

REPORT

On

ONLINE ENTREPRENEURSHIP AND SKILL DEVELOPMENT PROGRAM

18th JUNE -20th JUNE 2020

QIS College of Engineering and Technology has organized three days online entrepreneurship and skill development program for CSE, ECE and IT students

From 18th June -20th June, 2020

The online entrepreneurship and skill development program received an overwhelming response with more than 200 participants registered at online Google registration link. There are 98 students attended from our college. There are three resource persons 1. Mr. Ram 2. Mr. Yogesh M. Iggalore and 3. Dr. T. Rajendran for conduction of ESDP programme.

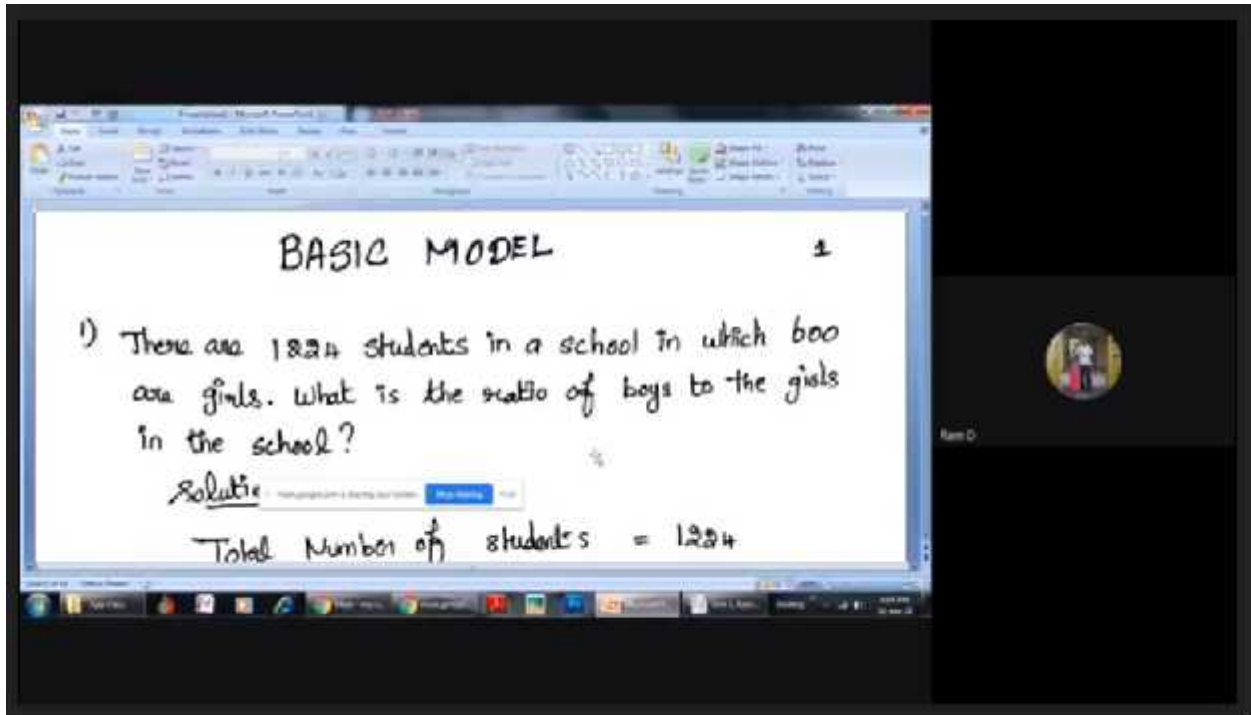
Date: 18th June 2020

Inauguration & 1st Day Session

ESDP was inaugurated on 18th June, 2020 by Dr. J. N. Swaminathan, Professor & Head, Signal & Systems and Data Transformation, QIS College of Engineering and Technology in Google meet application.

