

## APPENDIX D: Questionnaire

I am Beh Kheng Tat, currently pursuing Bachelor of Mechanical (Hons) and majoring in Manufacturing (Final Year Student). I am here to conduct a survey on “**The study on Students’ problems in Learning Statics**”. All information gathered is strictly for academic purposes only. Your cooperation is highly appreciated. Thank you for your kind cooperation.

Year: \_\_\_\_\_ Semester: \_\_\_\_\_

### Section A: Demographic (Please tick in the box)

- Q1. Gender :  Male  Female
- Q2. Nationality :  Malaysian  Others: \_\_\_\_\_ (Please specify)
- Q3. Race :  Malay  Chinese  
 Indian  Others: \_\_\_\_\_ (Please specify)
- Q4. Entry level :  Foundation  Matrikulasi  STPM

### Section B: Survey Information (Please tick in the box)

Q1. What is your Grade for physics in STPM/Foundation/Matrikulasi/Senior High School?

- A  A-  B+  B  B-  C+  C

Q2. What is your Grade for physics in SPM/Junior High School level?

- 1A  2A  3B  4B  5C  6C  7D

Or  A  A-  B+  B  B-  C+  C

Q3. Please tick in the box for **each sub-chapter**, about your comprehension in learning Statics.

- |                                   |                               |                                  |                               |
|-----------------------------------|-------------------------------|----------------------------------|-------------------------------|
| a. Force Vectors                  | <input type="checkbox"/> Good | <input type="checkbox"/> Average | <input type="checkbox"/> Poor |
| b. Equilibrium of a Particle      | <input type="checkbox"/> Good | <input type="checkbox"/> Average | <input type="checkbox"/> Poor |
| c. Force System Resultants        | <input type="checkbox"/> Good | <input type="checkbox"/> Average | <input type="checkbox"/> Poor |
| d. Equilibrium of a Rigid Body    | <input type="checkbox"/> Good | <input type="checkbox"/> Average | <input type="checkbox"/> Poor |
| e. Structural Analysis            | <input type="checkbox"/> Good | <input type="checkbox"/> Average | <input type="checkbox"/> Poor |
| f. Internal Forces                | <input type="checkbox"/> Good | <input type="checkbox"/> Average | <input type="checkbox"/> Poor |
| g. Friction                       | <input type="checkbox"/> Good | <input type="checkbox"/> Average | <input type="checkbox"/> Poor |
| h. Center of gravity and centroid | <input type="checkbox"/> Good | <input type="checkbox"/> Average | <input type="checkbox"/> Poor |

i. Moments of inertia  Good  Average  Poor

Q4. Are you facing any difficulty in learning Statics? If any

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Q5. In your opinion, which mode of learning will be effective for you? Please **tick 3 most preferable mode.**

- a.  Lecture mode
- b.  Laboratory mode (Laboratory mode is the learning equipments used in laboratory to conduct for experiment such as Force Table as shown in Figure 1.)



Figure 1: Force Table

- c.  Learning kit (Learning kit is hand-on equipment which is easy to operate and can be used to conduct various type of experiments and easy to operate. It is highly visual and ideal for classroom demonstration and sometimes it can be used as learning tool in laboratory such as TQ learning kit as shown in Figure 2. )

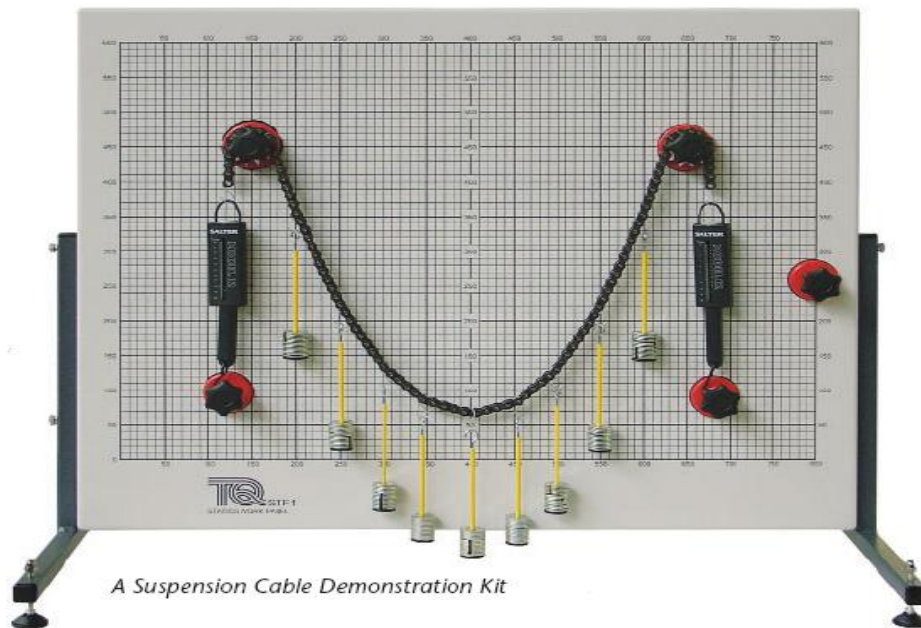


Figure 2: TQ learning kit

- d.  Tutorial
- e.  Group study / Discussion
- f.  Personal consultation with lecturer