*URICET-2021*

#118 (1570763138): STEM-Based Interactive Learning Media to Improve Students' Critical Thinking Skills on Number System Materials

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| **Conference** and *track* | | **2021 Universitas Riau International Conference on Education Technology (URICET)** - *UNIVERSITAS RIAU INTERNATIONAL CONFERENCE ON EDUCATION TECHNOLOGY 2021* |

Authors

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| | | |
|---|---|---|
| Title | Only the chairs can edit | *STEM-Based Interactive Learning Media to Improve Students' Critical Thinking Skills on Number System Materials* |
| Abstract | Only the chairs can edit | The goal of the study is to produce STEM-based interactive learning media that can enhance students' critical thinking skills on number system materials. The research method used is the method of development or Research and Development (R&D) with addie design (Analysis, Design, Development, Implementation, Evaluation). The instruments used in the study consisted of expert media validation sheets, materials, critical thinking tests, and student questionnaire sheets to determine students' responses to interactive learning media. To find out the practicality and effectiveness of interactive learning media in improving the ability of critical thinking, a double choice test is grounded. The results show that 1) the results of media and material validation by 2 experts were 86% (very high) and the results of validation of tests of learning results by experts and teachers were 90.67% (very high), 2) interactive learning media can improve students' critical thinking skills which is shown with average pretest results by 54.7%, average post-test by 91.9% and average %N-Gain by 68.48% (height), 3) Student's responses to the use of interactive learning media earned 84% (excellent) grades. |
| Keywords | Only the chairs can edit | Interactive Learning Media; STEM; Critical Thinking |
| Topics | Only the chairs can edit | Science Technology Engineering and Mathematic (STEM); Education Technology; Science and Engineering Research |
| Presenter(s) | | presenter not specified |

| | | |
|---|---|---|
| Session | | *PS Total* from Thu, October 14, 2021 09:00 WIB until 17:00 (57th paper) (6.6 min.) |
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| Review manuscript | Final manuscript |
|---|---|
| | |

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## Reviews

## 3 Uricet reviews

### Review 1

| Novelty and Contribution | Paper Presentation | Recommendation |
|---|---|---|
| Good (3) | Acceptable (3) | Strong Accept (5) |

**Detailed Comments (Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.)**

Check template for writing your title. Improve the quality of the table presentation.

### Review 2

| Novelty and Contribution | Paper Presentation | Recommendation |
|---|---|---|
| Good (3) | Acceptable (3) | Strong Accept (5) |

**Detailed Comments (Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.)**

Please follow the style in the template totally.

### Review 3

| Novelty and Contribution | Paper Presentation | Recommendation |
|---|---|---|
| Good (3) | Acceptable (3) | Strong Accept (5) |

**Detailed Comments (Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.)**

The paper is relevant to the conference theme because it is about STEM. In general, the authors have already followed the IEEE template, but some points need to be addressed.
1. The abstract should be written in capital.
2. The keywords should be ordered from A to Z.
3. Figure one is needed to be fixed it because the boxes are not fully covered by the lines. The size of the figures (Fig 2 to Fig 4) is needed to be propotional. You can stretch it UP.