ZYGOS 2.0

ZYGOS 2.0 is a two day event conducted by IEEE SB TKMIT at TKM institute of Technology. The event was held on Feb 16 and 17. The event started at 10 am with an inauguration ceremony. The chief guest was Nandu.

Three workshops were conducted as a part of the event. They are Internet of Things (IOT), Drone and Ethical hacking. On the final day there was a talk by NeenaMenon and Jerry Mary David.

NeenaMenon is also known as R J Neena. She is a person who has become an ideal for youth across Kerala.She works as a Radio Jockey in Kochi. She has a passionate, charming and vibrant personality.

The technical talk was done by Jerry Mary David, an ex-chairperson and the first women chairperson of IEEE TKMIT. She is presently working in the biomedical manufacturing company Medtra which is a subsidiary of Medtra World, USA. She has always been hardworking, ambitious and determined and has organized several

inter college and intra college and volunteered several IEEE events which aided to gain her skills as well as experience.

IOT [INTERNET OF THINGS]

The IOT program was a two day workshop. The workshop was conducted in the IT Lab of TKMIT. The session was handled by 4 staffs from PACE Lab, Kochi namely – UmerMuqthar, Mahesh M T, Krishna Prasad and RajathNavas.

Day 1

The program started at 2pm in the afternoon. It consisted of nearly 60delegates,among them 15were from TKMIT and rest were from other colleges.Nearly 7 volunteers were assigned in the IOT workshop. Initially, the class was divided into 6 groups having 10 delegates each. The software was installed and it took nearly 1-hour for installation. The staff taught how to use the software and the theory regarding this. The topic mainly dealt with the Arduino Uno and Proteus software. The program was typed and the output was taken from the Proteus software.

Day 2

Theworkshop started at 9 am. The kit was given to the delegates for practical purposes. Nearly ten programs were worked out by the delegates using the trainer kit.The workshop was an interactive session and some of the delegate's doubts were cleared by them. The class ended at 1pm and the feedbacks were taken from the delegates.

DRONE

The Droneprogram was a two day workshop. The workshop was conducted in the EdusatHall. The session was held by 2 staffs from Q lab.

Day 1

The workshop started at 12:00 pm in the afternoon. It consisted of nearly 56 delegates. Nearly 8 volunteers were assigned for the Drone workshop. Initially, the class was divided into 7 groups having 8 delegates each. Firstly, it was an introduction class about Drone. They taught about different types of drones available and its parts. Also, the basic function of each part of drone.

Day 2

The class started at 9:30 am. The delegates were provided with the drone kit. With the help of the Q lab's team, the delegates assembled the drone(quadcopter). The flying class was also given to delegates in which they were taught how to fly a drone. Finally, with the instruction of Qlab's team the delegates flew the drone. After that a feedback session was conducted, delegates from each group came forward and shared their views about the workshop. With the feedback session the workshop came to an end. The class ended by 2pm.

ETHICAL HACKING AND MOBILE SECURITY

The session was conducted by Mr. Soloman Jakkim. He is working in Microsoft office.

Day 1
The workshop started at 12:00 pm in the afternoon. Introduction to hacking and software's used in hacking were taught. They focused more on Kali Linux and Windows Operating system. Then they went in detail about Kali Linux and asked the participants to install it in their laptops. They familiarized the students with nearly 600 hacking tools in Kali Linux. Then they taught them Windows Operating system which deals with IP address spoofing. TOR software is also taught. The session ended with introduction to CTF (Capture the Flag).

Day 2

An interesting contest on Capture the flag took place during the first half of the session. A code (twice encrypted) was given to the participants to decrypt it. 10 students among the 60 could encrypt it once, where only 1 student encrypted it twice and was declared as the winner. They then next taught how to hack phones using windows operating system. They taught about payload and steps to hack a phone using it. Class on how to spoof one's IP address using proxy and to create a server using anonymous IP has been taken. The session ended at 2 pm.

The whole event of ZYGOS 2.0 ended on day 2 at 4 30 pm with a feedback and photo session.

 OUTCOME

It helps the students to familiarize latest technologies. They also got opportunity to understand the career opportunities in the current scenario. Students improve their confidence level by attending the different interactive sessions.