

IEEE S.P.I.T (2018-2019) Annual Report

Members of IEEE core committee for the academic year 2018-19:

Kamini Budke (Chairperson)

Pooja Phirke (Vice-Chairperson)

Rashmi Phadnis (Secretary)

Arnold Fonseca (Head of Finance)

Shivani Khamitkar (Head of Events)

Amogh Zare (Head of Operations)

Chetna (Head of PR)

Omkar Patil (Head of Marketing)

Sr. No.	Event	Date	Description	Usage	No. of attendees
(2018-2019)					
1.	Aarambh	9th & 10th August	IEEE Aarambh was a two-day fun event organized as an ice-breakers event to eliminate the feeling of unease every junior goes through when they enter a new college as they are not acquainted with their new surroundings and people around them.	Communication Team work	80-90
2.	Monsoon Trek	11th August	Around 100 students from branches like ETRX, EXTC	Communication Team work	100

			and MCA gathered at the college at 6 in the morning on 11th of August for the trek. The party then set out for Kothaligad in Karjat. The trek was overseen by professional guides and was filled with muddy tracks, cascading waterfalls, lush greenery and laughter.		
3.	IEEE orientation	6th September	The core committee held an orientation for the first years to show just how beneficial being a member of an illustrious community like IEEE can be.	Communication Engineer and society	50
4.	Competitive Coding Workshop	2nd October	As a celebration of IEEE day, the	Space and time complexity, data	15

			workshop presented the students with a chance to test their mettle in competitive coding by preparing them for the same.	structures and dynamic programming	
5.	Project Innovation Challenge	8th-18th October	Following the process of competitions like Texas Instrument IICDC, Smart India Hackathon and many others, the competition involved three rounds right from presenting the project abstracts to building their prototype	Inculcate a spirit of innovation in tomorrow's engineers	60
6.	IEEE Xtreme	20th October	24 hour programming contest for students to showcase their coding abilities. And to		

			<p>promote the brand of IEEE and IEEE Xtreme so that there is more participation in coming years.</p>		
7.	<p>Technical Convention by GitHub</p>	<p>25th January</p>	<p>The convention saw leading experts from the industry give talks on their respective fields. The convention ended with a representative of GitHub highlighting the various advantages of open source coding.</p>	<p>The importance of open sourcing</p>	<p>40</p>
8.	<p>Complete Web Development Workshop and Competition</p>		<p>Hone and develop the college freshmen's skills in web development</p>	<p>Learning HTML, CSS, Bootstrap, Javascript</p>	<p>15</p>
9.	<p>IoT Workshop</p>	<p>30th-31st March</p>	<p>Equipped with take-away</p>	<p>Integrating ESP8266 and MQTT</p>	<p>15</p>

			development kits, each team was to utilize the knowledge gained over the workshop to build a Laser Tripwire project which would send a notification when tripped.	protocol	
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1. Aarambh

The academic year 2018-2019 saw the IEEE Student Chapter of SPIT flourish. The odd semester started with IEEE's ice-breakers for the FEs - Aarambh. The event which was held on the 9th and 10th of August, 2018 had all the First Year students enjoying. There were a plethora of events such as a treasure hunt, Hogathon and GeetGeek. It was an opportunity for the fresh-faced FEs to interact with their seniors in an informal setting. The FEs turned up in big numbers to take this chance and gain an insight into the highs and lows of pursuing engineering.

2. IEEE Monsoon Trek

After enjoying a successful execution of Aarambh, IEEE followed up with the much awaited Monsoon trek for students from all years. Around 100 students from branches like ETRX, EXTC and MCA gathered at the college at 6 in the morning on 11th of August for the trek. The party then set out for Kothaligad in Karjat. The trek was overseen by professional guides and was filled with muddy tracks, cascading waterfalls, lush greenery and laughter.

3. IEEE Orientation

After giving the students a taste of what IEEE can do, the core committee held an orientation for the first years to show just how beneficial being a member of an illustrious community like IEEE can be. The orientation, held on the 6th of September, was a platform for showing how wide the reach of IEEE was internationally as well as within the country. The chairperson, Kamini Budke, explained the various divisions of the committee which span country-wide. The Vice Chairperson of the committee, Pooja Firke, then gave the students a brief rundown of the various events which are going to be held throughout the current academic year.

