

Newly entered medical students' views on an Information Communication Technology course

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Abstract

Even though Information and Communication Technology (ICT) has a relatively short history, it has become a part of the medical industry, not only in selected areas of high technology medicine, but throughout the industry. Apart from using IT for medical education, it has become a mandatory element in modern medical and surgical practice. Therefore, an ICT course was designed for the new entrants of the Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka and the perception of students on the course was evaluated using a validated questionnaire. The results of this study confirmed that the course was well organised and interesting but the time allocated for the course needs to be increased.

Keywords - Information Technology; ICT course; Medicine; Rajarata University of Sri Lanka

Background

Medical education is complex. Its goal is to provide students with sufficient conceptual information and clinical reasoning tools to ensure the competency of its graduates⁽¹⁾. Today, this task is challenging because of the exponential growth in biomedical information and the time pressure experienced by medical educators. Electronic tools have the capacity to facilitate medical education, as well as to fundamentally improve our ability to ensure the competency of the medical under-graduates⁽²⁾. Based on classroom teaching experience, it is concluded that the teaching of basic information technology needs to be integrated into medical studies to improve student performance^(3,4).

ICT has made a great impact on medical practice, not only in selected areas of high-tech medicine, but in the entire field. The value of ICT lies in its ability to store, analyse, and communicate large amounts of information at very high rates of speed. These capabilities

translate into a number of potential advantages for developing medical devices. In order to use them effectively and efficiently, medical officers should have competency in ICT⁽⁵⁾. Therefore, medical students must have a certain level of ICT awareness to build a successful carrier.

Materials and method

An ICT programme was designed for new entrants to the Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka to be followed during their orientation programme from November 2009 to February 2010. After following the ICT programme, a feedback was obtained from new entrants using a validated questionnaire.

Results

A total of 183 students responded. The responses given by students about different aspects of the course are in figure 1. The responses given by students about the overall ICT programme is in table 1.

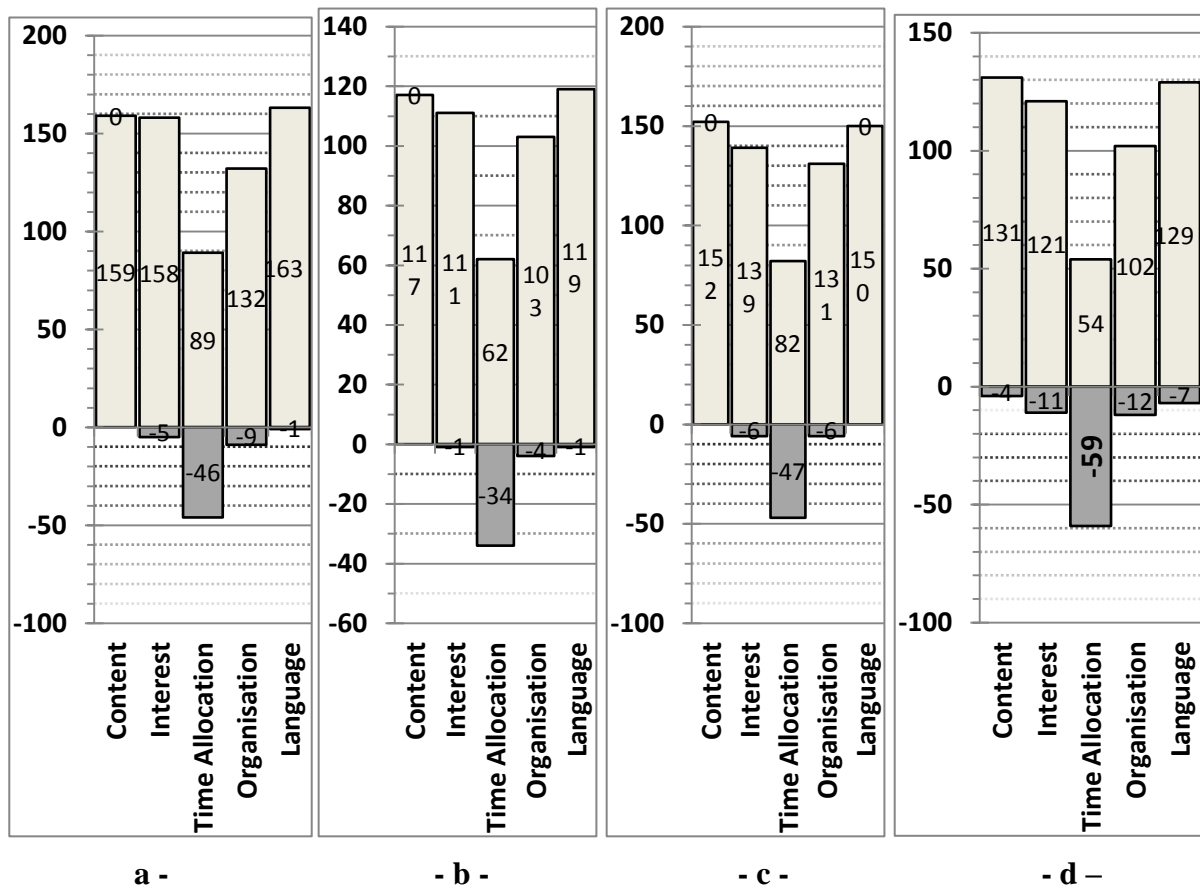


Figure 1. Responses of students for questions on each module.

- a: Word processing, b: Presentation designing, c: Data management and analysis
- d: Networking and Internet
- Agree ■ Disagree

Results show that 91.3% agreed that contents of lectures and discussions were useful. While 84.6% felt that the teaching sessions were interesting. Only 30.6% felt that the time allocation for modules was sufficient. About 77% concluded that it was a well organised programme. while 95.6% found the language used in teaching easy to understand.

	Strongly agreed	Agree	Not sure	Disagree	Strongly disagree
Contents of the lectures and the discussions were useful	92	77	14	0	0
Teaching sessions were interesting	62	93	20	6	2
Time allocated for modules is enough	28	28	58	39	30
Teaching was conducted in a well organised manner	52	89	29	8	3
Language was easy to understand	81	94	8	0	0

Table 1. Responses of students for questions on the overall ICT programme.

Discussion

Use of ICT as a tool to support medical teaching and learning was newly introduced at Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka. Similar trends have been reported in other universities in Sri Lanka⁽⁶⁾. In our study we observed that most students accepted the novel ICT method. Most of the students accepted the contents, teaching methods, organisation and language of the course but not the allocated time for each module especially in ‘Networking and Internet’ module. Implementing new ICT programme will be costly initially but once established it could be used for future students as well. Instructors also should be thorough when teaching ICT to students.

Conclusion

The majority of students felt that the course was well organised and used a simple language which resulted in very interesting teaching sessions. The contents of the course were very useful and they requested that the time allocated for the overall course be increased. Therefore, the programme needs to be further modified considering the above identified drawbacks. This will help develop an effective ICT programme for the next entrants.

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