

## Poster session in instructional technology course

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Artina Diniaty, Lina Fauzi'ah, Beta Wulan Febriana, and Widinda Normalia Arlianty



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# Poster Session in Instructional Technology Course

ArtinaDiniaty<sup>1,a)</sup>, Lina Fauzi'ah<sup>1)</sup>, Beta Wulan Febriana<sup>1)</sup>, and  
Widinda Normalia Arlianty<sup>1)</sup>

<sup>1</sup>*Department of Chemistry Education, Universitas Islam Indonesia  
Kampus Terpadu Jl. Kaliurang Km 14.5, Sleman, Yogyakarta*

<sup>a)</sup>Corresponding author: artina.diniaty@uui.ac.id

**Abstract.** Instructional technology course must be studied by students in order to 1) understand the role of technology in learning, 2) capable of analyzing advantages and disadvantages of using technology in teaching, 3) capable of performing technology in teaching. A poster session in instructional technology course was performed to 1) enhance students' interest in this course and develop students' creativity. The step of this research includes: planning, implementation, and evaluation. The result showed that students' responses towards poster session in instructional technology course were good.

## INTRODUCTION

Technological developments have affected all aspects of human life, not the exception in education. Technological advances require innovation in the learning system. Instructional technologies present here in order to deliver these innovations. The instructional technology was often interpreted to refer only to electronic equipment, whereas more than that, instructional technology has a broader meaning. The term instructional technology included a utilization environment that provides an overview of the technological functions of the education system more precisely, referring to the learning process as well as learning and problem-solving learning (learning facilities) [1].

AECT defined instructional technology as a theory and practice in the design, development, utilization, management, and evaluation of processes and resources used for learning [1]. Therefore, instructional technology cannot be separated from the studies in education. Its main objective was facilitating the learning to be effective, efficient, and fun. Instructional technologies to be one of the compulsory subjects Chemistry Education Department Islamic University of Indonesia. The existence of this instructional technology course aimed to provide stock to student prospective educators in order to understand and apply the utilization of instructional technology in the learning process. The learning process in the course of instructional technology should be done effectively and pleasant because the purpose of the instructional technology itself is to facilitate learning to be effective, efficient and fun. Therefore, poster sessions be a preference to be applied in the learning process in the instructional technology course. The poster session was a way that can be used to collect the imagination, gave rise to an exchange of ideas, and provide learning information presented in a poster [2]. The poster was a combination of visual elements such as lines, images, and words that have the purpose to attract attention and convey the message briefly [3]. Learning through poster session was expected to be fun and involve the participation of all students.

## RESEARCH METHOD

This research was a quantitative descriptive research. Stages in this study include planning, implementation, and evaluation. Activities at the planning stage were to compile learning tools in accordance with learning poster

session. Activities at the implementation stage of implementing the learning process poster session in accordance with the planning that has been done. As for the evaluation stage, an assessment of posters produced and used in the learning and assessment of student responses to learning poster session is done. This research was conducted in FMIPA UII with research subject is a student of the chemistry education department 3<sup>rd</sup> semester. Data obtained in this research was poster assessment data and student response data on learning poster session. The data collection instrument used a poster assessment sheet for poster assessment data includes content, design, image and message delivery aspects, while the questionnaire sheet for student response data on learning includes aspects of understanding, skills, and motivation. Data analysis technique used could be seen in Table 1 [4].

**TABLE 1.**Technique of AnalysisData

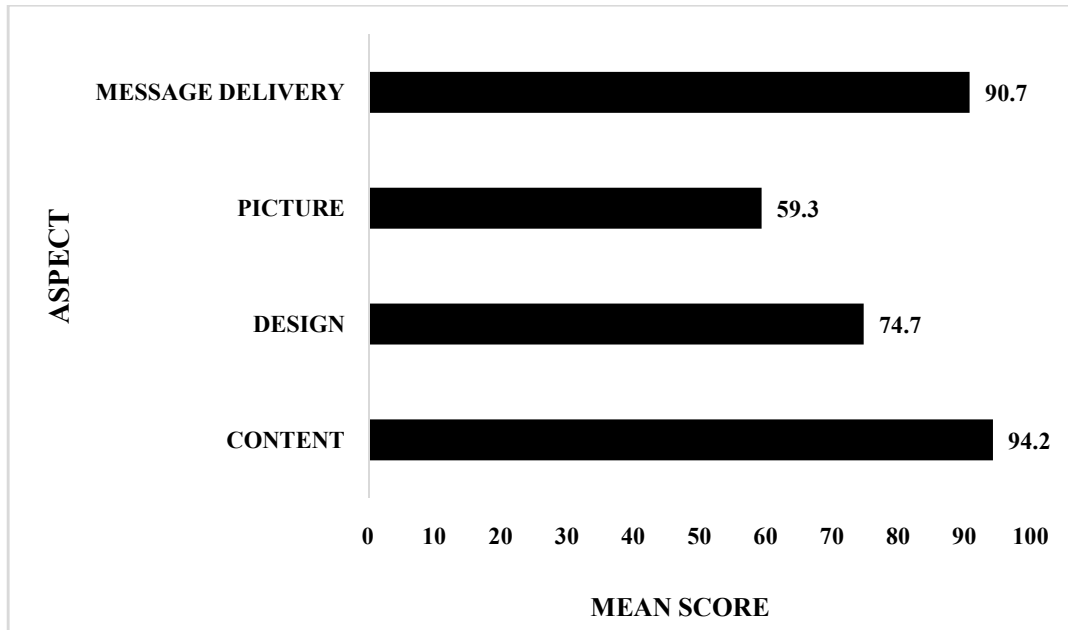
<b>Range of Score</b>	<b>Category</b>
$X \geq M + 1.SD$	Very Good
$M + 1.SD > X > M$	Good
$M > X \geq M - 1.SD$	Poorly
$X < M - 1.SD$	Very Bad