Dr. J. N. Swaminathan has welcomed all the dignitaries and delegates. In his welcome speech, he highlighted the importance and objectives of organizing this entrepreneurship and skill development program. Dr. O. Vignesh, AP/ECE introduced the guest speaker Mr. Ram, Aptitude Trainer, Jet Academy, Theni, Tamilnadu.

On the first day, Mr. Ram explained the need and relevance of this workshop and focused more on the transition of students from adolescents to youth. He deliberated more on the desires of students and explained in detail about ratio & proportion problem shortcuts with different models. He discussed various problems on ratio problems. Each problem was explained with worked examples and followed by the students solved the problem and shared their results in Google meet chat box. He also shared some example exercise problems with our students. At the end, the day 1 session was concluded with a vote of thanks given by Dr. S. Suresh Kumar, Head – EDC.



Day 1 Screen shot

Date: 19th June 2020

2nd Day Session

Dr. J.N.Swaminathan has welcomed all the dignitaries and delegates. Dr.S.Suresh Kumar, Head - EDC introduced the guest speaker Er.Yogesh M Iggalore, Senior Application Engineer, METI M2M India Private Limited, Mysore, Karnataka.

During the day he introduced the audience to IoT, Industry 4.0, its need, key principles of Industry 4.0, key components of IoT, variety of products and applications of IoT. He also shared his experience and developed products with participants. Participants had the opportunity to learn how to build their product and new embedded boards and software namely, Arduino boards and Kicad, easyeda and falstad. They were given live demo about the usage of this software's which impressed the participants a lot. At the end of the session, he talked about the idea to plan their engineering education life with different skill sets and how to file patent & IPR for their developed products. The speaker showed his developed automatic hand sanitizer product for the participants and during usage in COVID19 pandemic and also source code is open for public use. At the end, the day 2 sessions was concluded with a vote of thanks given by Dr.O.Vignesh, AP/ ECE.

IoT Product Development Process

- 1 Market Research & Feasibility study
- 2 Develop design specifications
- 3 Project scheduling
- 4 Component selection
- 5 Design of Preliminary hardware (Schematic and board design)
- 6 Firmware architecture and development
- 7 Hardware and Firmware testing
- 8 Server communication development
- 9 Server communication testing
- 10 Final Integration and testing
- 11 Production

