

UICL 2302 THINKING OF SCIENCE AND TECHNOLOGY  
SEMESTER 2 SESI 2018/2019  
SEMINAR UICL 2302: HUMANISING SCIENCE AND TECHNOLOGY IN THE ERA OF  
INDUSTRIAL REVOLUTION 4.0

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(Attendance: 3%)  
(Review report: 7%)

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SECTION: 28

LECTURER'S NAME: Dr. Corriema Binti Abdul Talib

INSTRUCTION: Explain seven (7) main points from the talk.

1. The 4<sup>th</sup> Industrial Revolution is intelligence information technology which leads the intelligent information society and the digital transformation at 21<sup>st</sup> century. For example, with the intelligence information technology 5G wireless network is 280 times faster than LTE and 70 times faster than 4G.
2. The reasons that technology needs to become more human are convenience, simplification and Greater inclusion. Convenience means that personalized, quick & easy access to information. Besides, technology supposed to reduce the complexity of daily lives. The speed at tech bears the risk of excluding less tech-savvy people from benefit.
3. Humanizing science and technology is intellectualization (human-machine) which including machine learning & big data make machine think like human. Besides, virtualization (Reality visual). For example, VR/AR, smart car. Hyper-connection (Human things) is digital network expand human-human, human-thing & thing-thing interaction.
4. Humanizing technology is related to human and machine, real world and virtual world, emotional computing technology and smart technology.
5. ~~Innovation in big data, IoT, etc, digital market~~ global change trends in response to the 4IR which are growing importance of the user experience, innovation to happen rapidly.
6. Impact of small data to big data is high resolution visualization in multi-D, accurate prediction classification and real time observation monitoring.
7. Holistic Approach
  - ① process  
- improving operational excellence
  - ② data  
- making better decision with better data
  - ③ Technology  
- optimizing and leveraging technology
  - ④ organization  
- developing a high performance culture.