



SMARTI

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From the HOD'S Desk



Dr. Chitra Babu

I wish all the faculty members and students, a very happy and productive new year. My sincere appreciations to our faculty members Prasad, Suresh, Sarath and Bala for conducting the Anna University sponsored Faculty Development Programme on “Computer Organization and Architecture” in a wonderful manner during the winter vacation. It received a very good feedback from all the participants. I congratulate the student Suresh for getting placed in one of the prestigious companies, Fuji Xerox, Japan. I am glad to see ACM student chapter back in action by organizing the popular code county event. I congratulate the students Pragatheeswaran and Sivaraman for bagging the second prize in that event.

We have been trying to strengthen our industry interactions from different perspectives. Caterpillar has visited our department to see the various research projects that are pursued by our department faculty members and students. Our alumni from Ascendant have been discussing with us regarding conducting a workshop-cum-hackathon in J2EE web application development for the third year students. My fervent hope is to have more such productive engagements with various industries and research labs.

It is very heartwarming to see that our students have also won in various cultural events. My appreciations to all the winners, especially karthik Narayanan who has won first prize in Carnatic music event that was part of Saarang, and the third prize winners of Dance event at SRM University, Kiran, Sharanya, Bharath Raj and Aparna.

Together, let us achieve more significant feat in academic, research and extracurricular activities.

-Dr.Chitra Babu

Faculty Development Training Program on Computer Organization and Architecture

The Faculty Development Training Program on “Computer Organization and Architecture (CS2253)” was organized by Department of Computer Science and Engineering, SSN College of Engineering, Kalavakkam, Chennai during 11th-18th December 2013. Dr. D. Venkata Vara Prasad, Professor, Mr. J. Suresh, Mr.V. Balasubramanian and Mr. K.R. Sarath Chandran, Assistant Professors were coordinators for the program.

Brochures were prepared and sent to different colleges affiliated to Anna University, Chennai for wide publicity. The same brochure was also uploaded in the college website, www.ssn.edu.in. The program was well received among faculty both young as well as experienced. A total of 25 faculties from 16 different engineering colleges attended the training program. The seven days program was divided in to 28 sessions, with two fore-noon and two after-noon sessions which included lecture hours, tutorial sessions. A total of fifteen resource persons were engaged for course delivery out of which six were external.

After formal registration , first day, first two sessions were engaged by Dr. Ranjani Parthasarathi, Professor Anna University, who gave key note address and covered Functional units, Basic concepts, Addressing modes and performance issues. The next two sessions were engaged by Dr. A.P.Shanti, Professor, Anna University, and she covered ALU Design, Fixed point and Floating point arithmetic operations. On day two, the first two sessions were handled by Dr. Shankar Balachandran, Professor, IIT-Madras. He covered Control unit Design: both Hardwired control and Micro programmed control unit designs. Next Dr. John Augustine Professor, IIT-Madras has discussed about Load balancing and Distributed Algorithms. The last session of day two was handled by Dr.R.S.Milton, Professor, SSNCE, covered Accessing IO Devices and Programmed IO and Interrupts. On day three, the first two sessions were handled by Dr. D. Venkatavara Prasad, Professor, SSNCE covered Pipelining basics, Hazards, Exceptions and superscalar operation. The next two sessions were handled by Mr. Subash Babu, Professor and Head, Department of MCA, SSNCE covered Basic concepts, RAMs and ROMs ,speed,size and cost.



Faculty members who participated in the training program along with the organizers



Dr. Subhash Babu delivering a lecture

He also continued the first two sessions on day four, and covered Virtual memory and Memory Management techniques. The next two sessions were handled by Mr. V.Sivamurugan, Associate professor, SSNCE, delivered lecture on Introduction to Embedded board based on ARM processors. On day five, the first two sessions were handled by Dr. Premanand Chandramani, professor, SSNCE covered Reconfigurable Architectures. The next two sessions were handled by Dr. Madhu Mutyam, Professor, IIT-M, covered Exploiting parallelism.

