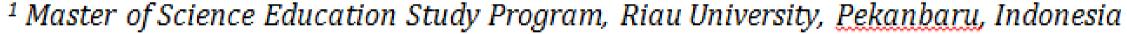


Tasya Anggyani<sup>1\*</sup>, Zulfarina<sup>2</sup>, Nur Islami<sup>3</sup>



<sup>&</sup>lt;sup>2</sup> Master of Science Education Study Program, Riau University, Pekanbaru, Indonesia

<sup>&</sup>lt;sup>3</sup> Master of Science Education Study Program, Riau University, Pekanbaru, Indonesia

### Background

- The demands of learning in the 21st century, namely related to the use of technology as a learning medium to improve learning skills, have become more important
- The application of AI technology is starting to be mobilised to improve the knowledge of teachers and students in facing the industrial era 4.0
- Al can improve a wide range of cognitive skills

# Methods

#### LITERATURE REVIEW

Inclusion and Exclusion Criteria

Inclusion	1) Research articles published in 2020 - 2024,				
Criteria	2) Research Topics on Development, E-Modules, Artificial Intelligence (AI),				
	Environmental Literacy				
	3) Literature from proceedings, theses, and scientific papers				
Exclusion	1) Research articles that cannot be accessed in full				
Criteria	2) Research Topic on Validity				
	3) Not in the field of education				

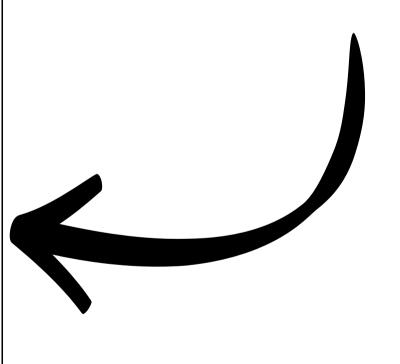


#### Google Scholear Crossef Methods n = 60n=1000Indication Titles remaining after duplicates and irrelevant studies n=1011Screening Articles excluded according to exclusion criteria n = 996Sreening 1. Research articles that cannot be accessed in n=1011 full, n= 89 PRISMA diagram 2. Research topic related to validity, n=421 3. Topics not in education, n= 575 Elgibility Full articles assessed as eligible n = 15Articles excluded with reasons: 1. Not focused on learning activities, n= 6 2. Not focused on teaching materials, n= 5 Included Final number of articles eligible for analysis n=4

No	Autors	Year	Title	Research Results
1.	Yusuf	2024	Artificial Intelligence (AI) in Improving Digital Literacy in Islamic Education Institutions	The purpose of this research is to explain how AI can be used to improve literacy in educational institutions. The study revealed that AI has the role of being an effective tool in improving students' literacy in education.
2.	Dwirianto & Linda	2024	Application of Artificial Intelligence Technology to Improve Teacher Competency in Rusqah Foundation Pekanbaru	The purpose of this research is to strengthen the participants' knowledge about Artifical Intelligence (AI) technology and the stages of Artifical Intelligence (AI) application. The results showed that the impact of AI on human life, one of which is the students, is very much and quite good.
3.	Anggun & Siti	2023	E-Module Learning for Artificial Intelligence Specialisation Course, IIB Darmajaya Informatics Engineering Study Programme Based on Android.	
4.	Wu et al	2024	Analysis of Attitudes about Artificial Intelligence (AI) and Sustainable Intentions to use AI	*

## Result

**Relevant Articles** 



### Discusion



Studies in his previous research revealed that AI has the role of being an effective tool in improving student literacy in the field of education. The impact of AI on human life, one of which is students, is very much and quite good.

The development of learning e-modules with android-based artificial intelligence can make it easier for educators to deliver material and can be used as a forum to facilitate the learning process in accessing material, so that it becomes a teaching and learning facility that is more practical, user friendly

#### Conclusion



Al in the development of teaching materials greatly helps students in understanding concepts in science learning and greatly helps teachers in conveying concepts about science learning



The use of learning media such as e-modules can help the independent learning process, especially in terms of material that requires a certain level of understanding.



The application of AI in learning media can fulfil the demands of learning in the Merdeka curriculum

# Thank's You