



MINISTRY EDUCATION, CULTURE,  
RESEARCH AND TECHNOLOGY  
**UNIVERSITAS NEGERI JAKARTA**  
FACULTY MATHEMATICS AND KNOWLEDGE KNOWLEDGE  
NATURAL  
**MAJOR PHYSICS & EDUCATION**  
**PHYSICS**  
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EXAM MIDDLE SEMESTER 118

Learning Physics ICT based

Date and time	Tuesday, 28 March 2023
Time	13.00 - 14.40
Platforms	Epsilon Physics (Uploaded answer)
Nature of the Exam	Open Book
Lecturer	Dr. Firmanul C Wibowo, M.Pd Dr. Hadi Nasbey, M.Sc Handjoko Permana, M.Sc Upik Rahma Fitri, M.Pd

### Instruction Processing:

1. Use paper Striped/plain size A4/Folio as sheet the answer.
2. Write it down Name & NIM As well as the Implementation Date in Corner Top right in every the page
3. Answer written with neat use ballpoint color Black blue
4. **Write repeat** No. Question & description question And followed immediately with the answer
5. Every sheet paper the answer Scanned & made 1 files in .pdf form
6. Naming files answer as following: UTS\_Name\_Class.pdf
7. **Pay attention to the deadline** for uploading answers. If you exceed that deadline, the system willreject in a way direct.
8. Exam is open book, but **examinees No can communicate/work The same** with Who even. Expected his honesty For do question.
9. Can use AIDS count

### QUESTION

1. Explain in a way short in form table with 4 column about difference fourth model development media learning basic ICT: ADDIE (Analyze, design, Develop, Implement, and Evaluate), four D (Define, Design, Develop, and Disseminate) FODEM (Formative development method) And *Dick* & Model Development Carey?
2. Results a number of researcher in year 2022 that needed Media Digital Flipbook or E-Module to Facilitate Multiple Representation Learning Needs or Training Media Skills Century 21. Besides That, obtained data that teachers Physics experience difficulty in develop media learning after period pandemic. Besides That, pupils/students experience difficulty or not enough clear in understand material Which given by the lecturer, the learning media is only PPT or sound only. You as a student try to think creatively and develop learning media innovations that are suitable for used to solve this problem. Create a learning-based system mobile learning or Digital Media Flipbook or E-Module using a platform in your opinion is most compatible (i-spring/canva or others) based on the concept physics for which you have done preliminary studies before. With the following conditions following:
  - a. Media Which developed it can is displayed in form Page
  - b. Each Chapter must consists at least 1 draft physics (KD), 1 Assignment (Assignment), 1 Feedback (Feed Back), 1 Evaluation, 1 concept/material.
  - c. On part evaluation must own question in form Quiz Which consists from 1 Multiple Choice (Multiple Choice) and 1 Essay (Description).
  - d. Multiple choice questions with a minimum of 10 items and essay questions with a minimum of 5 items.

### Notes:

1. Just continue creating the system in the course you have developed. Fill it in learning complete Possible, And as comfortable Possible, as well as make it learning as interesting maybe, so students are interested to learn on the system.
2. If the front view of the media image is not clear, make it as clear as possible, so that it is more clear interesting, And Don't forget For include description from eye studying the on pagefront.

\*\*\* Have a great time doing it \*\*\*

\*\*\* Good luck \*\*\*