The dais was then handed over to the chairperson of the Women In Engineering (WIE) branch of IEEE, Siddhi Korad. The stage was finally taken over by the Student chair for IEEE Bombay section, Professor K.T. Talele. Having had 24 years of teaching experience, sir shared his expertise with the FE's. "Learning happens when you interact, interactions happen with the avail of opportunities, opportunities present themselves when you are part of a community," said Talele sir. He elaborated on the importance of the presenting yourself as a part of society. Post this, Ambawade sir, the faculty mentor, gave his valuable inputs on the functionality of IEEE and gave his best wishes for future endeavors.

4. Competitive Coding Workshop

After a couple of non-technical events to get the ball rolling, IEEE presented the students with a chance to test their mettle in competitive coding by organizing a workshop to prepare them for the same. Held on the 2nd of October, the event was held as a celebration of IEEE Day. It was hosted by Tej Thakkar, a senior from IT, who was ranked first in Mumbai in ACM ICPC 2017. He started off by introducing the students to competitive programming and how it entails real life problems and strives to come up with solutions for them. Talking a little bit about space and time complexity, he elaborated on the Big-O notation. He then briefed the attendees on data structures like queues, stacks, graphs and trees followed by an overview of dynamic

programming. The workshop served as a stepping stone for beginners to try their hand at competitive coding competitions like IEEE's very own IEEE Xtreme.

5. Project Innovation Challenge

Innovation is what separates the everyday engineers from the true unorthodox problem-solvers. To inculcate a spirit of innovation, IEEE organized the Project Innovation Challenge from 8th-18th of October. Following the process of competitions like Texas Instrument IICDC, Smart India Hackathon and many others, the competition involved three rounds right from presenting the project abstracts to building their prototype. The first round was judged by the ex-core of IEEE who have demonstrated their skills in many such competitions. The final round had Prof. Vijaya Kamble, the head of IEDC, along with Prof. Aarti Karande, the faculty mentor of WIE, as judges. With over 20 teams of FEs and SEs taking up the challenge, only 5 of them made it to the final round. With a unique idea on 'Waste Management System' the team under the leadership of Shivani Nimbire won the panel over. The 'Universal Operating App' spear-headed by Srushti Yadahalli bagged the second place.

6. IEEE Xtreme

20th of October saw SPIT acting as host to _ teams for IEEE Xtreme - the 24 hour long coding competition. Around 28 teams from FEs, SEs, TEs and BEs worked their grey cells to crack open the various problem statements set forth. This year saw the biggest participation from our college for Xtreme. The teams burned the midnight oil to keep working on the problems which proved to be head-scratchers. The team Techspawn secured the 10th rank nationally.

7. Technical Convention by GitHub

The even semester started off with a technical convention hosted by IEEE S.P.I.T and sponsored by GitHub on the 25th of January. With a participation of students from outside college as well, the convention saw leading experts from the industry give talks on their respective fields. The convention ended with a representative of GitHub highlighting the various advantages of open source coding.

8. The Complete Web Development Workshop and Competition

The Complete Web Development Workshop and Competition, encouraged the college freshmen to develop and hone their skills in website development. Lead by Sayli Uttarwar, a fourth year student from IT, the workshop focused on front end development with the aid of CSS, Bootstrap and JavaScript. The workshop witnessed enthusiastic participation followed by the online quiz which constituted the first round of the competition phase. The teams were awarded points based on their scores and these points were to be used to bid on JavaScript and Bootstrap components. The final stage revolved around building their own website, based on the granted problem statement. The catch was that the teams could depend on only the components that they had won in the previous round apart from HTML and CSS.

9. The IOT workshop

The IOT workshop - Adding WiFi to technical projects, was held over the 30th and 31st of March. Under the tutoring and guidance of Chirag and Srijal, fourth year students of the Electronics Department and winners of EYantra 2017, the hands-on workshop aimed to demonstrate the incorporation of ESP8266 and MQTT in student level projects. Equipped with take-away development kits, each team was to utilize the knowledge gained over the workshop to build a Laser Tripwire project which would send a notification when tripped.

This year saw the introduction of many technically innovative events such as the Project Innovative Challenge and also followed up on the annual ones including IEEEXtreme. We are extremely proud of the achievements of the IEEE S.P.I.T team over 2018-2019 and hope for successful endeavours ahead.