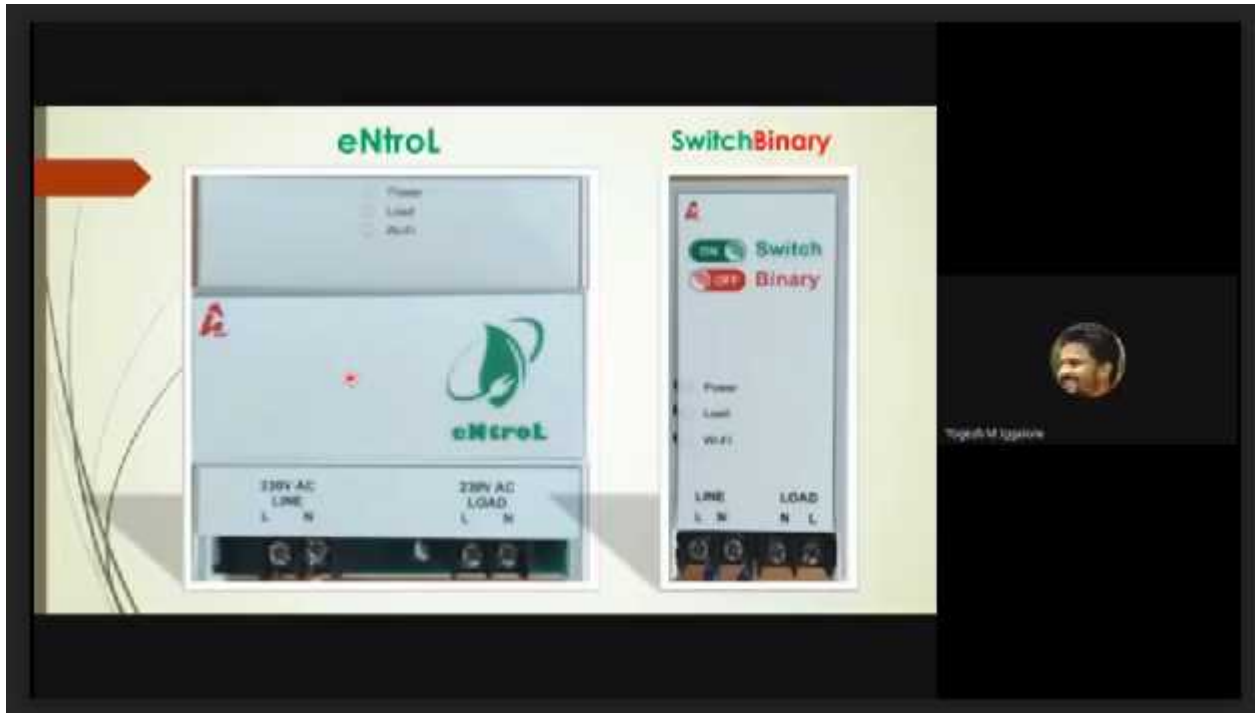
Vignesh M Aggarwal

Day 2 Screen Shot of IoT Product development process

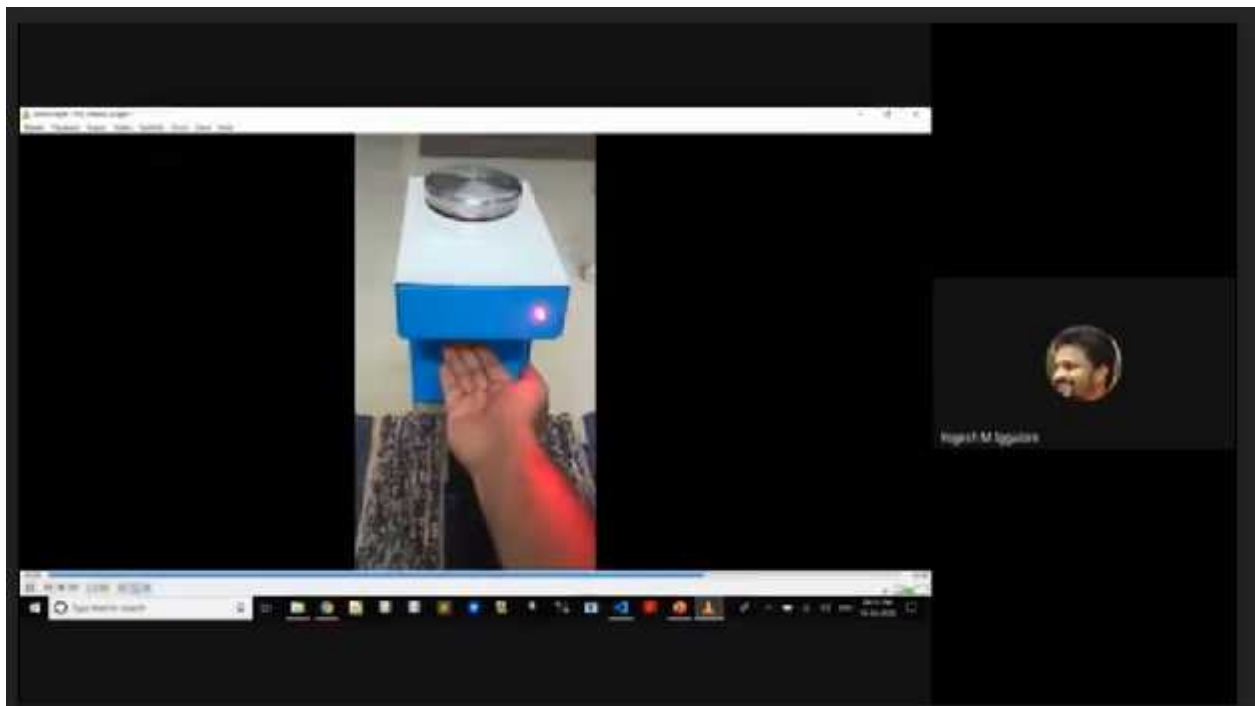
Design of Preliminary hardware (Schematic and board design)

