2015-'16

INTERNATIONAL CONFERENCE - IBICA 2015:

The Departments of CSE and IT conducted the **6th International Conference on Innovations in Bio-Inspired Computing and Applications** (IBICA) from 16th -18th December 2015. IBICA 2015 aimed at providing a platform for world research leaders and practitioners, to discuss the full spectrum of current theoretical developments, emerging technologies, and innovative applications of Bio-inspired Computing. **Mr. P R Ravikumar IRS, Director General of Income Tax (Investigation)**, inaugurated the conference. The conference was organised in association with **Machine Intelligence Research Labs (MIR Labs)**, **USA** and **VSB-Technical University of Ostrava, Czech Republic**. IBICA '15 witnessed the presentation of 40 papers, in different topics like Ant Colony System, Artificial Immune Systems, Artificial Intelligence, DNA Computing, Biomedicine, Bioinformatics, Business Intelligence, Cloud Computing and Robotics, by researchers from India, the US, the UK, Malaysia and the Czech Republic. Dr. Ajith Abraham, Director, MIR Labs, Dr. Philip Samuel, Professor, CUSAT and Mr. Vojtech Uher, Department of CS, VSB-TU of Ostrava, chaired the conference sessions. The proceedings got published in the online journal **Springer**: **Advances in Intelligent Systems and Computing**.

The three day conference witnessed expert sessions on:

- **"Digital Eco Systems: Role of Bio-Inspired Computing"** by Dr. Ajith Abraham, Director, MIR Labs, USA.
- **"Cohort Intelligence Algorithm"** by Dr. Anand J Kulkarni, Symbiosis International University, Pune.
- **"Partitional Hard Clustering Using Evolutionary Computation"** by Dr. Pramod Kumar Singh, ABV-Indian Institute of Information Technology and Management, Gwalior.
- **"Feature Extraction and Selection Techniques for Pattern Recognition"** by Dr. S. Ramakrishnan, Dr. Mahalingam College of Engineering and Technology.

INDIA'S FIRST CLOUD COMPUTING CHAMPIONSHIP:

The Department of CSE organised a 2 day workshop on Cloud Computing, which was conducted by **IFC3 India** and **Neuromancers, IIT Bhubaneswar**, for B.Tech and M.Tech students, on 21st & 22nd January 2016. Mr. Abhishek Soni from Bangalore was the resource person. The topics covered in the event were cloud computing, cloud computing technologies, cloud computing services, planning and designing IaaS, PaaS and SaaS, implementing and deploying public cloud, community cloud and hybrid cloud, cloud security essentials, amazon web services, google cloud services, microsoft cloud services etc.

NATIONAL OPEN-SOURCE PROMOTION INITIATIVE - TECH FOSS 2K16:

The Department of CSE, jointly with **IEDC** (Innovation and Entrepreneurship Development Cell) of TIST, in association with **CSI**, organized a two day National level intercollegiate technical event **'TECH FOSS 2K16'** on 11th & 12th February 2016. This is the fourth time that TIST is organizing an open source promotion initiative. The chief guest, **Mr. Andrine Mendez, Founder & Lead Speaker, Frying Pan Academy** (A platform for teaching and sharing ideas), delivered the keynote address on *'Entrepreneurship and Innovation'*. **Mr. Kumaresan, Mozilla India Regional Ambassador**, was a special attendee. Er. C S Varghese, President, Dr. K Varghese, Manager, Mr. Prakash George Mathen, Secretary (Toc H Public School Society) and Dr. D Vincent H Wilson, Principal, felicitated the gathering. The launch session was followed by the **FOSS Message - "How to contribute to Open Source?"** by **Mr. Praveen Sridhar**, Open Source Evangelist & Mentor at TinkerHub, CUSAT.

