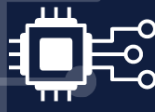


Subject : Technology and Information Systems (SECP1513) Section 3
Assignment : Industry Talk 1

GROUP NAME / NUMBER: 6

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INDUSTRIAL 4.0



PAST ,PRESENT ,FUTURE

INTRODUCTION ?

- History of Industrial 1.0, Industrial 2.0 and Industrial 3.0
- The birth of artificial intelligence in 4th industrial revolution
- Components of industrial 4.0:
 - big data analytics, autonomous robots, simulation, system integration, industrial internet of things, cybersecurity, cloud, additive manufacturing and augmented reality
- The functionality of the components and its advantages.



Speaker: Redzuan Bin Yusuf
(Southern Strategic Economic Region, Telekom Malaysia)
Date: 24 November 2020
Time: 10am-12pm
LINK: <http://tiny.cc/UTMDigitalTalk>




REFLECTION

- From the industrial talk, the Industrial Revolution 4.0 brings many things to look forward to. Things like cloud computing, e-commerce, manufacturing, autonomous robots and data systems can make our lives easier and more efficient. For example, the introduction of 5G network helps to speed up the internet, data and information systems and all things related to the IoT.
- Therefore, knowing the possibilities and the advantages that the Industrial Revolution 4.0 can bring, we can learn from the past and move on with our better lives.
- Through this revolution of technology, we must appreciate the current technology and its benefits so that we can utilize them to make our country technologically advanced and to compete with other countries internationally.
- The talk had also mentioned some future jobs that are possible with the happening of the Industrial Revolution 4.0 such as machine learning engineer, electronic textile designer and similar others. These future jobs look promising as they can help boost our country's economy while maintaining work efficiency at the same time.
- Therefore, students and graduates need to prep up their skills and knowledge on using and applying technology in everyday life from now on in order to qualify into technologically advanced workplaces.

Content

9 component of IR 4.0

- Autonomous robot 
- Simulation
- System integration
- Industrial internet of things

- Cybersecurity
- Cloud 
- Additive manufacturing
- Augmented reality
- Big data and analytic




TREND



E-Commerce 4.0

- Adoption of commerce 4.0 by implement machine learning technology
- Study shopping behavior

Education 4.0

- Via online 
- Media digital means
- Still adapting in Malaysia
- Eg: virtual reality, augmented reality



Autonomous

- Autonomous Vehicles and Smart Homes

FUTURE JOBS



- Market demands based on trends
- Job evolving based around IR 4.0
- Example of future jobs: ethical hacker, 3D printing technician

FUTURE

- We can control our life with one device
Eg: smart home, mobile payments
- In 2020, 73 Malaysian Technology Companies have implemented the Internet of Things (IoT) and Augmented Reality in their works



- Helps in accelerating IR 4.0
- Main component : fibre
- Nearest roll-out is 2022
- Target on sustainable and enriching community
- JENDELA focuses on fibre roll-out throughout the nations

Summary

- Briefly, the industry now is focusing in technology towards the next IR4.0 which will be significant for the future. This results huge opportunities in employment sector. The development of 5G technology also plays a big role in which not only expanding the implementation of Internet of Things (IoT) but improve the network especially in rural areas. Therefore, IR4.0 will become the next big thing in improving our way of living. We hope that IR4.0 can help Malaysia strive in the industry internationally.