

February 2019 Report

Cisco  
thing**Q**inator

Submitted to  
**NASSCOM**  
**FOUNDATION**

Submitted by

project  
**DEFY**  
Design Education For Yourself

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## Operations

**Plan for February 2019:** A fixed set of deliverables planned earlier were maintained in this month by the team -

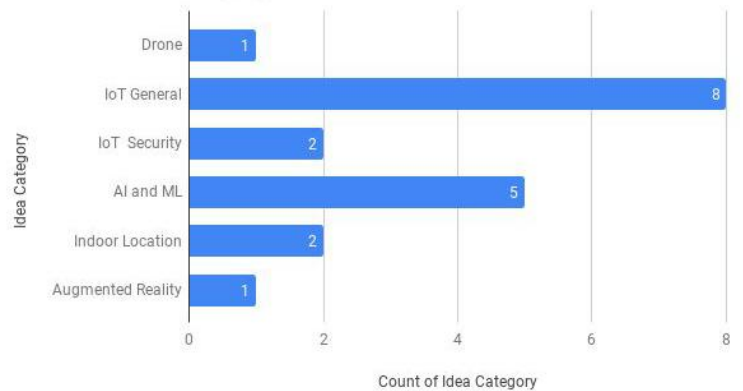
1. Demo Days were carried out and completed successfully at all the Universities.
2. Cohort - 1 Hackathon has been successfully executed at AVV.
3. Cohort-2 application forms has been closed and submitted ideas were evaluated.
4. Cohort-2 teams has been announced at all Universities marking the start of Cohort-2.
5. First Li2 Workshop were successfully conducted at three thingQbator makerspaces.

**Challenges faced in February 2019:** Appointment of the Lab Administrator at all the thingQbator makerspaces.

## Cohort-2

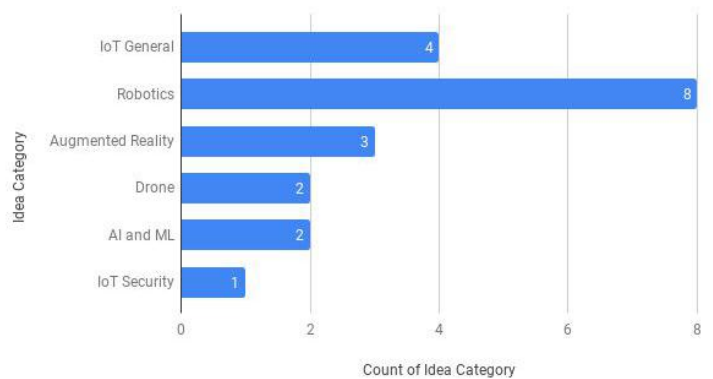
### IGDTUW - Delhi

Number of Applications	80
Number of Applicants	212
Ideas selected for Cohort-2	21
Members in Cohort-2	63
Cohort Start Date	12/02/2019
Number of rollover teams	5



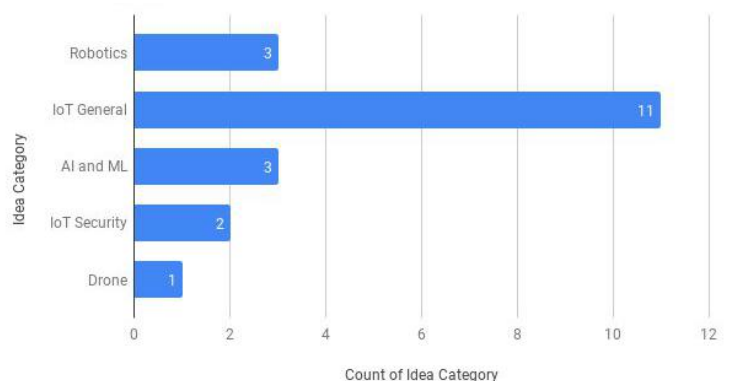
### IIT(BHU) - Varanasi

Number of Applications	37
Number of Applicants	90
Ideas selected for Cohort-2	20
Members in Cohort-2	62
Cohort Start Date	20/02/2019
Number of rollover teams	12