On day six, the first two sessions were handled by Dr. C. Chandrasekhar, Professor, IIT-M has covered Cache memories and Superscalar Processors. The next session was handled by Dr. A.Shahina, Professor, SSNCE covered Influence on Instruction sets , Data path and control considerations and Exceptions. The next session was handled by Ms. Radha Meena, Research Scholar, Anna University covered Direct Memory Access. On day seven ,the first session was handled by Ms. Angel Deborah, Assistant Professor, SSNCE covered IO Interfacing, SCSI,PCI and USB. The next session was handled by Mr K.R. Sarath Chandran, Assistant Professor, SSNCE and covered Secondary storage Devices. The next session was a tutorial session that was handled by Mr K.R. Sarath Chandran. The final session was a tutorial session that was handled by Dr.D.Venkatavara Prasad and the program concluded with feedback from participants.



**Dr. Madhu Mutyam, Professor, IIT-M
handling a session**



**Dr. Shankar Balachandran, Professor, IIT-
Madras in action**

P. Mirunalini attended and published a research paper titled "Automatic Segmentation of Coronary Arteries and Detection of Stenosis" in TENCON 2013 Region 10 conference which was held at Xi'an, Shanxi, China, on October 22-25, 2013.

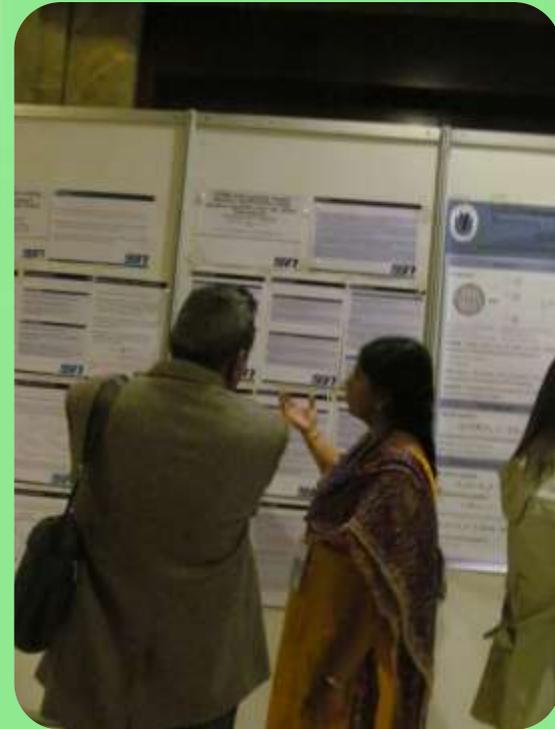
B. Bharathi attended and published a research paper titled "GMM and i-vector based speaker verification using speaker-specific-text for short utterances" in TENCON 2013 Region 10 conference which was held at Xi'an, Shanxi, China, on October 22-25, 2013.

Proceedings of the conference will be published in IEEE xplore. **TENCON** is a premier international technical conference of IEEE. Region 10 also referred as the Asia Pacific Region is one of the largest regional organizations of the IEEE. Held annually since 1980, TENCON provides an important forum for researchers and engineers from the industries, and professors and graduate students from the academia to network and to discuss new ideas and development in emerging areas of electrical and electronic engineering, computers science and related fields.

The conference offered a variety of tracks and workshops that allowed us to learn about Image processing, Pattern Recognition, Speech processing and Machine learning to receive feedback on our own work and to discuss with fellow enthusiasts. It was an unique venue to know the best practices followed in this area of research. It was quite a productive experience for us to obtain knowledge from the keynote speakers and the various brainstorming sessions of upcoming technologies. We also had the chance to discuss with the eminent personalities from different universities and industries across the globe.

We would like to thank our management, principal Dr. Salivahanan and our HOD Dr. Chitra Babu for providing us the opportunity to participate in the great event and to avail the benefits out of it.

P. Mirunalini and B. Bharathi



**B. Bharathi, Asst. Professor, at the
TENCON-2013 conference**



**P. Mirunalini, Asst. Professor, at the
TENCON-2013 conference**

TCS EIS TECHNOVA' 2013



TATA CONSULTANCY SERVICES

Tata Consultancy Services organized a project exhibition “TECHNOVA” on Engineering & Industrial Services (EIS) at SIPCOT, Siruseri on 20-12-2103 (Friday) from 10:00 am to 04:00 pm. This meet was held earlier for students from various institutions but this year the meeting targeted the faculty members from reputed teaching and research institutes. The main objective of this meet was to identify possible opportunities to foster a stronger collaboration between the academia and industry.