Vignesh M Aggarwal

Day 2 Screen Shot of PCB Designing



Day 2 Screen Shot 3 eNtrol and SwitchBinary products



Day 2 Screen Shot 4 – Automatic Hand Sanitizer Product

Date: 20th June 2020

3rd Day Session

Dr. J.N.Swaminathan has welcomed all the dignitaries and delegates. He introduced the guest speaker Dr.T.Rajendren, ICSI, UK Certified Cyber Security Specialist and CISCO Certified CCNA Instructor, Chennai.

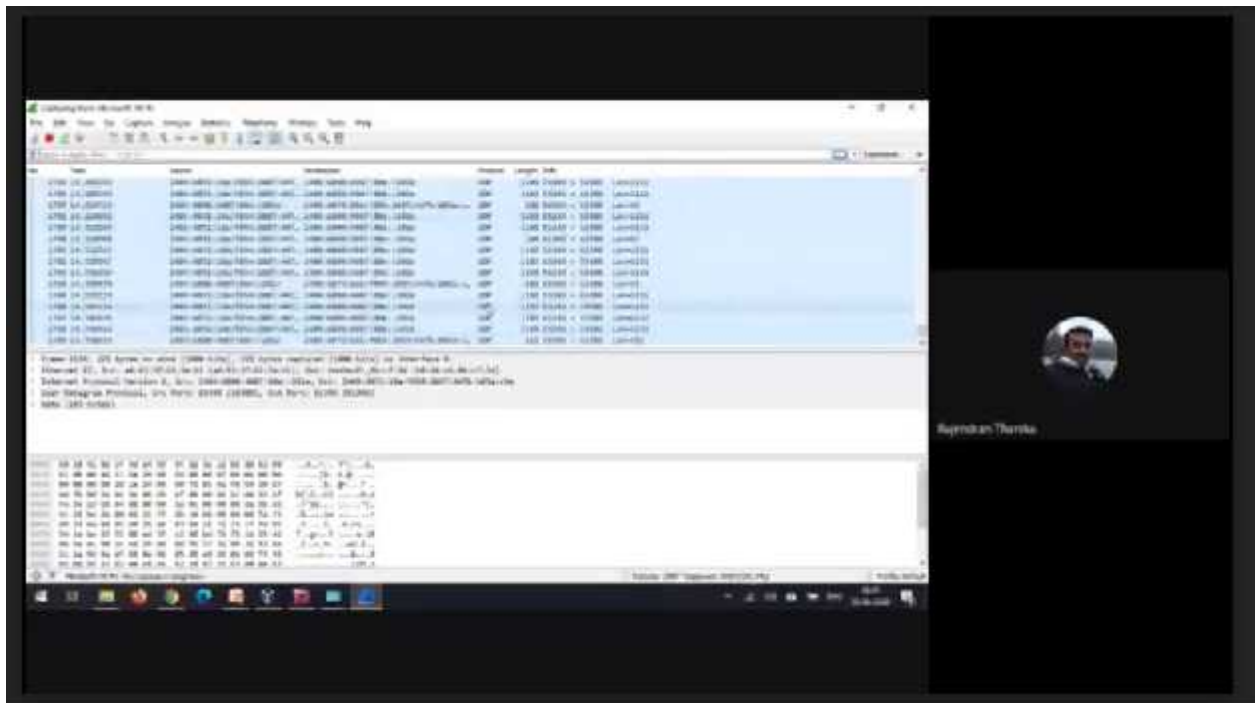
He also covered the following topics:

1. Importance of cyber security
2. Network essentials
3. Security threats
4. Types of attacks
5. How to defence the attacks
6. Opportunities in cyber security space.

