

Assignment 1
Robot Technology for Automation SKEM 4153
Semester 2 2018/2019

Assignment Tasks:

Form a group of maximum 5 persons. You are required to undertake the following tasks:

- Search and select 3 videos from internet showing good example of robot technology for automation. Following are the criteria of the videos:
 - The 3 videos must show example of 3 different layouts namely Robot Centered Work Cell, Inline Robot Work Cell and Mobile Robot Work Cell.
 - The 3 videos can be from different applications.
 - Carry out the cycle time calculation
 - Propose how to improve the cycle time.

Deliverables

You will need to submit report, power point slide and videos on 14th March 2019 via **hardcopy** and **email** to cfyeong@utm.my (with title **SKEM4153 Assignment 1**). The report should not more than 10 pages (print both sides) and should consist of following:

- Front page with members name
- Introduction
- Description of each video for all the 3 videos
 - Description of the example of automation
 - Type of Work Cell Layout. Explain why using such layout?
 - Cycle time Analysis
 - Improvement proposal
- Conclusions

You will need to present with slide not more than 10 mins and 2 mins Q&A. The presentation should include playing the video. Make sure all the videos are presented by different person. Please download and edit the video if required to ensure your presentation is on time.