The TECHNOVA' 2013 meet comprised of two sessions. The forenoon session started with an introductory talk by Mr.Loganathan Manickam, Head, Domain and Technology group of Industrial Machinery and Transportation vertical under Engineering & Industrial Services unit of TCS. He briefed us on the project exhibits and invited the faculty to explore and give their feedback on the projects developed at TCS. The team from SSNCE comprised of the following faculty members from CSE department: **Mrs.R.Kanchana, Ms.Y.V.Lokeswari and Mrs.Shomona G. Jacob**. There were close to twelve projects on display. The projects mainly focussed on the mechanical and electrical components of engineering services. However most of the projects also incorporated IT services at some phase of development. At the close of the session, the faculty members were invited to provide their ideas on promoting collaboration between their institutes and TCS.

WORKSHOP ON QUALITY IMPROVEMENT CELL

Quality Improvement Cell workshop was organized by Anna University for different colleges affiliated under Anna University. Eminent persons from IIT and Anna University gave ideas to improve the quality of students' performance. Anna University decided to spread this across colleges by organizing workshop at different Nodal centers.

The workshop was about how to improve the performance of students and what is the teacher's role in it. It was conducted on 19-12-2013 (Thursday) from 12.30 to 3.30 pm at St. Joseph's college of Engineering. There were 4 short sessions given by faculties of St. Joseph's college representing the speakers of workshop held at Anna University. There were 5 faculties of various departments from SSN college, attended this workshop. I, Y. V. Lokeswari represented the CSE Department.

1. First session was given by Mr. Kumar Jeyant IAS, Commissioner of Technical Education. It included the following.

- Reasons for poor quality of students
Students after completing their Higher Secondary are used to reproducing facts as answers.
Many students lag in their communication skills which make them not to be interactive in classes.
- Solutions suggested in overcoming above said reasons.
 1. Question Bank pattern of studying should be changed.
 2. Teachers should encourage students to read magazines, newspapers.
 3. During class, staff should interact and make students to ask questions.
 4. While taking class, teacher should link every concept with real life so that students remember them always.
 5. Teaching every basic and advanced topic in class.
 6. Making students to read books without instructing them with all 2 marks and 16 marks questions with answers.
 7. Encouraging students to view some videos of British council for improving communication skills.
- Below is the list of resources available to improve student's performance.

1. **NPTEL** (National Programme on Technology Enhanced Learning)- An E – Learning initiative with video based lectures given by well experienced IIT Professors in every stream of Engineering. It's additional features include Speech to text transcription of NPTEL Video lecture and Gate Preparation.



**Y.V.Lokeswari, Assistant
Professor represented from CSE
department in the Workshop**

Workshop on Engineering Optimization Theory and Practice

Madheswari.K , Assistant Professor attended on Workshop on Engineering Optimization Theory and Practice at Indian Institute of Technology Madras between 22-24, December, 2013. The resource person was Prof. S. S. Rao, University of Miami, USA. The benefits of the session were

Exposure to the most practical and up-to-date optimization techniques in use throughout a wide range of industries

Hands on experience on the state-of-art optimization software tools

Solving practical design problems and exposure to different case studies

Useful in formulating and solving optimization problems for practicing engineers as well as researchers



Madheswari K, Assistant Professor

2. MOODLE (Modular Object- Oriented Dynamic Learning Environment)
3. EDUSAT
4. MOOC (Massive Open Online Course)

2. Second session was a detailed talk about how to use NPTEL videos prepared by IIT and IISc.

An interesting point was about **LocalGuru**, a software that can be installed in LAN of a college, from where students can access NPTEL videos by providing their Skype ID. This does not require any bandwidth. They insisted all the staff to encourage students in using NPTEL videos as many students are not aware of it.

3. Third session is about Spoken Tutorial given by Shyama Iyer (IIT Bombay)

This is about online spoken tutorial, from where students can learn about Linux, LaTeX, GIMP, C++, Java, Self Workshop and many more. Students can register in www.spoken-tutorial.org with the help of their Skype ID and can take assessment test on the tutorials that they learn.

