Report on CSI Activities for the AY 2017-18

Computer Society of India is a professional society of Computer Engineering Department. The CSI committee is formed for the academic year 2017-18 and the details are given below:

Convener (Faculty)	Ms. Shweta Tripathi
Chairman	Ms. Gloria Benny
Vice- Chairman	Mr. Dheeraj K.
Secretary	Mr. Leah Abraham
Treasurer	Ms. Sreenidhi K. V.
Executive Members	Mr. Rohan Moraes
	Ms. Frezy Roy
	Mr. Rushikesh B
	Mr. Khitij B

The various activities were conducted under the banner of CSI. This report consists of details of all the activities.

CSI – FCRIT Second Half of 2017

This academic year, the Department of Computer Engineering conducted various exciting activities for the students' overall growth and development. Towards the end of the first half of 2017, the second year students were given a competitive platform to participate in the summer project competition conducted by the computer department under CSI - CRYPTEX. All the groups got a wonderful opportunity to showcase their talents and skills as the next semester after the summer vacation commenced. A "Summer Mini-Project Evaluation" event was conducted by the department where all the innovative projects were exhibited. The best projects were announced as winners towards the end of the 'project exhibition day'. The CSI - CRYPTEX also conducted various other coding events in this semester where the students participated enthusiastically.

The major event being the seminar was conducted on 17th August, 2017 in the college seminar hall. The seminar started with the inauguration function in the morning. The highlights of the event

were delivered by the CSI president, Ms. Gloria Benny. The speech given by Dr. Lata Ragha, the computer department HOD emphasized the importance of using technology in a sustainable manner. Her speech markedly dotted the theme of the seminar – "Role of Technology and Environmental Issues". The dignitaries present were the Principal – Dr. S. M. Khot, the Assistant Managing Director – Dr. Fr. Ivon Almeida, the HOD – Dr. Lata Ragha, the convener of CSI – Mrs. Shweta Tripathi, and the convener of CRYPTEX – Mrs. Shagufta Rajguru.

The felicitation ceremony of the summer project winners was awarded certificates and prizes by Dr. Fr. Ivon Almeida. The winners are as follows:

First Prize –
1. Deepti Paul, Felix Biju, Frezy Roy, Jithin Jose; 'Vehicle Theft Detection'.

Second Prize –
1. Dheeraj Kallakuri, Vinayak Kurup, Sharon Laurance, Madhura Dumbre; 'Pi - Bot'.
2. Annapurna Pandita, Rohan Dominic, Sheldon Karkada, Sharath Sasidharan; 'Smart Drive'.

Third Prize –
1. Robin Jaison, Shanita Sojan; 'Queue Reduction System in Canteen'.
2. Sujit Amin, Leo Varghese, Lijo Varghese, Pheba Babu; 'Smart Pantry'.

The inauguration ended with the vote of thanks delivered by Mrs. Shweta Tripathi.

The seminar day was divided into three brief sessions. The first part was taken by our chief guest, Dr. Bakul Rao, who has successfully done her PhD at IIT Bombay. She gave an informative session highlighting the importance of using technology in an eco-friendly manner and promoting sustainable development. She also spoke about their initiative called "CTARA" which was started in 1985 at IIT Bombay. This is a centre for technology alternatives for rural areas aiming to get every engineering field towards the development even in the rural areas. They also offer UNICEF and Ministry of Rural Development fellowships to interested students.

Dr. Pravata Mohanty from Tata Institute of Fundamental Research (TIFR) pioneered the second half, he gave a brief informative session on the topic "Solar Storm and its effects on Earth". Students were mesmerized with his intelligent inputs on terms like 'Coronal Mass Ejections (CMEs)', cosmic collisions, super volcanoes, solar flares, etc. and how these things can have harmful effects on Earth. He also spoke about GRAPES-3(An India – Japan collaboration for the world's most sensitive Muon Telescope).

The third part of the seminar was taken by Mr. Ajay Pawar, IRS who is a FCRIT Alumni 2010 computer engineering graduate. He delivered an interactive session for the students present. He

spoke about competitive exams for further studies in India after engineering like CAT, GATE, UPSC Exams. He also enlightened us about the important life skills one should have as well as the necessary things required to be a successful and a happy person in life.

