**Tello / Tello EDU Programme Tentative**

1. Block Programming (Beginner) -- Learn the basic control of the drone by using “Tello EDU” apps
   1. Manual Control – Getting familiar with the drone control
   2. Autonomous Control – Program the drone for the specific movement

\*\* An activity based on FIRA Air – Autonomous Race will be conducted once the participant successfully understand to control the drone (manually or autonomously)

\*\* A track race with obstacles mimic the FIRA Air – Autonomous Race will be used

1. Code Programming (Intermediate) – Control the drone with Python and library
   1. The participant will be guided to install a certain package required to program the drone. The packages are:
      1. Python (What Python version required?)
      2. Tello-Python (There is many version of tello-python available, which on eto choose?)
      3. OpenCV – image processing, etc. (Which version should be use? – compatible)
      4. Others – Tensorflow, imutils, etc..
   2. Learn a basic of drone control by Python program.
      1. Basic Movement
      2. Using drone camera
   3. Autonomous Control:
      1. Autonomous Movement
      2. Object tracking, obstacle detection; avoidance
      3. QR Code recognition

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\*\* A track race with obstacles mimic the FIRA Air – Autonomous Race will be used