4. Last session is about “How to Make Effective Class Room Teaching” by Dr. T.Thayagarajan Professor of EEE Dept, Anna University.

This talk was the interesting one. It included the following.

1. There should be an orientation for young faculty or faculty members handling the subject for first time.
2. He brought in a idea that Faculty Development Programme is not only for young faculty, but also for others which will help them to know about advanced topics and improve their knowledge in the subject.
3. What a teacher should do for making effective teaching. Every teacher should remember all the below mentioned key points during his / her course of teaching.
 - ✓ **Motivating students**
 - ✓ **Review (Recap)** for 5 minutes of the previous class
 - ✓ **Feedback** from the students
 - ✓ **Mnemonics** (Tactics to remember things easily)
 - ✓ **Blackboard** should be wiped out clearly at the beginning of class
 - ✓ **References** to explore more on the topics
 - ✓ **Interaction** in class to make the lecture more lively
 - ✓ **Teaching** students according to their capability levels
 - ✓ **Tutorials** to enhance students understanding
 - ✓ **Objective** of learning a particular topic
 - ✓ **Summary** at the end of every class.

This is acronym as Mr. F. M. BRITTOS.

The program concluded with a session on different teacher roles apart from Teaching like Project Guidance and Evaluation, Conducting Workshops, FDPs, and Conferences etc.

Y.V.Lokeswari, Asst. Professor

International Workshop on Machine Learning & Text Analytics

Dr. R.S.Milton and **B.Senthil Kumar** participated in the International Workshop on Machine Learning and Text Analytics held at South Asian University, New Delhi during 15-23, December, 2013.

A one day pre-workshop tutorial was organized to introduce the basics in Linear algebra, Probability and Statistics and Information Theory for Machine Learning. The workshop started with Keynote address by David Barber, UCL, UK, followed by the lectures and tutorials by various eminent academicians from both abroad and India. The topics covered are Statistical and Logical Learning, Bayesian Inference, Support Vector Machines, Machine Translation, Computational Morphology, Text Classification and Clustering, Topic modeling, NER, Document Summarization, Sentiment Analysis, and Statistical Relational Learning. The workshop also featured paper presentation by participants. The eminent persons who delivered keynotes include Alexander Gelbukh from IPN Mexico, Bing Liu from UIC, USA, Rakesh Agrawal from Microsoft research, USA and Pushpak Bhattacharya from IIT Bombay.

The academicians / researchers from IBM Research lab, IIT Delhi, IIT Bombay, IIT Patna, NIT Goa, NIT Hamirpur, IIIT Hyderabad, University of Allahabad, ISI Delhi, BHU Varanasi, IIITM Gwalior, SAU New Delhi had delivered talks and tutorials. There were 110 participants (students, faculty, research scholars) who attended and benefitted from the workshop from different parts of India and also from Nepal, Bangladesh and Yemen.



Workshop on “Descriptive Analytics Tool - IBM COGNOS”

A four day workshop on “Descriptive Analytics Tool – IBM COGNOS” was attended by **Dr. T.T. Mirnalinee, Ms. J. Bhuvana, Ms.D. Thenmozhi, Ms.B. Bharathi and Ms. S. Manisha** from 17-12-2013 to 20-12-2013 in SSNSASE. The workshop was conducted by Mr. Manish Kotak of IBM. Introduction to data warehousing and data mining was given during the first two days of the programme.

Tutorial on COGNOS: a descriptive analytic tool was given during the other two days of the programme. Report generation and chart preparation was elaborated in the workshop for sales application to incorporate Business Intelligence. Framework manager was demonstrated in the last session which helps in developing data warehouse.

Witnessing Innovation at TCS Innovation Lab

Fifteen faculty members from the department of computer science and engineering visited the TCS innovation lab at Siruseri on 22nd Nov 2013.