CRYPTEX had some various exciting workshops and coding competitions conducted under it. Some of the exciting and informative workshops which were conducted by third comp year students were- Machine Learning, Arduino and Android workshops. All these workshops had a very positive response from the students who enthusiastically attended the workshops.

- The Machine Learning workshop taught the students the different types of algorithms and their applications in the day-to-day life. The software tool used was Octave 4.2.1.

- The Android workshop was conducted to impart the basics of Android app development to students using the Android Studio how to build a simple Android app.

- The Arduino workshop imparted the knowledge and skills of programming a simple Arduino Uno board which was done using an IDE and an Arduino simulator. Students who attended these workshops were highly benefitted due to their eagerness to learn new things.

There were two competitions conducted under Cryptex which was organized by third year students: **Decrypto and technical treasure hunt.** The winners of the events were awarded prizes and all the participants were benefitted with competitive environment experience.

The CSI Seminar and the CRYPTEX event was a success due to the collaborative efforts of the third year computer students and the teachers. The planning, organization and execution of a successful event was appreciated by all who were present. An active role was played by the teachers overseeing the students for ensuring a smooth flow of events.

CSI-FCRIT First Half 2018

CSI FCRIT scaled even greater heights in the first half of the year 2018.

Pre-events of CSI Technext-2018

The CSI events Hackathon and Technical Paper Presentation (TPP) were conducted as pre-events for the Mumbai Chapter of CSI Technext 2018 in association with IIT Bombay. Mr. Ajit Joshi, the Secretary of CSI, was the Chief Guest for the event.

1. CSI Hackathon

The competition began at 7 am on the 3rd of February. It was a 12-hour Hackathon. The participants had chosen their problem statements from a number of domains such as Block chain, Machine Learning or AI. The participants armed with great coding skills, had to work upon finding the most efficient solutions in the least time possible. It was a race against time. Ms. Shilpa Karkera, the CEO of Myraa Technologies, was the main judge of the competition. There were also a number of her employees present who assisted the participants whenever they needed help. There were breaks in between in which Ms Karkera boosted the morale of the participants. She gave an insight into her company and also had her team members explain a few of their projects. A quiz was also conducted. As the clock struck seven in the evening, the teams had reached the completion of their projects and were content with having given their best. A few awards for fun were given at the end of the day. On the 4th of February, all the teams gathered for the final lap and gave presentations on their solutions. The winners were announced at the end and then felicitated by Ms. Karkera. The icing on the cake for these winners was that they had secured internships with Myraa technologies and were given the freedom to work on projects related to the domains like Artificial Intelligence and Machine Learning. Furthermore, they were to be honored on February 10 at IIT Bombay in Victor Menezes Convocation Hall, during the main CSI Technext event.

Winners:

First Prize- Yash Putran, Saurav Kanchan, Pratik Salunke, Owais Khan (RAIT), 'Connected the Disconnected with Blockchains'

Second Prize- Vinay Vishwakarma, Prathamesh Patade, Vishwas Singh, Harshit Rai (FCRIT), 'Detect Small Parts and Tag it'

2. CSI Technical Paper Presentation

The competition was conducted on the 3rd of February. Mrs Anuradha Bhatia, a Professor in VES Polytechnic and Dr. Asha Kunte from Tech Mahindra were the judges of this competition. 41 teams had participated in the competition. The theme was 'Nascent Technologies'. It could pertain to the latest advances in the technological fields such as IoT, AI, Machine Learning, Augmented Reality and so on. The participants skillfully and confidently presented the papers on a variety of topics. They were evaluated on the basis of the content of the paper they had chosen, their presentation skills and how well they performed in the Q&A session. The top 5 winners were then announced and felicitated. The top 2 teams were to be honored during the main CSI Technext event on February 10, in Victor Menezes Convocation Hall at IIT Bombay.

Winners:

First Prize- "Human Area and Networking: Red Tacton and its Applications"
Felix Biju, Akhil Maniprasad, Ashley Anthony (Computer Department, FCRIT)

Second Prize- "Self Helping"
Sourav Shaw, Omkar Gaikar, Ashwin Thomas, Vikas Maurya (IT Department, FCRIT)

3. **Department Seminar**

The Seminar was conducted on February 23rd, 2018. It comprised two sessions.