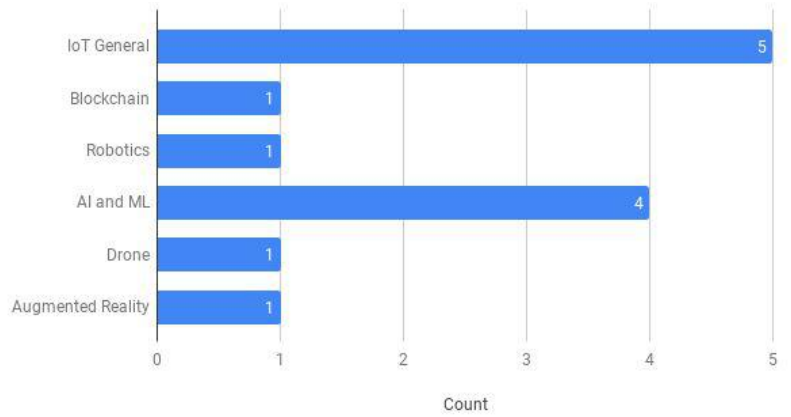
### TAT - Bhubaneswar

Number of Applications	58
Number of Applicants	167
Ideas selected for Cohort-2	20
Members in Cohort-2	50
Cohort Start Date	21/02/2019
Number of rollover teams	2



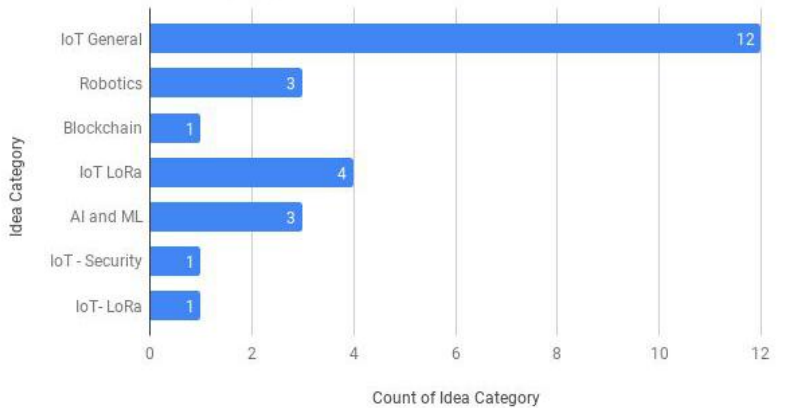
## AVV - Coimbatore

Number of Applications	124
Number of Applicants	369
Ideas selected for Cohort-2	22
Members in Cohort-2	76
Cohort Start Date	19/02/2019
Number of rollover teams	10