A presentation on the research focus of TCS and few of the research problems focused in TCS R&D labs was made. It was understood that TCS Research is more focused on idea generation for solving customer problems. In other words, TCS Research and innovation labs provides solutions to their own internal groups or their sister organizations to improve the overall productivity and operational efficiency. The research problems of TCS include Optimization, scheduling, Stochastic analysis, BPO analytics, etc. During the session various academic collaborations with TCS including internships to students, PhD fellowships and consultancy were informed. Among more than 500 proposals submitted for student internships, 20 or 30 get selected. In this, the problems and the solutions are proposed by the students. Student interns may not work on the customer problems. Various research projects that have social relevance such as IT solutions to Agriculture, cancer detection and smart city were introduced. Data Fusion is one of the research projects where data from social network is fused with the ERP of the industry.

Later, there were visits to the retail/transport lab and found some IT solutions for retail and transport industry. It was found that there are commonalities between the department research focus and that of TCS, especially in the areas of data mining, sensor networks and software engineering. The visit was informative and should be useful in pursuing potential avenues for research collaboration with TCS.

-T.T.Mirnalinee, Professor

WELCOME ABOARD!

Mrs.Shomona Gracia Jacob joined the CSE dept recently. She has 4 years of teaching and 2 years of research experience. She registered for PhD in the broad area of Clinical and Biological Data Mining as a full-time research scholar in 2011 and submitted her thesis in 2013 at Anna University. During her PhD research she worked on an AICTE funded RPS project "Feature Relevance Analysis and Classification of clinical life data" for 2 years She has more than 20 publications in International journals and Conferences of which five are Refereed SCI Indexed journals. Her research interests cover Data Mining, Bioinformatics, Machine Learning and Pattern Discovery.



Miss One of Us...

Ms.Radha Meena was introduced to us, as a participant of FDP in architecture and joined our family in 2005. Working every day to flawless perfection with her pleasant smile she captured our attention. She was catalytic in streamlining the Mentoring System and worked with deep commitment day and night. She tickled our taste buds with "paneer butter masala" and more. She was a thoughtful colleague who never missed a birthday. She became an able organizer of the very same FDP through which she was introduced. "She left us as an excellent resource person" recalls V. Balasubramanian fondly. We are thankful for all that she has done.

Radha Meena, we miss you



Faculty Focus

1) A guest Lecture on "Concurrent Data Structures" was organized by Ms. R. Kanchana for I year ME CSE, ME SE, ME CC (IT Dept) students and faculty from MCA, IT, CSE, and MSIT. The speaker was Prof. S.P. Suresh, Associate Prof, CMI, SIPCOT, Chennai.

2) Dr. Chitra Babu delivered lectures on "RESTful Web Services" and "Research Directions in SOA" on 12th November during the TEQIP II Sponsored One Week Faculty Development Programme on "SERVICE ORIENTED ARCHITECTURE and WEB SERVICES – ISSUES and CHALLENGES". This was scheduled from 06.11.2013 – 12.11.2013 in PSG College of Technology, Coimbatore.

3) Ms. R. Kanchana delivered Guest lectures on 12th November, 2013 during the TEQIP II Sponsored One Week Faculty Development Programme on "SERVICE ORIENTED ARCHITECTURE and WEB SERVICES – ISSUES and CHALLENGES" scheduled from 06.11.2013 – 12.11.2013 in PSG College of Technology, Coimbatore. The lecture topics were "Service Orchestration" and "Web Services Testing - Research Issues"

4) Aishwarya K, Arvind Ram A, Sreevatson M C, Chitra Babu, Prabavathy B published a research paper titled "Efficient Prefetching Technique for Storage of Heterogeneous small files in Hadoop Distributed File System Federation" in the Fifth International Conference on Advanced Computing (ICoAC 2013).

5) Nishanth S, Radhikaa B, Ragavendar T J, Chitra Babu, and Prabavathy B published a research paper titled "CoHadoop++: A Load Balanced Data Colocation in Hadoop Distributed File System" in the Fifth International Conference on Advanced Computing (ICoAC 2013).



Dr. Chitra Babu delivering a lecture at PSG College of Technology, Coimbatore



Ms. R. Kanchana delivering a lecture at PSG College of Technology, Coimbatore

CODE COUNTY V2.0, a hit anyway!

The SSN ACM Student Chapter has always had a strong tradition of conducting competitive programming contests, a prime example of it being the "ICPC" that is conducted at the national and international level. To instill the idea of competitive programming and give exposure to SSNites, the 2nd edition of Code County was conducted at the intra college level on 27th January 2014.

