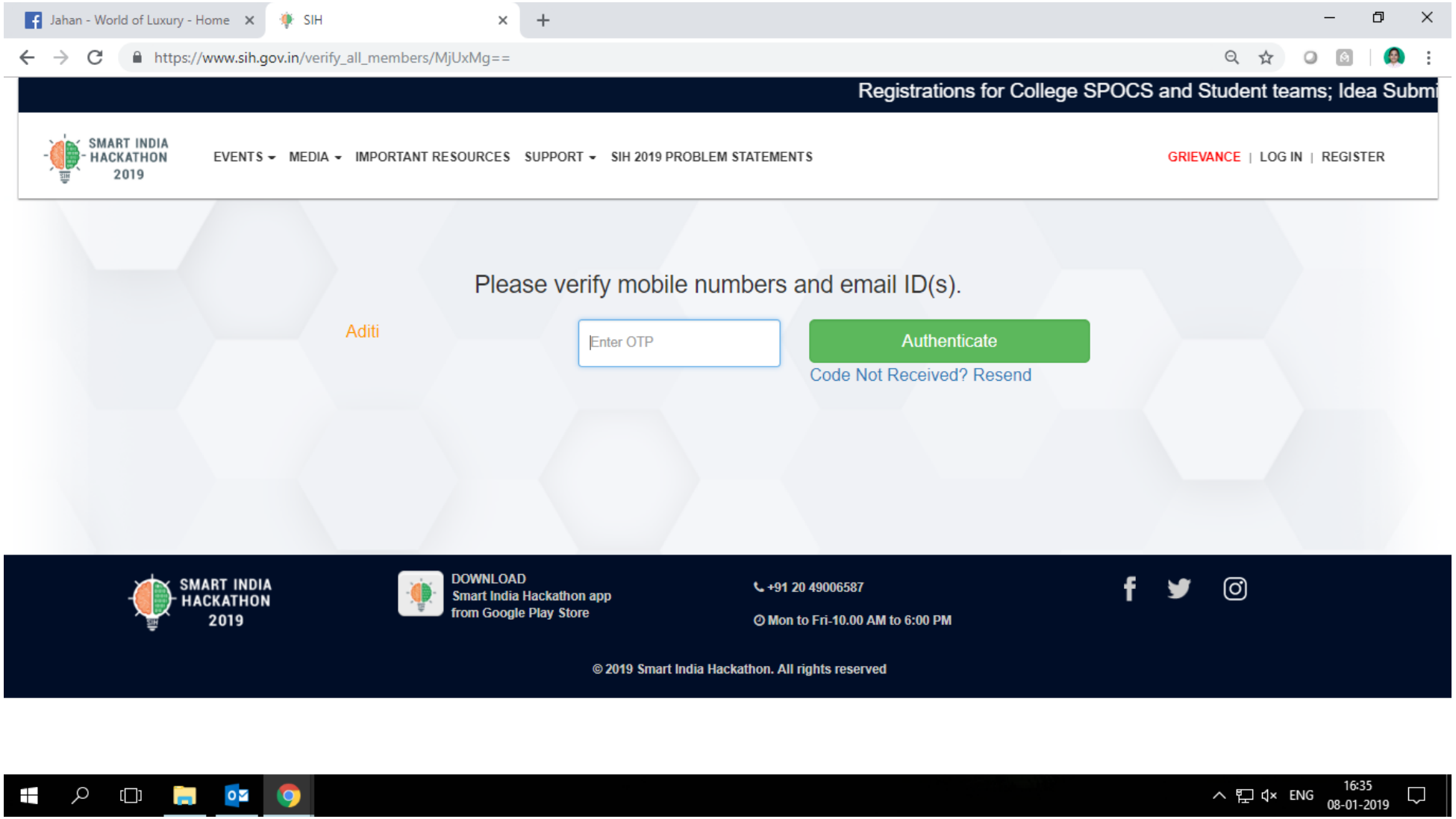
➢ Insert required fields and click on REGISTER