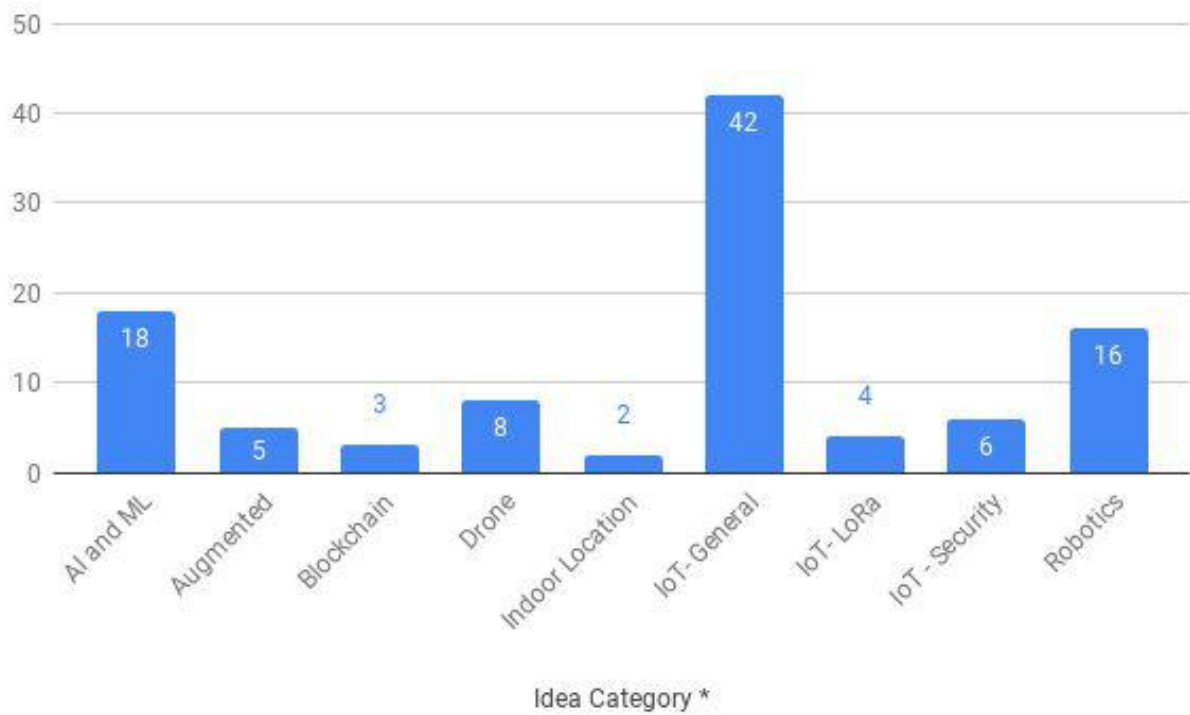
## IITM-K - Trivandrum

Number of Applications	80
Number of Applicants	245
Ideas selected for Cohort-2	28 (17 internal + 11 external)
Members in Cohort-2	89
Cohort Start Date	20/01/2019
Number of rollover teams	7



## Overall Metrics

Number of Applications	379
Number of Applicants	1083
Ideas selected for Cohort-2	110
Members in Cohort-2	336
Number of rollover teams	36



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## Cohort-1 Hackathon

### AVV - Coimbatore

**Date of Hackathon:** 2&3 Feb [9AM to 9PM]

**Total No. of Attendees & Teams:** 21 Teams and 70 participants

**Mentor & Judges:** Prashant, Dheeraj, Sharon, Salman(fablab) and Shuhail(fablab) as mentors and Judge. Dr. A. Balachandran, Deputy Director - CIR, attended as guest.

**Winner of the Hackathon [brief about the project]:** **SMEOZONE** is working on a virtual authentication device which works on blockchain and biometric.



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## Cohort-1 Demo Day

### IGDTUW - Delhi

**Date:** 18 Feb [3PM to 5PM]

**No. of Pitching Teams:** 9 Teams & 30 members

**Dignitaries & Judges on panel:** Anurag [CSR Head (Skills), CISCO], Rajeev Dar- ED [Nasscom Foundation], Dr Arora - CEO Anveshan Incubation and Dr. Amita Dev - VC IGDTUW

#### Prototype Highlights:

**INNOVATORS** are working on an autonomous search and rescue drone. Drone uses automatic beacon localisation to track the stranded user in tough terrains. Team has successfully built a locator for the beacon.

**G GEEKS** has built a system to automate the parking in parking lots as well as the streets. It take cares of the billing too in paperless method. The team has a MVP in place and has deployed it in the University campus along with a chatbot.

**THINKOVATERS** are working on a device to detect fall in elderly and alert the caretaker. Currently team is doing more user base research and user validation.

**INDIGO** are working on a platform to detect and assist user who might be suffering from a chronic neurodegenerative diseases like alzheimer's, utilizing ML algorithms.

**BLITZ** are developing a device which can detect various stages of breast cancer, using ML and image processing.



## IIT(BHU) - Varanasi

**Date:** 10 Feb [10AM to 1PM]

**No. of Pitching Teams:** 14 Teams & 40 members

**Dignitaries & Judges on panel:** Dr. SN Upadaya - Former Director IIT(BHU), Prof PK Misha - Coordinator MCIIE, Sumeet Arora - SVP Engineering CISCO, Vish Iyer - VP Sales CISCO, Suhas Mansingh - VP Engineering CISCO, Chandrashekar Raman - Global Lead thingQbator, Inbkumar Joshua - Program Manager thingQbator, Megha - Director Project DEFY

### Prototype Highlights:

**DOCTOR AROUND YOU** is platform to connect doctors to the patient. It works like a Uber for doctors. Team is polishing up the webapp with UI/UX iterations. The team is a registered startup.

**EAGLE EYE** has connected a sensor module to drone which can take air quality readings from multiple points and chart a map of pollution. The drone moves autonomously and reduces the cost of capex needed to build multiple air monitoring towers.

**IRON FIST** has developed a low cost bionic prosthetic arm which works with a simple interface. And looks realistic which helps with avoiding the social stigma to the wearer.

**SMART DUSTBIN** has come up with a social responsibility platform with incentivizes the user in form of redeemable points for each time user makes use of this smart dustbin.

**NIROL** is a team of tenth grade school students, who have devised a novel way to find adulteration in petrol using its optical characteristics.