## RESULTS AND DISCUSSION

Learning poster session aimed to increase student interest in the study of learning technologies and enhance their creativity. The implementation of learning poster session included several stages, among others:

1. The lecturer gives the topic to the students  
The topic given to students is the topic of Information and Communication Technology (ICT) in learning. Learning poster session with ICT topic was appropriate because it described the state of the common and popular in the community. The topic was subdivided into subtopics given to students for discussion. The subtopics included the development of the use ICT in learning; principles of use ICT in learning; benefits of use ICT in learning; Weakness of use ICT in learning; The role of ICT in supporting 21st-century education; as well as the use of e-learning and online learning in the learning.
2. Students were divided into groups according to the number of students in the class (43 students were divided into 8 groups, each group get 1 subtopic).  
Implementation of learning poster session was done in groups with the aim that students have the skills to cooperate and share knowledge and experience with the other students in a group. Group learning also trained students to be more courageous in expressing ideas and sharing the motivation to learn.
3. Each group was asked to discuss subtopics obtained and subsequently presented in a poster.  
Implementation of the discussions carried out through several stages, each of those who had had subtopic to be discussed, then find references about the subtopic obtained through a variety of learning resources. Furthermore, it was discussed based on references that have been acquired previously. The results of the discussion were presented with a poster in accordance with the provisions of making a poster that has been given. These activities were expected to increase the active participation of all students in learning activities.
4. Representatives of each group were asked to present the results of their discussion to the class through poster they have created and ask another group to respond.  
Through this presentation, all students were expected to participate actively to present the results of group discussions and respond to the results of another group presentations related to the topic being studied.
5. All students discuss in classroom discussions  
Class discussion carried out by all the students related to the topic discussed in the learning through a poster session.
6. Lecturer confirm the results of class discussion  
Confirmation was given by the lecturer related to the topic that has been discussed in the class discussion. It could be the reinforcement the results of the discussions which were more detailed and right explanation as well as providing a positive response to students who participate actively in learning.
7. Lecturer asked the students to give conclusions of learning outcomes  
Students were directed to make inferences about the topic that has been studied. When students could make conclusions about learning outcomes, it was expected that the students have understood the topic that has been studied.

The result of poster assessment in learning poster session can be seen in Fig1.



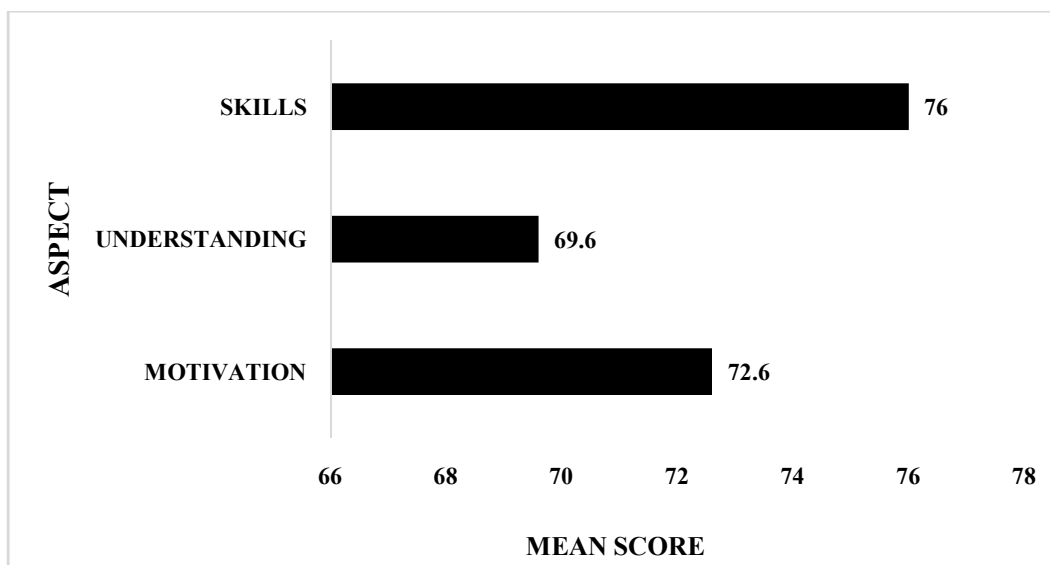
**FIGURE 1.** The Result of Poster Assessment