SMART INDIA HACKATHON 2019



➢ **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**

SMART INDIA HACKATHON 2019



SMART INDIA HACKATHON 2019

- 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

SMART INDIA HACKATHON 2019

***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, 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

SMART INDIA HACKATHON 2019

- 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

SMART INDIA HACKATHON 2019

- 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

SMART INDIA HACKATHON 2019

- Keep a track of all announcements and updates on **www.sih.gov.in** as well as the **SIH mobile app**

- … and your email boxes / mobile SMSs

Mentor Nomination

SMART INDIA HACKATHON 2019

- 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

SMART INDIA HACKATHON 2019

- 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

SMART INDIA HACKATHON 2019

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

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

SMART INDIA HACKATHON 2019

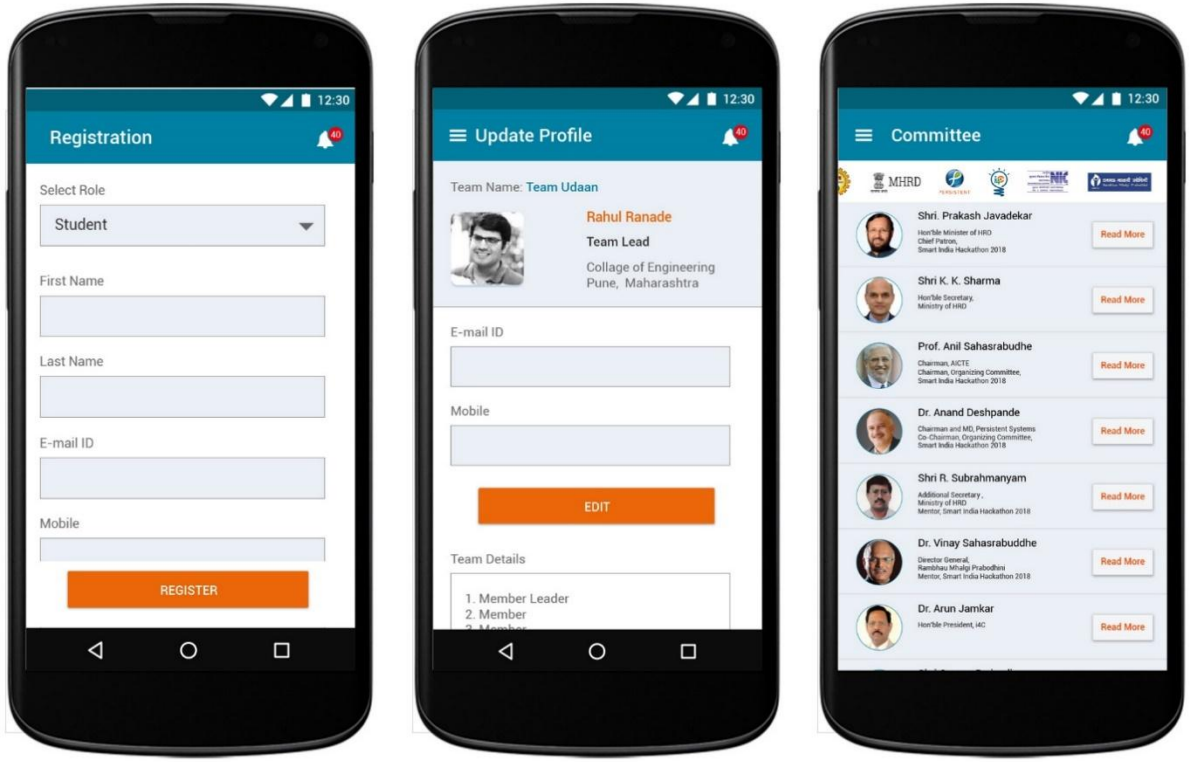
Download Smart India Hackathon SIH App for seamless communication

ANDROID APP ON Google play

- 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

SMART INDIA HACKATHON 2019



Features

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

SMART INDIA HACKATHON 2019

Thank You!

For queries reach out to us on:

sih@aicte-india.org

Find us on social media:

Facebook: www.facebook.com/i4C.India

Twitter: @i4CIndia / @sih2018