## TAT - Bhubaneswar

**Date:** 1 March [11AM to 1PM]

**No. of Pitching Teams:** 10 Teams and 26 members

**Dignitaries & Judges on panel:** Dr. Deba Narayan Pattnaik - Dean TAT, Nirupam Chaudhuri - Regional Director NASSCOM, Inbkumar Joshua - Program Manager thingQbator, Megha - Director Project DEFY

### Prototype Highlights:

**TEENOVATION** has developed a POC for a connected smart lpg cylinder roller, which can alert the user in case of gas leakage and also when the cylinder is about to run out of gas.

**TECH TINKERS** has developed a app and hardware based public toilet cleanliness monitor platform called Swacchalaya. This system helps the user to navigate to closest public toilet and also give feedback on cleanliness.

**TECHBOOSTERS** has developed a POC which can detect avalanche in advance and alert the user. The system relies on various environmental parameters to determine the probability of an avalanche happening.



## AVV - Coimbatore

**Date:** 27 Feb [11.30AM to 4PM]

**No. of Pitching Teams:** 20 Teams and 70 members

**Dignitaries & Judges on panel:** Dr. A. Balachandran - Deputy Director CIR AVV, R Krishnan - Head ACE AVV, Santosh Abraham - VP NASSCOM Foundation, Abhijit Sinha - CEO Project DEFY, , Chandrashekar Raman - Global Lead thingQbator, Inbkumar Joshua - Program Manager thingQbator.

### Prototype Highlights:

**SMEOZONE** is working on a virtual authentication device which works on blockchain and biometric. Team is working on wearable wristband for the next iteration.

**SAK** has developed a POC to monitor a workers efficiency using several parameters. The team has won many Hackathon prize money and grants and now has their own startup.

**BEND** has developed a POC to make physiotherapy more approachable through gamification. User plays a VR game which exercises his/her back muscles.

**VINDICATOR** is trying to build a system which can detect forest fires, using image processing algorithms running on feed from a camera onboard a drone or RC aircrafts.



## IIITM-K - Trivandrum

**Date:** 23 Feb [3PM to 5PM]

**No. of Pitching Teams:** 8 Teams and 23 Members

**Dignitaries & Judges on panel:** Prof. Saji Gopinath - Director IIITM-K, Ashok Pamidi - CEO NASSCOM Foundation, Prasad Balakrishnan - CEO Maker village, Chandrashekar Raman - Global Lead thingQbator, Inbkumar Joshua - Program Manager thingQbator, Megha - Director Project DEFY

### Prototype Highlights:

**SMART VENT** is working on a smart vent which monitors the room's oxygen and humidity and circulates air from outside if needed.

**FIGHT FIRE** is prototype by Muhammed Zain, a high schooler. This IoT device can detect and alert the user of a fire.



## February 2019 - Highlights

### Best Practices from all thingQbators

- All thingQbator makerspaces hosted a open house for ideation and shortlisting of Ideas application for Cohort-2. Overall more than 80 teams visited thingQbator for the open house.
- thingQbator AVV hosted one day tech-community meetup at the university, which saw a participation from 7 communities across India.

### IGDTUW - Delhi

**AKGEC Workshop:** Cohort-1 & Cohort-2 teams attended a workshop at AKGEC on 12 Feb. The workshop consisted of various hand-on session on SCADA, Hydraulics, Pneumatics systems.



**SIH - 2019:** Cohort-1 members won the software edition of Smart India Hackathon 2019



## IIT(BHU) - Varanasi

thingQbator IIT(BHU) setuped stall at the IIT(BHU) Centenary celebration expo. Cohort-1 teams showcased their projects, and representatives from NASSCOM Foundation interacted with visitors and talked about thingQbator at Universities program.



## TAT - Bhubaneswar

**GitHub Session:** This session Yashovardhan Agarwal(OOPEN SOURCE DEVELOPER) was focused on importance of Git in building one's profile, how to make a repository, how a linked list is related to working on git and how to be a part of Open Source Coders community. The session saw a total participation of 65 students, a mix of Cohort and non-Cohort members.



**TriThon - 2019:** Eight Cohort-1 members participated in the TriThon 2019 hosted by TAT. Team comprising of Cohort members won 2nd prize.



**IOT Exploit:** This event organised by thingQBator TAT for the college tech-fest saw participation by 8 teams from the college. The winning team received a cash prize of ₹ 5000.



