# Face-to-Face or Online teaching? Interdisciplinary research project experience

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# **Context**

The interdisciplinary Health Research Project (HRP) requires students from MBBS, Nursing and BPHM to complete research on humans and write a scientific report.

In previous years, the lectures, tutorials and statistical workshops were faceto-face, but last school year the course was delivered online due to COVID 19 and social unrest.

Our objective was to compare these two modes of teaching.

## Intervention

A quantitative study analysed

- 1) students' self-perceived difficulties
- 2) and satisfaction on achieving learning objectives

at the end of face-to face teaching in 2018-2019 and online teaching in 2019-2020.

Data of both years were compared using SPSS software.

## **Observations**

#### 1) Students' experience/ self- perceived difficulties

Compared with face-to-face mode, students felt much easier in most areas of the projects when course was delivered online. These areas included level of difficulty on :

- deciding on topic (P=0.001),
- designing approach to study design (P<0.001);</li>
- writing protocol (P<0.001);</li>
- assessing ethical risks of the proposed study (P=0.02);
- preparing questionnaire (P<0.001);</li>
- submitting IRB (P<0.001);
- Only field work was similar (P=0.75).

- data analysis(P<0.001),</li>
- writing final report (P<0.001)</li>
- poster presentation (P=0.03);
- meeting the deadline for IRB (P<0.001);</li>
- meeting the deadline for report (P<0.001);</li>
- meeting the deadline for poster presentation (P<0.001).</li>

Overall, students felt the workload was significantly decreased (P<0.001).

Figure 1

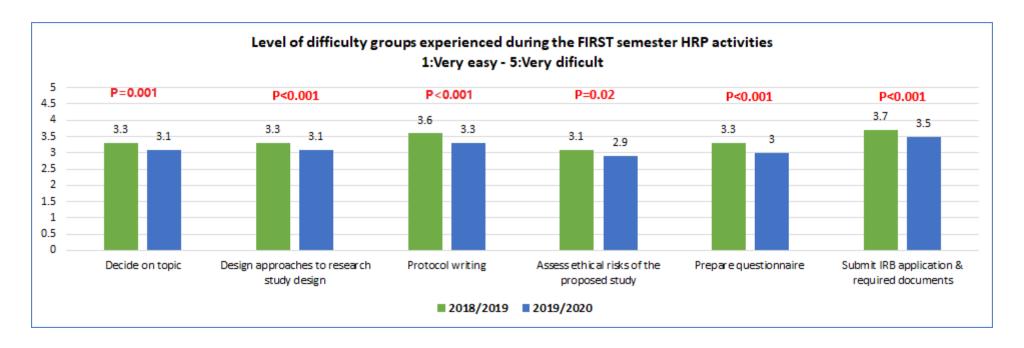
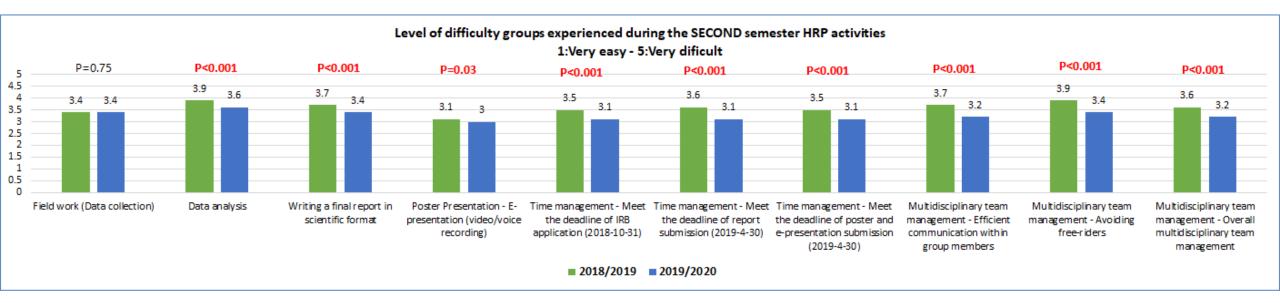


Figure 2



## **Observations**

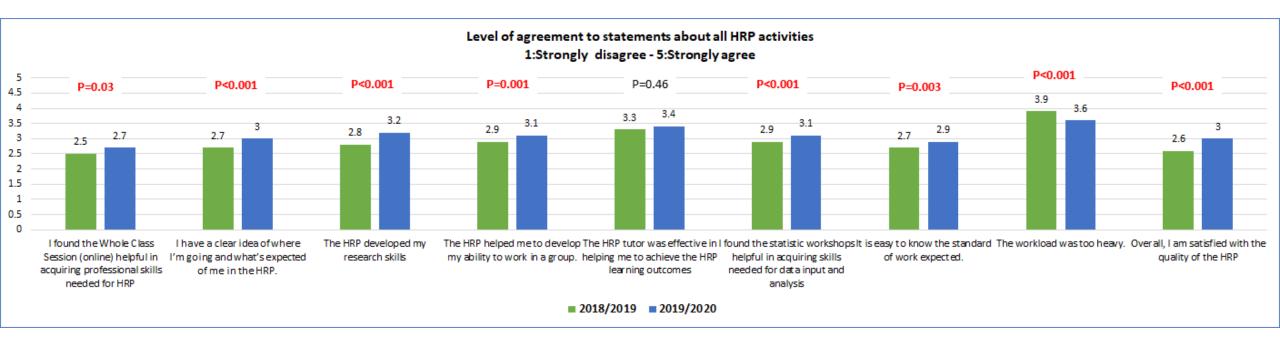
#### 2) Students' satisfaction

Compared with face-to-face mode, when the course was delivered online, students' felt HRP was very helpful in

- acquiring professional skills (P=0.03);
- developing their researching skills (P<0.001);</li>
- developing skills working in group (P=0.001);
- acquiring skills in data input and analysis (P<0.001).</li>

Overall, students' satisfaction was significantly increased (P<0.001).

Figure 3



# **Conclusions**

Both student's self-perceived difficulties and satisfaction were significantly improved during online teaching compared with face-to-face teaching.