



Department of Science  
Education

# RESEARCH PROFILE

2023



# RESEARCHERS AND RESEARCH TOPIC

## Curriculum Research Group



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## Research Title

- 2020** Science Learning Model for Improving Concept Understanding and Collaboration Skills of Junior High School Students
- 2021** Implementation of The 2013 Curriculum of Junior High School Science Courses During The Covid-19 Pandemic in Bantul District
- 2022** Overcoming Learning Loss in Science Using PjBL-Based STEM From Home Learning Model for Secondary School Student



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# RESEARCHERS AND RESEARCH TOPIC

## Evaluation in Natural Science Teaching and Learning Research Group



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## Research Title

**2020** Development of PISA Model Assessment Instrument to Measure Science Literature Capabilities of Junior High School Students

**2021** Development of Assessment as Learning in Basic Physics Virtual Practicum as an Instrument for Cognitive and Skills in Online Learning

**2022** Computer-Based Diagnostic Assessment to Measure Junior High School Students' Readiness to Face AKM and PISA with Automated Feedback



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# RESEARCHERS AND RESEARCH TOPIC

## Integrated Natural Sciences Teaching Learning Strategy Research Group



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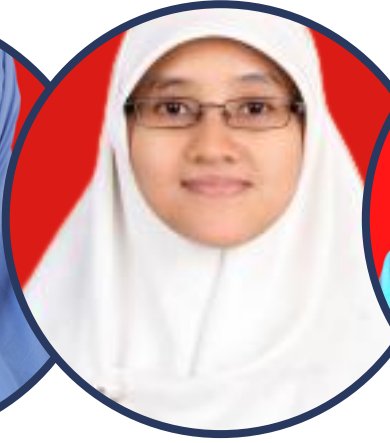
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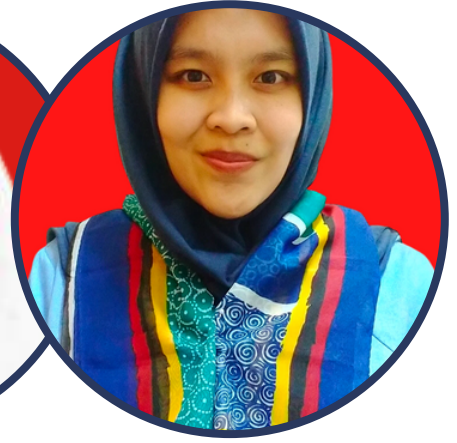
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## Research Title

- 2020** Integration of Local Potential in Science Learning to Grow Science Literacy and Students' Critical Thinking Skill in Realizing the Nature of Science
- 2021** Development of Science Literature for Junior High School Students Through Science Online Learning during the Covid-19 Pandemic
- 2022** Local Potential Experiential Learning to Improve Scientific Literacy and Critical Thinking Skills Towards a Green Behavior Generation



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# RESEARCHERS AND RESEARCH TOPIC

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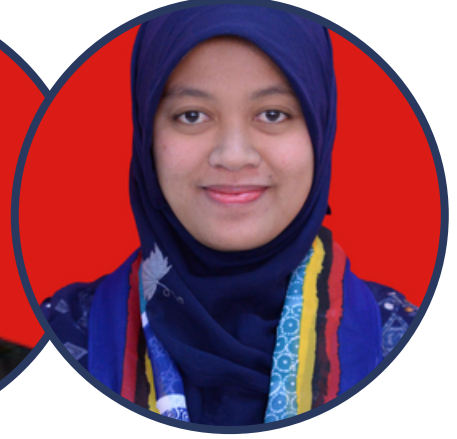
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## Research Title

**2020** Utilization of Google Classroom in Flipped Classroom Learning Design to Empower the Learning Outcomes in Cognitive and Information and Communication Technology (ICT) Literacy

**2021** Interactive Learning Media Using Google Sites on the Android Platform to Support the Home Learning Program

**2022** Development of Gamification-Based E-Learning Using Classcraft to Improve Student Engagement and Learning Outcomes

# RESEARCHERS AND RESEARCH TOPIC

## Teaching Materials Research Group



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## Research Title

- 2020** Development of Technological Pedagogical And Science Knowledge-Contextual (TPASK-C) and It's Effect to TPASK skills and Self Efficacy Teacher Candidate
- 2021** Development of Electronic Teaching Materials Approach to Life Skills-Oriented NOS Loading Inquiry
- 2022** Electronic STEM-Based Ethnoscience Module to Develop Students' Thinking Skills in the VUCA (Volatile, Uncertain, Complex and Ambiguous) Era



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