Teams of at most two students were allowed to participate in the competition. With a plan of conducting multiple rounds, the event kicked off at 10AM with the prelims. The prelims were a rapid fire multiple choice question round where a total of 20 questions were to be answered within 15 minutes.

The competition saw an active participation of around 250 students, with an extension being provided for the prelims round on request of the students. Based on the scores of various teams, the top ten teams were called forward to attend the final round at 1:15PM. The teams ranged from enthusiastic 2nd year students to seasoned programming veterans from the Post-Graduate courses of our college. The final round was an onsite coding round comprising of 4 questions covering different aspects of Data Structures, Dynamic Programming and so on.

With the participants actively coding and solving the given questions, the clock was stopped at 3:15PM and the results were announced. The winners were the team from 3rd year, IT department while the runners-up were the team from 3rd year, CSE department. Dr Chitra Babu, HOD-CSE gave away the cash prizes to the winners and runners-up and congratulated them on their success. The winners were awarded Rs 1000 while Rs 500 was given to the runners up. The SSN ACM Student Chapter wishes to thank Mr. Balasubramaniam, the faculty advisor of SSN ACM for all his support, the HOD-CSE Dr Chitra Babu for her guidance and the staff from all departments for having allowed the students to participate in this competition and to have made the event a grand success.

VIGNESH DV

SSN ACM STUDENT CHAPTER

COMPUTER GETS SMALLER THAN AN SD CARD WITH EDISON

Have you ever imagined your computer smaller than your memory card?

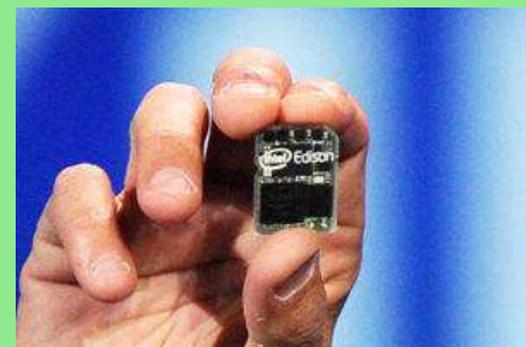
Intel introduced Edison - a computer fixed in an SD card form factor. The device functions with Intel's recent Quark microprocessor technology.

The computer is meant to be used in wearable smart devices like a health tracker or in everyday products like coffee mugs that has to be connected to the internet. In this way, it paves way for technology to cater to the needs of everyday life.

Edison has been designed with built-in wireless capabilities to make internet accessible. It supports multiple operating systems. Don't underestimate the power of Edison ! Though Edison in the form factor of an SD card, it is a full Pentium-class PC.

Edison can be attached to the clothes of a baby. This will allow parents to monitor the baby even if they are not in the same room.

Smart earbuds (called Jarvis) with biometric and fitness capabilities are also in the pipeline.



Dancing feet!

The dance team, N2K, from our college won the SRM MILAN professional dance competition on 25/1/14 at SRM University, Kaatankalathur. S Kiran, S Sharanya, T Bharath Raj and A Aparna, from the CSE department were part of the winning team. They were placed third in the competition.



The team in the midst of the performance

MILLION DOLLAR BUG

Always been a perfectionist? Always had it in your blood to find fault with others? Guess what...you can get rewarded big time if you could extend that tendency of yours to computer systems and software.

Companies such as Google, Facebook, Microsoft, PayPal etc. have excellent software developers working on the source codes for their various products. But any software is bound to be flawed in some way that is not apparent to the developers initially. Given the fact that such huge companies hold the security and privacy of their users above all, they offer bounties to individuals who find loopholes in their systems that could potentially compromise the safety of their users' data. By way of delegating this task of finding 'bugs' to the entire online users community the amount of loopholes that can be discovered increases manifolds which is an advantage for these companies. So it is no surprise that they are willing to provide monetary rewards as an extrinsic motivation for people to find bugs in their software. In recent times especially the rewards have been boosted in order to outdo the amount that the bug-reporter could get by exposing the software defect in the black market. So this venue sure has become a huge gold mine!

