



Dr. Rajibussalim, S.Si., M.Sc., M.InfoTech

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Position	Senior Lecturer at Physics Dept. USK. Subjects Taught: Fundamental of Physics, Algorithms and Programming, Computational Physics, Desain Web and Databases, Network and Computer System, and Disaster and Environment (Undergraduate Programme); STEM Education and Integrated Sains (Postgraduate Program)
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Academic Career

Doctorate Course: PhD in Sciences and STEM education, Faculty of Science and Engineering from Queensland University of Technology, Australia (2017);
Magister Courses: Master of Science (M.Sc) in Computing from The University of Sydney, Australia (2014); Master of Information Technology (M.InfoTech) from Flinders University of South Australia (2004)
Bachelor Course: Bachelor of Science (S.Si) in Physics at Syiah Kuala University (1997)

Employment

Head of Theoretical and Computational Physics Laboratory at Physics Dept. FMIPA USK (2018 - present); Head of Physics Theories and Computation Research Interest Group at Physics Dept. FMIPA USK (Since 2023- present). Indonesian LPDP Scholarship Interviewer since 2022. Assessor of National Accreditation Board (BAN) PDM since 2021. Faculty of Science Liaison Officer for the Office of International Affair (OIA) USK from 2019-2021.

Research and development projects (last 5 years)

1. The Development of Learning Media utilising STEM approach on the subject of Thermodynamics and its application to tackle the issue of global warming/ Funding Source: DRPM DIKTI/ IDR 59,300,000/ 2019
2. Integrating ISLE in Integrated Science Instruction to Improve Science Teacher's Abilities on STEM Education /Funding source from the Program of Enhance Engagement in Research (PEER-USAID USA project)/ USD 241K or IDR 3 Billion/ 2017-2020
3. The impact of Industry-Based Learning on Science, Technology, Engineering and Mathematics students: A case study of Indonesian University/ DIKTI Research Grant for Postgraduate Study/ IDR 50,000,000/ 2016.

Collaborations (last 5 years)

1. Collaboration with Rutgers University in USA for the project of Integrating ISLE in Integrated Science Instruction to Improve Science Teacher's Abilities on STEM Education /Funding source from the Program of Enhance Engagement in Research (PEER-USAID USA project)/ USD 241K or IDR 3 Billion/ 2017-2020

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Selective Publications (last 5 years)

1. Simulasi Pengaruh Radius Channel Garam dan Temperatur Terhadap Distribusi Temperatur Pada Teras Molten Salt Breeder Reactor. *Jurnal Pengembangan Energi Nuklir*, Vol. 23, No. 2, 81-87, 2021.
2. Pengembangan Modul Mitigasi Bencana Alam Berbasis Science, Technology, Engineering, And Mathematic Untuk Pembelajaran Peserta Didik Jenjang SMA, *JUPI (Jurnal IPA dan Pembelajaran IPA)*, Vol. 4 No. (2), p.205-218, 2020.
3. Utilizing LoRa for IoT based mini weather station as STEM learning media to support industrial revolution 4.0, *Journal of Physics: Conference series*, Vol. 1470, SEADRIC 2019.
4. Using the ELVIS II+ platform to create "learning is fun" atmosphere with the ISLE-based STEM approach, *Journal of Physics: Conference series*, Vol.1470, SEADRIC 2019.
5. Assessing the validity and reliability of questionnaires on the implementation of Indonesian curriculum K-13 in STEM education, *Journal of Physics: Conference series*, Vol. 1470, SEADRIC 2019.

Membership

1. Physical Society of Indonesia (PSI) (2020-2025)
2. Member of National Accreditation Board (BAN) for Paud, Dasar, dan Menengah (PDM) since 2021.
3. University committee member for Indonesian International Students Mobility Awards (IISMA) since 2021-2023
4. Head of Division Organisation of Australian Alumnae Association (AAA) 2020-2025

External Link

<https://fsd.usk.ac.id/rajibussalim/>