MOZILLA MAKER PARTY: The major highlight of Tech FOSS 2k16 was the maker party, where knowledge sharing groups interacted and demonstrated various free and open source tools and software to the interested participants. A special attraction of the event was Master Saarang Sumesh, a 2nd standard boy from Choice School, Tripunithura, who made robotic applications at this young age. The exhibits included projects like Opensource android Custom ROM & Kernal, Obstacle Avoider Rover, Holographic Projector, TAH, Robotic Arm, Google Cardboard, VR Headset, Teleoperated Robotic Arm with Force Feedback (TRAFF) and sessions on topics like Artificial Intelligence – Making a Chatbot, Google Summer of Code and Opportunities in the world of programming, Android Rooting, Netbeans IDE, Wordpress, Quantom Dot, Python, 3D Printing Technology etc. There were more than **500 participants**, including **200+** from external colleges and rest from TIST (CSE, IT, EEE, ME, FS and ECE depts.).

ANDROID WORKSHOP: Two day hands on workshop on Android was conducted by **Jerin A Mathews** and **Jishnu Vijayan** (2012-'16 batch, IEEE Student Ambassadors). There were 40 external participants from different engineering, polytechnic and arts and science colleges across Kerala. The workshop started with the basics of Android, and proceeded with hands on training on app making. It ended up with a surprise contest 'My First App Challenge'.

ARDUINO WORKSHOP: Two day hands on workshop providing information on 'How to create new useful gadgets and connected devices using Arduino?' was conducted by **V**

Mohammed Ibrahim (2013-'17 batch), Emil M George and Mr. Akshay James (ECE, TIST). It was a live learning experience using robotic kits from DIY Hacking team. There were 50 participants from ECE as well as CSE/IT branches including 23 external participants from other colleges and schools across Kerala, and they found the session immensely useful.

CONTESTS:

Two contests and a game zone were also organized. Winners were awarded with certificates and cash prizes.

- **Open Source Olympiad** (Code Debugging and Open Source Quiz) – A two level contest where an initial online round tested the participants' code debugging skills. The second round was an open source based quiz.
- **Mobile App Idea contest** – This contest showcased the implemented mobile/system applications as well as implementable ideas that can be built on open source platforms.

Tech FOSS 2k16 witnessed enthusiastic participation from different colleges across Kerala.

Latex Workshop

One day workshop on Latex typesetting tool was conducted for S7 students on 10th July 2015 by Asst. Prof. Gokul Kishan of CSE, TIST.

Aptitude Training by ICTAK

In collaboration with ICTAK, CSE department organized a 3 day aptitude training sessions for S7 students on 22nd, 23rd and 28th September 2015. The sessions were handled by Mr. R Dilip, Mr Gireesh and Mr Prince from ICTAK and it focussed on quantitative ability, English vocabulary and grammar etc. Mock tests were also conducted.

HTML and CSS Workshop

One day workshop on HTML and CSS for the S1 students was conducted on 9th October 2015. The sessions were handled by Jerin A Mathews, Jishnu Vijayan, R Adithya Naik and Vishnu Shenoy of S7 CSE. Sessions included the basics of CSS and HTML along with hands-on training.

Workshop on Java

One day workshop on Java was conducted for S4 CSE Students on 16th December 2016. Mr. Anilkumar of Think Force handled the session, which included core java concepts and hands on training.

Workshop on Database based Projects

One day hands-on workshop on Database based Projects was organised for S6 CS Students on 17th December 2016. Mr. Anilkumar of Think Force handled the session.

Technical Session on 'The Computing Discipline'

Dr. Vineeth Paleri, Professor, NIT Calicut delivered a session on different Computing Disciplines on 16th January 2016 for S4 & S6 students.

Cyber Threat Awareness Session

An awareness session regarding Information Security and Cyber Crimes was organised for S2 students on 1st February 2016. Mahima Mary Mathews, Ranjith R Bhat and Hridya Venugopal of M.Tech Data Security handled the sessions.

Motivational Talk on 'Engineering days and Career'

A motivational talk on 'Engineering days and Career' by Mr. Arjun Pillai, CEO, Profoundis, was conducted on 22nd April 2016 for the S2 students. He shared his experiences as an entrepreneur. Mr. Jofin Joseph from Profoundis also interacted and motivated the students regarding the responsibilities of an engineering graduate and the challenges they have to face.