So how exactly does this reward system work? The validity of the glitch is first decided upon by a panel and the incentive provided depends upon the magnitude of damage that could be caused if the loophole were to be exploited when in wrong hands. To give you an idea of how big a jackpot you can hit, consider the case of a youngster from Salem, Arul Kumar who was rewarded with a sum of 8 lakhs just about a month back for having found a critical vulnerability that would allow anyone to remove photos from another user's account without his/her consent, in Facebook's mobile application. Apart from materialistic rewards, bug reporters will also be credited at the 'Hall of Fame' in the company's official website. Now that's intrinsic motivation for you!

So go ahead.. go on a fault-finding spree because the odds that you will be rewarded are far greater than the odds that you will be frowned upon!

Happy debugging!

Peace out,
Nivetha Thiru

At the heart of the industry-IV to POLARIS

On January 18th, the students of III year CSE accompanied by **Ms.Felix Inigo** were taken on an industrial visit to Polaris Financial Technologies, Navalur. The 4 hour visit was mainly aimed to explore the company's design center - FT 8012 which is the world's first design center for Financial Technology.

The FT 8012, where 80 and 12 stands for the longitude and latitude of the building and spread over 30,000 sq.ft costed 10 million dollars for its development. The students were split into two batches, where one batch were taken on a tour to see the Design Center guided by Mr.Shankar, member of the Nalandha Corporate University and Mr.Ramesh and the other batch was addressed by Mr.Rajagopal, VP of Intellectual Property.

The sole purpose of this Design Center is to develop Financial Technology and reduce complexity.Polaris believes to foster interest in design thinking which was evident from the studio type design of FT 8012 center.

Polaris offers Consulting Services for determination of application efficiency of one or more applications relating to the Banking Industry, using the Polaris' proprietary COPARIS framework. Mr.Shankar and Mr.Ramesh explained to the students about the key tenets of the framework which ensures there is no compromise in customer experience. On the whole it was an esteemed opportunity for the students to see the company's design center.

R. KALAIMATHI

IIIrd YEAR CSE 'A'



A Research Personnel at Polaris addressing the audience

EXTRA-CURRICULAR ACHIEVEMENTS

BRUSH YOUR TEETH THE

'SMARTER' WAY

Ever imagined technology entering something you do routinely, something as simple as brushing ?

A French-based startup Kolibree has made the world's first internet-connected toothbrush. It has been built with the aim to reinvent oral care.

The toothbrush works by detecting the amount of tartar that is being removed by brushing using its sensor. This information is conveyed to a smartphone app over wireless network.

This is very useful for parents who wish to monitor their children's teeth and help them improve their brushing habit. Even for grown-up individuals, it might be helpful in evaluating how well the teeth have been cleaned and do a 100 % brushing daily. Thus, the device can serve to be a pocket dentist monitoring you on a daily basis, and thereby reducing your visits to the dentist.

The device also keeps track of the brushing time and helps you maintain a consistent cleaning.



• 2nd year

- ✓ S Sanjana attended a training programme by MSME on Cloud Computing
- ✓ P Satish,R Srinivas Bharathwaj and C V Vishal Ramasamy attended an IPT at Ramco Systems
- ✓ S Sanjana and R Sukanya attended an IPT at BSNL RTTC
- ✓ V Nandini,Sriranjith R, Srividhya Chandrasekharan,Vedavi Balaji attended an IPT at 3edge solutions
- ✓ R Nirmala attended an IPT at PMS information systems,IBM
- ✓ Malini Christina Raj,Keerthana,DineshRaj G attended an IPT on OS,Networking and Software at HCL

• 3rd year

- ✓ Anand Shankar B,Backiyanihan, Natha Manoj Kumar,Tejeshwar and Thamarai Selvan interned on Android App Development at UNIQ technologies
- ✓ Anandh Varadarajan interned at Kothari Sugar and Chemical Ltd on Live Data Processing.

• 4th year

- ✓ Pradeep Janarthanan won the first prize in Technical Quiz and Debugging conducted at the symposium held at R.M.K institute of Technology, Chennai.
- ✓ Praveen Janakarajan was a Finalist in Google's Cloud Developer Challenge 2013 - An international competition conducted by Google with the entrants having to develop a website / web-app, which is judged by a professional team of judges.
- ✓ Karthik Narayan:
 1. Bagged first place in classical music event of Saarang 2014
 2. Finalist of Nadh Bedh (national level competition for classical musicians)
 3. Top 5 nominees for MS Subbu Lakshmi award by Hindu Sa Re Ga Ma
 4. Performed in music academy main hall during December Music Season.