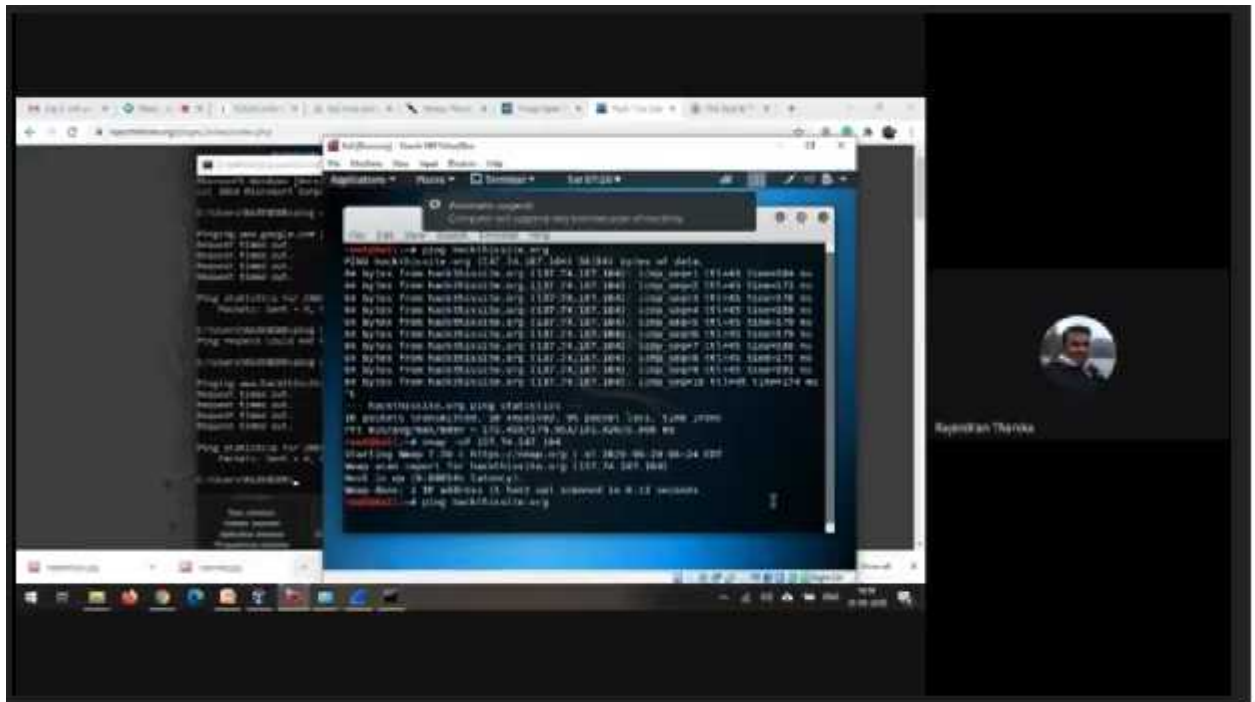
Besides, he has given the some example of some real time website for calculating internet users all over the world and different secure web search engine. He also explained Security Vs Privacy and given the introduction of different tools. At the end, the day 3 session was concluded with a vote of thanks given by Dr.S.Suresh Kumar, Head – EDC.



Day 3 Screen Shot of Cyber Security Importance



Day 3 Screen shot of IP Usage



Day 3 Screen shot of Introduction to Kali Software.

Program Outcomes

1. Students understood the importance of the soft skills and learnt the different models of ratio problems.
2. Students have benefited by this workshop and understood the basics of industry 4.0 and learnt to build their own IoT product from scratch to production.
3. Students understood the basic issues, challenges of cyber security and got the idea how to prevent from cyber crime.

Enclosure

1. ESDP brochure
2. ESDP schedule
3. List of participants