

Association & Activities 2018-19

Two weeks Training Program (Industry Internship) On “Foss & Enterprise Solutions”

Industry Internship training on ‘**Foss & Enterprise Solutions**’ was conducted by **Mr. Raphy P Varghese, CEO, gooseBerry.media, Technolodge**, Piravom from 8th to 18th July 2019 for S2 (2018 Admission) students. This was a unique internship program to build Leaders for the Industry. The program included aptitude test, resume preparation, group discussions, mock interview, team formation, developing product idea, project management training in – UNIX and GIT commands, GIT – version control and project management, HTML5, CSS3, UI/UX, SEO/SMO basics, web hosting, idea pitching and product presentation. The students were divided into teams and the best performing teams were awarded.

FDP on “BLOCKCHAIN TECHNOLOGY”

Department of CSE organised a two day FDP on Block-chain Technology on 20th and 21st June 2019. **Mr. Franklin John, Research Engineer, Kerala Blockchain Academy, IIITM-K, Mr. Nikhil V Chandran, Research Fellow, Kerala Blockchain Academy, IIITM-K, Mr. Sabir Aboobaker, Research Fellow, Kerala Block Chain Academy, IIITM-K** delivered technical sessions on Blockchain during FDP. The sessions included introduction to blockchain, features of blockchain, life cycle of transaction, consensus protocol, Ethereum world computer and various hands on sessions. Faculty members of various colleges and all staff of CSE & IT of TIST attended the same.

Technical Fest – TECH FOSS 2019

The **Department of Computer Science and Engineering of Toc H Institute of Science and Technology**, Arakkunnam, in association with the **Computer Society of India**, organized a two day National Level Intercollegiate Technical Fest ‘**TECH FOSS 2019**’ on **22nd & 23rd February 2019**. This is the sixth event in the TechFOSS series. The mission is to promote the virtues of free software and to increase the awareness among the young generation regarding how each one can contribute to the open source arena.

Tech FOSS 2019 started with the launch session on 22nd February 2019. **Prof.Dr.PreethiThekketh**, Principal, TIST, inaugurated the technical fest. Dr.Babu John (Vice Principal), Dr.SreelaSreedhar (HOD-CSE), Dr.Deepa Elizabeth George (HOD-ECE), Prof.LathiKarthi (HOD-CE), Professors, faculty members and students from various departments were present during the inaugural session.

TECH FOSS EVENTS:

TECHFOSS 2019 aimed to promote open source usage among students. Two days hands-on workshops were conducted on three topics – **PythonDjango, BlockChain**(in association with

ICFOSS– International Centre for Free and Open Source Software)and **Designing**. Two technical contests were organised – **TechnicalQuiz** and **Debugging**.



2. BLOCKCHAIN WORKSHOP

Two days workshop on BlockChain, in association with ICFOSS, was conducted by **Mr.Jerin A Mathews, Data Platform Engineer at Data Chain Inc., Chennai**. The blockchain is unquestionably an ingenious invention which has created the backbone of a new type of internet. The workshop included everything for a beginner to understand the blockchain concept. The topics covered were – Blockchain basics & introduction to ethereum, what are smart contracts?, programming environment, Remix IDE, Metamask, MyEtherWallet, Solidity programming language, syntax, variable basics, functions setters & getters, fixed size and variable size arrays, mapping, constructors, Sample smart contract app (lottery smart contract), and Implementing an ERC20 token.



3. DESIGNING WORKSHOP



Two-days hands-on workshop on designing was conducted by **Mr.YadevJayachandran (Google DSC Lead @ TIST)**, a design enthusiast. The workshop aimed to impart the basic principles of designing and to introduce some of the amazing tools used to create the wonders in designing. The workshop started with the principles of designing (alignment, sizing and ratios), proceeded with an overview on colors and color combinations, typography and fonts, then discussed about UI and UX and how to handle both. Finally, the session introduced the types of tools (vector based, raster based and UI) and had hands-on session on various examples.

CONTESTS:

T-QUIZ

National Level Technical Quiz competition was conducted on 22nd March 2019, along with TECH FOSS event. 35 teams participated in the event. Prelims was conducted and shortlisted teams participated in the final round. Asst. Prof. Ceira Sara Cherian was the quiz master. Albin Xavier and Alvin Mohan of S6 CSE secured the first prize. Athul N Ullas and

MuhammedRameez of S2, CSE secured the second prize. The winners were awarded with cash prizes and certificates by Dr. SreelaSreedhar, HOD-CSE.