TRYST WITH ACM-ICPC!

The ACM International Collegiate Programming Contest (ICPC) provides college students with opportunities to interact with students from other universities and to sharpen and demonstrate their problem-solving, programming, and teamwork skills. The contest provides a platform for ACM, industry, and academia to encourage and focus public attention on the next generation of computing professionals as they pursue excellence. The ICPC is a two-tiered competition among teams of students representing institutions of higher education. Teams compete in Regional Contests, from which top scoring teams advance to the ACM-ICPC World Finals.

Regional contests are conducted at three sites in India IIT-Kanpur, IIT-Kharagpur, Amrita University. We participated in the regional event conducted at Amrita University.

The regionals are conducted in 2 stages - An online Qualification round in which around 1834 teams from various colleges participated, from which 400 teams were selected to participate in the onsite contest. We were selected for the onsite contest.

The onsite contest was conducted over 2 days. The first day was a 2 hour practice contest and the second day a 5 hour contest that consisted of 10 questions. We were placed 220th among the teams that participated in the onsite contest.

Team name: Candid Coderz

Thiageshwaran D

Vignesh S

Vignesh P



The students at the onsite contest

LENOVO LAUNCHES NEW THINKPAD X1

Lenovo has launched its ThinkPad X1 Carbon, the latest of its ThinkPad X1 ultrabook claiming that it is the world's lightest 14-inch ultrabook, weighing just 1.27kg. The X1 Carbon is made from Carbon Fiber, which weighs less than magnesium and aluminum but is stronger than both.

The Ultrabook is powered by up to fourth-generation Intel Core i7 processor with up to 8GB of on-board RAM, choice of Intel HD Graphics 4400 and 5000 GPUs and up to 512GB SSD.

The new features include the ColorBurst Display, which claims to provide sharper, brighter images at higher resolutions with better viewing angles.

The 'Adaptive Keyboard' is yet another attraction, that dynamically adjusts based on the software or application being used to highlight the most relevant keys. It also features voice and gesture control.

The new ThinkPad X1 Carbon comes with a Rapid Charge technology, promising to provide an 80% charge in under an hour.



WELL PLAYED!

- ✓ Nitin.S, 4th year:
 - Finished 5th in the Gurgaon Grandmasters International Open Chess tournament.

- ✓ Varadharajan, 4th year:
 - Part of the SSN Cricket team which won the Anna University Inter Zonals Cricket tournament.

- ✓ Karthik.E, 3rd year:
 - Winners - Anna University Inter Zonals Men Squash
 - Represented Anna University for Men Squash at the All India Inter University Meet hosted by the University of Mumbai, Mumbai.

- ✓ Aishwarya.S, 3rd year:
 - Runners - Anna University Inter Zonals Women Tennis
 - Selected to represent Anna University at the All India Inter University Tournament.

- ✓ Abishek, 2nd year:
 - Participated in a 10-day training camp conducted by Bolton Wanderers Football club in Bolton, Manchester.

WELL PLACED!

<u>Name of Company</u>	<u>Salary per annum (in lakhs)</u>	<u>B.E</u>
Fuji Xerox, Japan	15.00	1
Datacert	3.60	2
India Property Online Pvt. Ltd.	3.50	1
Zoho Corporation - Developing & Content Writer Division	4.6 / 6.58	1
Flextronics India Ltd	3.25	1

MICROMAX UNITES ANDROID AND WINDOWS ON ITS LAPTAB

Micromax has unveiled its LapTab tablet, a first-of-its-kind dual-boot tablet, which will run on both Windows 8 and Android Jelly Bean operating systems. Multitasking across operating platforms is supported by this device. Users have the option to switch from Windows to Android and vice versa.

The device is a perfect blend of innovation in its design and its technology.

A transleeve comes with the LapTab which serves as a cover and stand for the wireless keyboard to extend the tablet to a Laptop PC. The wireless keyboard packed with a 230 mAh battery for 20+ hours combined usage.



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