Session 1- Cybersecurity

The esteemed guest, Mr. Suresh Menon has been in the IT industry for more than 30 years. He has earned his merit as a Certified Ethical Hacker from the EC Council and also conducted various seminars on Cybersecurity. A fact he emphasized on was that the hackers fed on the greed and fear of people. And information was the new gold. Steal the ransomware and you have got all the access to any information about a person you need. The addiction to internet was cited as one of the main causes of cybercrime. Various types of cybercrime were explained such as identity theft, invasion of privacy, phishing, cyberbullying, counterfeiting or forgery. It was the need of the hour to preserve the integrity and the confidentiality of data. Mr. Menon described certain ways to stays safe from such cybercrimes such as 2-factor authentication and net safe banking. The session was made interactive by a few videos. 'Muh Pe Tala' by the Mumbai Police, warned the viewers to never important personal information such as the ATM number or CVS. A humorous advertisement regarding password management was also shown. He even talked about a few professions related to the Cybersecurity field- Security Analyst, Cyber psychologist, CISO and CSO. The main message he aimed to drive home was, 'STOP, THINK, CONNECT.'

Session 2- Project Management and Finance Planning

It was yet another informative session by a decorated alumnus, Mr. Linto Kolancherry. Mr. Kolancherry had graduated from our college with a Bachelors` Degree in Computer Science in 1998. He is now an IT architect, with nineteen years of working experience in the IT industry. Capgemini and Tata Communications are some of the top companies he has worked with. At first, he explained the Project Management principles. He emphasized on their importance, by citing the examples of architectural marvels such as the Burj Khalifa and the Bandra Worli Sea Link. Hence, he defined project as an individual or a collaborative enterprise which possibly involved research and design that were carefully planned. The various phases of a project- initiation, planning, execution, monitoring and controlling and closure were described. Mr Linto then talked about

Finance Planning, which is the lifeblood of a business organization and the key to a successful project. Finance comprised two related activities, the actual process of acquiring funds and management of money.

After this session, the winners of the Cryptex competitions- Decrypto and Technical Treasure Hunt were felicitated. These competitions had been conducted for the second year students of the department by the Cryptex Committee.

Decrypto: **First Prize**-Tejesh Jadhav
                Second Prize- Sithin Deshpande
                Third Prize- Ahan Fernandez

Technical Treasure Hunt:
                First Prize- Shruti Kannat, Saumya Kesar, Kesar Mani, Nimmy Augustine

Comp-FCRIT Participation in Organizing Major Events of CSI-Mumbai Chapter

Mrs. Shweta Tripathi, Faculty member of Computer Engineering Department had participated in organizing major events of CSI-Mumbai Chapter. Following are the details:

1. **CFIFC 2018:** Cyber Fraud Investigation and Forensics (CFIFC 2018) was an enlightening and resourceful event with over 40 speakers and 35 sessions. With an audience of over 400 which included IT professionals in the security field, Industry Experts, Police officers and students. It was conducted on 11th and 12 January 2018 in the premises of IIT Mumbai The faculty member Mrs. Shweta Tripathi had actively participated in organizing the same. Following were some of the speakers: Shri. Brijesh Singh, IPS, Spl. IGP, Maharashtra Cyber & Secretary IPR, Government of Maharashtra, Shri. Balsing Rajput, SP, Maharashtra Police Cyber Cell, Mr. Amit Sharma, Additional Director Office of Scientific Advisor to Defence Minister, Ministry of Defence, Adv. Vaishali Bhagwat, Civil & Cyber Lawyer, Mr. Gaurav Batra, APISO, Mondelēz International, Mr. Shivkumar Pandey, CISO, BSE LTD, Mr. Dinesh Bareja, COO, Open Security Alliance, Mr. Venkata Satish Gutulla, Director - Security, Rediff , Mr. Ritesh Bhatia, Director - V4WEB Cyber Security, Mr. Avkash Kathiriya, CHFI, Manager - Information Security Group.

2. TECHNEXT India 2018: Technext India 2018 is an Annual event of CSI- Mumbai Chapter. It was conducted on 10th and 11th of February, 2018 in the premises of IIT Mumbai. Mrs. Shweta Tripathi had actively participated in organizing the same and was also the moderator of one of the panel discussions. Following were some of the speakers: Dr. Devang Khakkar: Director IIT, Bombay, Dr. Kanan Modgalaya IIT, Bombay, Dr. Sridhar Iyer, IIT Bomabay, Mr. K C Santosh, Director-Kanack-IT, Dr. Sasi Kumar Director CDAC Mumbai