UNIVERSITI TEKNOLOGI MALAYSIA
SCHOOL OF COMPUTING
FACULTY OF ENGINEERING

TECHNOLOGY AND INFORMATION SYSTEM
(SECP1513-04)

Group members:

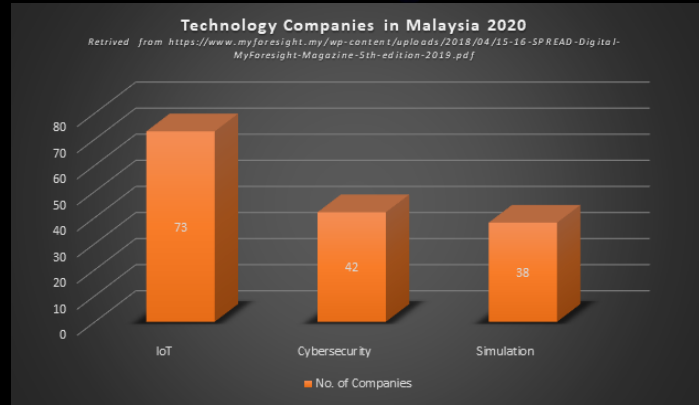| No.	Name	No. Matric
1	LIM YEU CHEN	A20EC0067
2	MUHAMMAD AFIQ AIZZAT BIN MOHTADZAR	A19EM0235
3	NOR FADLI BIN AHMAD	A20EC0109
4	AFAF BINTI AZMAN	A20EC0175

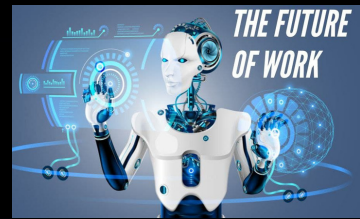Topic: Industrial Talk #1 Report

Name of Lecturer: Dr. Goh Eg Su

Subject: Technology and Information System (SECP1513)

Introduction

Technology Companies in Malaysia 2020
Retrieved from https://www.myforesight.my/wp-content/uploads/2018/04/15-16-SPREAD-Digital-MyForesight-Magazine-5th-edition-2019.pdf

- IoT: 73
- Cybersecurity: 42
- Simulation: 38

No. of Companies

On November 24, 2020, an industrial talk titled "Industry 4.0: Past, Present and Future" was held via Cisco Webex Meetings and Facebook live broadcast from 10:00 a.m. to 12:00 p.m. The event invited Mr Redzuan Shah Bin Yussoff (Director of the Southern Strategic Economic Region, Telekom Malaysia) as the speaker. This industrial talk was hosted by Digital Services Department (UTMDigital), Universiti Teknologi Malaysia and moderated by Mr Nik Kamal Izuddin Bin Nik Ibrahim. Students who take Technology and Information Systems course are required to attend the talk.

The above chart has shown the top three highest number of Malaysian Technology Companies in 2020. It is clearly shown that a large number of companies relating to IoT is being established. The others are also our focuses as they are also the key components of Industrial Revolution 4.0.

THE FUTURE OF WORK

Details of Journey

IR 1.0 – revolution of mechanical production
(Steam, water)
IR 2.0 – revolution of mass production (electricity)
IR 3.0 – revolution of digital (IT, electronics)
IR 4.0 – revolution of cyber physical system (physical, digital, biological)

Components of IR 4.0

Autonomous robots
Simulation
System integration
Industrial internet of things (IoT)
Cybersecurity
Cloud
Addictive manufacturing
Augmented reality (AR)
Big data and analytics

Higher job opportunities will emerge in these fields for enhancing IR 4.0 Technology. For instance, the future jobs can be comprising
- 3D printing technician
- Biomechanics service person
- Computer vision engineer
- De-extinction zoologist
- Electronic textile designer
- Ethical hacker

1st
Mechanization, water power, steam power

2nd
Mass production, assembly line, electricity

3rd
Computer and automation

4th
Cyber Physical Systems

Reflections

Throughout the industrial talk, there is a prediction or illustration vaguely coming out in my mind regarding the future trends and development in Malaysia. It cannot be demurred that the industrial revolutions are easing the mankind's life distinctly.

Example of IR 4.0

Education 4.0, Commerce 4.0, Automotive car, Smart home

This industrial talk has given insight to me on the progress of Malaysia's Industrial Revolution 4.0 journey. I have the ambition to help Malaysia achieve that goal in the future.

Commerce 4.0

amazon

From this industrial talk, I had improved my knowledge on Industry Revolution 4.0 and I also learned about 4IR. I hope that I can contribute to my country development so that Malaysia will be more advance in this aspect.

Shopee   Grab

Based on the talk #1, I have realized the details about industrial revolution especially for IR 4.0. The compound of IR 4.0 also is presented and it give me a sign that education system in Malaysia now is adopting IR 3.0 only.
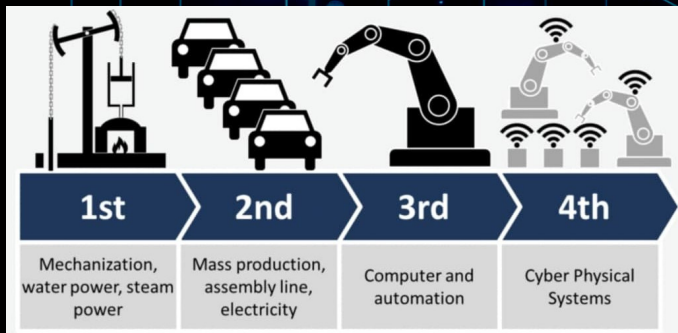
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