## AVV - Coimbatore

**Tech Community Hub:** A networking event organized by thingQbator AVV, saw a participation of 7 communities and 100+ students. The primary goal of this event was to expose the students of AVV to the tech communities and maker-culture. More than 60 students and professors got connected to these communities and expressed interest to learn further being part of the communities. Several Cohort-1 teams are being helped by the community members of communities relevant to the technology of their prototypes. Below Communities participated in the event.

- **GDG** - Google developers group :
- **Hackster.IO** - Global hardware developer community.
- **Pehia** - Women in tech.
- **Openlabs**- AI- ML communit from kochi
- **Fablab**- Global fabrication makerspace community.
- **Foxlab**- Makerspace from Malabar, Kerala
- **Unity Workbench**- AR/VR community



SIH-2019: Team Smells Like Team Spirit from Cohort-1 participated in software edition of Smart India Hackathon 2019 and were selected for Grand Finale.



NEC Hackthon: Team SAK won first prize and a cash reward of ₹1.5 Lakhs.





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## IIITM-K Trivandrum

**Kasaragod Hackathon:** Team Smart Vent won this Hackathon organized by Kerala Startup Mission.



## Inventory Updates

The entire Inventory has been maintained at the common Project Folder [here](#).

## Tech Mentorship at all thingQbator [February 2019]



Name of thingQbator	Number of Sessions	Number of Teams Mentored
IGDTUW - Delhi	6	7
IIT(BHU) - Varanasi	8	12
TAT - Bhubaneswar	5	8
AVV - Coimbatore	6	10
IIITM-K - Trivandrum	4	6

## thingQbator footfall [February 2019]

Name of thingQbator	Unique/Individual Footfall	Total Footfall
IGDTUW - Delhi	60	320
IIT(BHU) - Varanasi	50	120
TAT - Bhubaneswar	156	628
AVV - Coimbatore	80	250
IIITM-K - Trivandrum	50	200

## Calendar Snapshot

A	B	C	D	E	F
Date	IITM-K	Amrita	TAT	BHU	IGDTUW
Thu, Jan 31, 2019	Internal		GitHub Event		
Fri, Feb 1, 2019	Internal		Vacation		Vacation
Sat, Feb 2, 2019			Vacation		Vacation
Sun, Feb 3, 2019					
Mon, Feb 4, 2019	Internal		Vacation		
Tue, Feb 5, 2019	Internal		Vacation		
Wed, Feb 6, 2019	Internal		Vacation		
Thu, Feb 7, 2019	Internal				
Fri, Feb 8, 2019	Internal				
Sat, Feb 9, 2019					
Sun, Feb 10, 2019				Demo Day	
Mon, Feb 11, 2019	Internal				
Tue, Feb 12, 2019					Cohort-2 Begins
Wed, Feb 13, 2019					L2 Workshop-1
Thu, Feb 14, 2019		Community Hub			L2 Workshop-1
Fri, Feb 15, 2019		Internal			
Sat, Feb 16, 2019		Internal			
Sun, Feb 17, 2019					
Mon, Feb 18, 2019		Internal	Internal	Exam	Demo Day
Tue, Feb 19, 2019	Internal	Cohort-2 Begins	Internal	Exam	
Wed, Feb 20, 2019	Cohort-2 Begins	Internal	Internal	Cohort-2 Begins	
Thu, Feb 21, 2019	Internal	Internal	Cohort-2 Begins	Exam	
Fri, Feb 22, 2019	Internal	Internal	Internal	Exam	
Sat, Feb 23, 2019	Demo Day	Internal	Internal	Exam	
Sun, Feb 24, 2019			IOT Exploit		
Mon, Feb 25, 2019	Internal				
Tue, Feb 26, 2019	Internal		L2 Workshop-1		Exam
Wed, Feb 27, 2019	Internal	Demo Day	L2 Workshop-1		Exam
Thu, Feb 28, 2019					Exam
Fri, Mar 1, 2019			Demo Day	L2 Workshop-1	Exam
Sat, Mar 2, 2019				L2 Workshop-1	

[ [Calendar Snapshot Link](#) ]



## Conclusion

**Plan for February 2019:** All the thingQbator will gear up for the Second and third Li2 workshops. Additionally mid Cohort Hackathon are slated to begin in March.

All the thingQbator are working in a growing and evolutionary manner. All the Cohort-2 as well as Cohort-1 rollover students are working actively and there is significant growth .