Based on Fig 1, it could be seen that for the content, design and message delivery aspects have met the criteria very well. This means that the content and learning messages presented in the poster were obvious and easily understood by the students. Furthermore, the use of colors in poster interesting and the size of all elements of the poster was proportional, so the message to be delivered through the poster to be the center of attention and easy to understand. Whereas for the aspect of the picture, got the good criteria. The pictures presented in the poster tend not to be original. Students tend to take the example of the pictures presented on the internet. It was maybe because the students lack the drawing skills. However, the picture presented in the poster are interesting, corresponded to the message delivered and meaningful to deliver the message. This was in accordance with the criteria of a good poster, among others [5]:

1. Simple  
It means do not require complex thinking and strong enough to attract attention
2. Presents one idea and to achieve one main goal  
Each poster only focuses on one idea to be delivered.
3. Colorful  
Posters should have a combination of images and text that used contrasting colors making it easy to understand the ideas delivered and attract people's attention. Images presented should also appropriate with the topics and ideas to be delivered and support the delivery of ideas.
4. Clear writing  
The text presented in the poster should be written clearly so that the message to be delivered through the poster can be easily understood.
5. Clear reviews  
The message to be delivered through the poster should be brief, interesting and obvious, so the message delivered in the poster was easy to remember. The language used should also communicative, that was easily understood by others.

Therefore, the poster should express the idea obviously, briefly, communicatively, interestingly, and easy to remember.

The result of student responses to the learning poster session is presented in Fig 2.



**FIGURE 2.** The Results of Student Responses

Based on Fig 2, it could be seen that the results of student responses to the learning poster session on aspects of understanding, skills, and motivation, all included in the good criteria.

Aspects which get the highest score on student responses to learning poster session was skill aspect. Students regarded that learning poster session can improve their memory and creativity. This is in accordance with the excess of learning through posters session that can hone the intelligence of students as they search information about the material without the help of lecturers. In addition, the material can be remembered longer because the process of presenting ideas through the poster. Learning poster session also encourages the courage of students to express their opinions. Learning poster session improved communication skills through interaction between students that leads to better understanding of learning materials [6]. This is because the poster was useful as a) attention-grabbing, b) clues, and c) creative experience [3]. Learning poster session could motivate students to learn, be a clue about the main idea in a learning, and provide experience through creative activities in a learning [7]. The combination of the visual form of words, pictures, colors, and layout in the poster would have an impact on improving students' learning motivation [8]. Learning poster session could be used as a reflection of the students' learning experiences and develop their skills [9].

## CONCLUSION

Learning poster session on instructional technology aimed to enhance student motivation to learn and improve creativity in learning. Student response to learning poster session on instructional technology was good. Students were more motivated to learn, easy to understand the material, and more skilled in developing their abilities in learning.

## REFERENCES

1. B. B. Seels and R. C. Richey, *Instructional Technology: The Definition and Domains of the Field* (Association for Educational Communication and Technology, Washington, DC, 1994).
2. M. L. Silberman, *Active Learning: 101 Cara Belajar Aktif*, (Nuansa Cendekia, Bandung, 2013).
3. S. Anitah, *Media Pembelajaran*, (LPP UNS and UNS Pres, Surakarta, 2008).
4. D. Mardapi, *Teknik Penyusunan Instrumen Tes dan Non-Tes*, (Mitra Cendekia, Yogyakarta, 2008).
5. Musfiqon, *Pengembangan Media dan Sumber Pembelajaran*, (PT Prestasi Pustakarya, Jakarta, 2012).
6. P. A. Huddle, *J. Chem. Educ.* **77**, 1154-1157 (2002).

7. N. Sudjana and A. Rivai, *Media Pengajaran*, (SinarBaruAlgesindo, Bandung, 2010).
8. R. H. A. Aziz and K. Jusoff, *J. Stud. Int. Educ.* **2**, 158-162 (2009).
9. J. McNamara, A. Beatson and I. Larkin, "Using poster presentations as assessment of work integrated learning", *Proceedings of the Australian Collaborative Education Network National Conference* (Curtin University of Technology Perth, 2010).