DEBUGGING

National Level Technical Code Debugging competition was conducted on 23rd March 2019, along with TECH FOSS event. 10 teams participated in the event. Prelims was conducted and shortlisted teams participated in the final round. Asst. Prof. Anuraj C K coordinated the event. Merin Anna Jose and Taniya Joseph of S6 CSE secured the first prize. Albin Xavier and Alvin Mohan of S6 CSE secured the second prize. The winners were awarded with cash prizes and certificates by Mr. JishnuVijayan, CSE Alumni (2012-16 batch).



Student Learning Group



The students of CSE department came together to form a learning-group to interact with each other and share experiences. Building such a community of communities/learning-groups linking each potential student from each classroom to the other in the same institution, linking that group with other groups, together learning new technologies, sharing ideas and implementing it, availing proper mentorship could give rise to more projects becoming game-changing products of the future, changing the face of our economy. The following events were conducted under this learning groups:

Event – 1: Machine Learning Crash Course (MLCC), on 30th September 2018, Sunday. 20 participants

Event – 2: Learning group activities, (Throughout October)

Event – 3: Learning group activities, at Rajagiri School of Engineering, 23rd October 2018

Event – 4: Machine Learning Crash Course (MLCC), on 07th October 2018, Sunday.

Event – 5: Women in entrepreneurship, talk during Prayaana event, on, 22nd September 2018, Saturday.

Inauguration of ASAP ASDC and Launch of CSI student branch & CSAT association activities 2018-19

ASAP ASDC student branch at TIST was inaugurated on 5th February 2019 by **Dr. Saji Gopinath**, CEO, Kerala Start-Up Mission (KSUM) & Director, IIITM-K, Technopark. The launch of activities of CSI Student Branch and CSAT – Computer Science and Engineering Student's Association of Toc H Institute of Science & Technology for the academic year 2018-19 was inaugurated on the same day, by Er. C S Varghese, Secretary, Toc H Public School Society. Dr. K Varghese, Founder Director & Manager, Toc H Public School Society presided over the function.



International Conference on Bio-Inspired Computing and Applications (IBICA '18) and 8th World Congress on Information and Communication Technologies 2018, Kochi, India (WICT'18)

The Department of **Computer Science and Engineering** of **Toc H Institute of Science and Technology, Arakkunnam, Kochi**, successfully conducted the 9th International Conference on 'Innovations in Bio-Inspired Computing and Applications' and 8th World Congress on Information and Communication Technologies 2018, Kochi, India (WICT'18) from 17-19 December 2018. The events were conducted in association with Machine Intelligence Research Labs (USA) which aimed to provide 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. **Dr. Oscar Castillo, Senior Professor at Tijuana Institute of Technology, Mexico** inaugurated the conference on 18th December 2018 at Toc H. **Dr. Alex Mathew, President**, Toc H Public School Society presided over the inaugural ceremony. In the welcome speech, **Dr. K Varghese, Founder Manager and Director**, Toc H Public School Society, urged the need to leverage the understanding of key principles, processes, and mechanisms in biological systems into design, engineering, and technological applications useful for mankind. **Dr. Ajith Abraham, Director, MIR Labs**, presented the theme of the events. He talked on varied aspects of bio inspired computing and modern information and communication technologies. **Er. C S Varghese**, (Secretary, Toc H Public School Society), **Dr. Florin Popentiu Vladicescu (University Politehnica of Bucharest, Romania)**, **Dr. Sheng-Lung Peng (National Dong Hwa University, Taiwan)** and **Dr. Preethi Thekketh**, Principal, Toc H, felicitated the gathering. **Dr. Sreela Sreedhar**, HOD, CSE, proposed the vote of thanks.

The three day conference witnessed plenary sessions on "Bio-Inspired Optimization of Type-2 Fuzzy Logic Systems" by Dr. Oscar Castillo, Tijuana Institute of Technology, Mexico and WICT18 included "On the Wiener Index Spanning Tree Problem" by Dr. Sheng-Lung Peng, National Dong Hwa University, Taiwan and "New Computational Intelligence Techniques in Software Reliability Engineering" by Dr. Florin Popentiu Vladicescu, University Politehnica of Bucharest, Romania.

The events proved to be a significant one where researchers from Europe, US, Africa, and Asia presented about 51 different papers, based on the topics like Fuzzy Logic, Data Mining and Knowledge Discovery, Artificial Neural Networks, Particle Swarm Optimization, Genetic Algorithms, Applications of Bio-inspired Computing etc. The proceedings of the conference will be published by Springer: Advances in Intelligent Systems and Computing. IBICA'18 is co-sponsored by KSCSTE (Kerala State Council for Science, Technology and Environment).