

Report on CSI Activities SH2016-FH2017

Computer Society of India is a professional society of Computer Engineering Department. Various activities were conducted under the banner of this society. This report consists of details of all the activities.

CSI – FCRIT Second Half of 2016

The one day Seminar on “ Cloud and Distributed databases” held on 26.8.2015 conducted by the computer Department of Fr. C.R. I. T. On the day of the Seminar nearly 300 participants were present. The day started with the lighting of the lamp by the chief guest Mr. Sankarakrishnan, the Vice President – Channels and Alliances of **Perpetuuti Technosoft Inc.** a leading Business Service Continuity and Availability Management Solutions Provider. Mr. Sankara comes with a combination of skills in Technology, sales and IT distribution. Mr. Kaura, the HOD of the Computer Department delivered the inaugural address followed by the Principal of the college Dr. S. M. Khot. The Principal spoke about the importance of research and how practical knowledge is a must as it is hands on experience that truly enriches us. After that we had prize distribution ceremony for the Summer Project competition where Certificates were given to the winners by the Chief Guest.

Mr. Sankara Krishnan delivered a presentation on the topic “ **Overview on Cloud Computing**”. He spoke about how cloud computing enables companies to consume compute resources as a utility – just like electricity—rather than having to build and maintain computing infrastructures in-house.

Cloud Computing promises several attractive benefits for businesses and end users. Three of the main benefits of cloud computing include:

1. Self-service provisioning: End users can spin up computing resources for almost any type of workload on-demand.
2. Elasticity: Companies can scale up as computing needs increase and then scale down again as demands decrease.
3. Pay per use: Computing resources are measured at a granular level, allowing users to pay only for the resources and workloads they use.

Cloud Computing services can be private, public or hybrid.

Private cloud services are delivered from a business data centre to internal users. This model offers versatility and convenience. While preserving management, control and security. Internal customers may or may not be billed for services through IT chargeback.

In the public cloud model, a third-party provider delivers the cloud service over the internet. Public cloud services are sold on-demand, typically by the minute or the hour. Customers only pay for the CPU cycles, storage or bandwidth they consume. Leading public cloud providers include Amazon Web Services(AWS), Microsoft Azure, IBM/SoftLayer and google Compute Engine.

The second session about **Distributed Database** was conducted by Mr. Awdhesh Singh who is currently working as the consultant at Dell Software.

In his Session. He started by giving introduction on distributed database(DDBMS) via practical and Technical definitions. He talked about parallel, shared databases and applications of DBMS. Promises of Distributed databases its advantages and disadvantages along with the key issues of DDBMS and touched the topic: Distributed query optimization od distributed databases. After the conclusion of his seminar he conducted an interactive question and answer session. The concept of DDBMS was accurately explained by Mr. Awdhesh Singh and his session turned out to be highly informative and enlightening.

The third session was an educative session conducted by Jamboree. It was about the **Future learning opportunities available to the students after Engineering Abroad**. The students were informed about the plethora of options available depending on their diverse interests.

This concluded the educative and informative seminar organized by ACESS



The new semester (second half, 2016) commenced with a number of activities organized by the Department of Computer Engineering. First was a “**Summer Mini-Project**” Evaluation where third year Computer engineering students showcased their problem-solving skills. Next were a number of informative workshops and exciting coding competitions organized by the third year students, as part of the activities of the FCRIIT CSI chapter. All this culminated in a final Seminar conducted on 30th July 2016, titled, “**Impact of IT Solutions in Societal and Environmental Contexts**”.

The Seminar commenced at 10.00 am sharp with a welcoming of all dignitaries present. In attendance were Dr. S. M. Khot (Principal), Mrs. Kiruthika (Co-ordinator – Computer Dept.), Mrs. Vijayalakshmi (Convener – CSI-ACESS 2015), Mrs. Shagufta (Convener – CRYPTEX 2015), Mrs. Geeta (HOD – Humanities Dept.) and the esteemed Chief Guest, Dr. Seema Mishra (Director, SIES - Indian Institute of Environment Management).

The welcome address by Mrs. Kiruthika urged all budding Computer Engineers to work for the progress of the society in general and India in particular. In keeping with the theme of the Seminar, Dr. S. M. Khot, Principal, asserted that engineers should provide solutions for environmental problems.

This was followed by the felicitation of the “Summer Mini-Project” winners and the winners of the CODESWAP coding contest.

The Chief Guest Address followed the Vote of Thanks by Mrs. Shagufta. Dr. Mishra, an academically astute and highly qualified environmental scientist, was a delight to listen to. She stressed that it was time for all technically qualified professionals to work for the good of the society and solve problems faced by the common people. Citing the example of harnessing solar energy, she espoused that the required parts and sensors could be manufactured locally instead of spending a fortune in importing them.

Dr. Mishra pointed out the increasing levels of pollution as a result of development, and stressed the need for a move towards sustainable sources of energy. However, since such sources are costly, their use must be optimized. Various fields which have been revolutionized by information technology solutions were introduced – monitoring of environmental pollutants using RFID and WSN (real-time), health sector, travel and tourism, agriculture and business.

The highly successful ACCESS 2016 was possible due to the combined efforts of the third year Computer students and teachers. The students were actively involved in venue planning, organization, soliciting sponsors, registration, documentation, welcoming the Chief Guests as well as arranging refreshments for all attendees. The teachers played an active role in overseeing the students and ensuring the smooth running of the Seminar.



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- Linux, Arduino and Android workshops. All these workshops had a very positive response from the students who enthusiastically attended the workshops.

The Linux 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 – Code Swap and Coding Competition. 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 2017

The Computer Department student chapter CSI-ACCESS organized a seminar titled “**Business Principles and Professional Ethics in Information Technology**” as a part of the inter college techno cultural fest Etamax 2017 on 23rd February 2017. The students of Computer Engineering participated in this seminar with lot of interest and enthusiasm.

The seminar began at 9 a.m. which was a 2 hour interactive session. The HOD, Dr. Lata Raha, Asst. Professor, Mrs. Shweta Tripathi and CSI president, Sachin George welcomed the Keynote Speaker, Mrs. Ancy Bejoy. The presence of the HOD, Mrs. Lata and Mrs. Ancy Bejoy was appreciated and they were honoured by presenting them a bouquet.

The Keynote speaker, Mrs. Ancy Bejoy, an alumna of Computer Engineering Department, batch of 1998, the first BE - Computer batch, is currently working as Sr. Project Manager with Credit Suisse Risk & Finance IT. With 18 years of experience in the IT industry, her domains include CAD-GIS, Medical Pacemakers, Logistics and Banking. She started her Keynote address by sharing her memories in the college as a student. The main content of her speech was Personal and Professional Ethics in the Corporate World. She focused on the need to maintain professional integrity with the help of ethics and discussed topics like insider trading, bribery, discrimination, social responsibility and confidentiality. The ethics that need to be maintained while dealing with the above mentioned topics were discussed. She also happily answered questions regarding life in the corporate world. Her talk was greatly appreciated.

The session ended with a vote of thanks given by Mrs. Shweta Tripathi. The students thereafter enjoyed the refreshments given to them.

The session left an indelible mark on the students. Her thoughts were of great guidance in knowing how to deal with various kinds of situations in the real business world. The seminar was organized successfully with unstinted support of the CSI committee and the Computer Department.