

## STAFF HANDBOOK

DEPARTMENT OF PHYSICS EDUCATION, FACULTY OF TEACHER  
TRAINING AND EDUCATION, MULAWARMAN UNIVERSITY



# DR. ZULKARNAEN, M.SI

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## RESEARCH INTEREST

- Creativity in Science Learning

## PUBLICATION AND CONFERENCE EXPERIENCE

### Recent Publications and Patents

- **Zulkarnaen**, Suhirman, Hidayat, S., Prayogi, S., Sarnita, F., Widia, Fathurrahmaniah, Fauzi, A., Ramdhani L., Verawati, Ni.N.S.P. (2022). The Effect of Problem Based Learning Model on Students' Creative Thinking Ability. 379-382.
- **Zulkarnaen**, Supardi, Z.A.I. & Jatmiko, B. (2017). Feasibility of creative exploration, creative elaboration, creative modeling, practice scientific creativity, discussion, reflection (C3PDR) teaching model to improve students' scientific creativity of junior high school. Journal of Baltic Science Education, 16(6), 1020-1034.
- **Zulkarnaen**, Supardi, Z.A.I. & Jatmiko, B. (2018). The Role of Knowledge Mastery and Science Process Skills to Increase Scientific Creativity How do They Work? Unnes Science Education Journal USEJ, 7(2), 178-185.
- Julfitri, E., Ewinda, S. & **Zulkarnaen**. (2020). The C3PDR Learning Model to Increase Conceptual Understanding and Creative Thinking Skills of Senior High School Students, Berkala Ilmiah Pendidikan Fisika, 8(3), 170-182.
- Lubis, V.S., **Zulkarnaen** & Junus, M. (2021). Pemetaan Dimensi Proses Kognitif dan Dimensi Pengetahuan Soal-Soal Evaluasi Materi Gelombang Cahaya Dalam Tabel Taksonomi, 2(2), 171-182.

### Conferences

- International conference of Mathematic and Science Education (ICoMSE), 2017, Malang, Indonesia
- National Seminar on Science Education, 2018, Semarang, Indonesia.
- National Seminar on Physics Education, 2020, Banjarmasin, Indonesia.
- International Seminar Education sciences international conference (ESIC), 2020, Samarinda, Indonesia

## INDUSTRY AND COMMUNITY COLLABORATIONS

- Risk Management Training for University, Bogor, 2020
- Focus Group Discussion (FGD) for Curriculum Development of Physics Education, Lambung Mangkurat University, Banjarmasin, Indonesia, 2020
- Focus Group Discussion, Curriculum "Merdeka Belajar, Kampus Merdeka", Lampung University, Lampung, 2020

## CONTACT

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## FORMAL EDUCATION

Bachelor of Physics Education:  
**Indonesia University of Education,  
Indonesia, Graduated 1990**

Master of Physics :  
**Gajah Mada University, Indonesia,  
Graduated 1995**

Doctor of Science Education :  
**Surabaya State University, Indonesia,  
Graduated 2017**