



## CURRICULUM VITAE

**Prof. Pakhrur Razi, S.Pd., M.Si., Ph.D.**

**Faculty:** Fakultas Matematika dan IPA

**Study Programs:** Fisika

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### Biography

Prof. PAKHRUR RAZI was born in Kerinci, Indonesia, in 1979. He received the B.S. degree in physics science from the Universitas Negeri Padang and the M.S. degree in physics science from the Bandung Institute of Technology, Indonesia, in 2005 and He finished the Ph.D. degree in 2019 at the Center for Environmental Remote Sensing, Department of Information Processing and Computer Sciences, Graduate School Advanced Integration Science, Chiba University, Japan, with a focus on synthetic aperture radar (SAR) processing for disaster monitoring. Since 2006, he has been with the Physics Department, Universitas Negeri Padang, as a Lecturer, where he became an Associate Professor with the Physics Department eight years later. His research interests are SAR and optical remote sensing for disaster, especially PSI and DInSAR, image processing, UAV, GPS-GNSS, electronic instrumentation, and ICT.

### Scopus of the Last 5 Years

Monitoring of tectonic deformation in the seismic gap of the Mentawai Islands using ALOS-1 and ALOS-2. Remote Sensing Applications: Society and Environment, Razi P., 2023

A Low-cost Digital Spectrophotometer for Heavy Metal Absorbance Measurements. Instruments and Experimental Techniques, Yulkifli, 2023

Application of Geoelectrical Resistivity Method for Iron Sand Exploration in Ulakan Tapakis Padang Pariaman. Journal of Physics: Conference Series, Octova A., 2022

3D Modelling of Iron Sand Using Geoelectrical Resistivity Method with Wenner Array in Ulakan Tapakis, Padang Pariaman, West Sumatra. Journal of Physics: Conference Series, Octova A., 2022

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Design of ionosphere sensor for total electron content measurement. Journal of Physics: Conference Series, Sitompul P., 2021

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Estimation of Ideal Configuration and Dimension of Pico Hydropower using Euler-Lagrange Equation and Runge-Kutta Method. Journal of Physics: Conference Series, Aminuddin J., 2020

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Numerical analysis of energy converter for wave energy power generation-pendulum system. International Journal of Renewable Energy Development, Aminuddin J., 2020

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SAR Sentinel-1: Mitigation strategies for earth's surface displacements in Aceh, Indonesia. IOP Conference Series: Earth and Environmental Science, Jefriza, 2020

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The applications of InSAR technique for natural hazard detection in smart society. Journal of Physics: Conference Series, Jefriza, 2020

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Application of time-series sentinel-1a for land deformation in Central Aceh, Indonesia. IOP Conference Series: Earth and Environmental Science, Jefriza, 2020

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#### **Web of Science (WoS) of the Last 5 Years**

LAND DEFORMATION MONITORING USING D-INSAR TECHNIQUE DURING LOMBOK EARTHQUAKE OBSERVED BY SENTINEL-1A/B. INTERNATIONAL JOURNAL OF GEOMATE, Razi, P; Sumantyo, JTS; Widodo, J; Izumi, Y; Perissin, D;, 2020

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#### **Google Scholar of the Last 5 Years**

Sensor-Based Main Mover Muscle Control Device Design for Physical Education Learning. Unima International Conference on Social Sciences and Humanities (UNICSSHÂ ..., 2023, A Komaini, P Razi, J Zakaria, Y Kiram, SG Handayani, D Syafrianto, 2023

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Development of Mobile Learning Module Using Tutor in Physics Learning Class X SMA Negeri 9 Padang Oriented Literacy Skills Industrial Revolution 4.0. Jurnal Ilmu Fisika Dan Pembelajarannya (JIFP) 5 (2), 1-9, 2022, WM Yetri, P Razi, 2022

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Development of Adobe-Flash Based Interactive Multimedia on Viruses for Class X Students at SMAN 2 Sawahlunto. PENBIOS: JURNAL PENDIDIKAN BIOLOGI DAN SAINS 7 (01), 1-7, 2022, A Sukmarindra, A Ardi, 2022

An Empirical Approach to Monitor the Flood-Prone Regions of North India Using Sentinel-1 Images. Annals of Emerging Technologies in Computing (AETiC) 6 (4), 2022, M Siddique, T Ahmed, MS Husain, 2022

DEVELOPMENT OF STUDENT WORKSHEETS BASED ON BLENDED LEARNING MODEL FOR STATION-ROTATIONAL LITERATURE SKILL ORIENTED RI 4.0. , RJ Husna, P Razi, WSD Murtiani, 2022

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PENGEMBANGAN VISIBLE SPECTROPHOTOMETER MENGGUNAKAN DETEKTOR PHOTODIODE ARRAY. , P RAZI, 2022

Validitas Lembar Kegiatan Peserta Didik (LKPD) Berbasis Inkuiri Terbimbing pada Materi Perubahan Lingkungan untuk Melatihkan Keterampilan Proses Peserta Didik Kelas X SMA. Berkala Ilmiah Pendidikan Biologi (BioEdu) 10 (1), 113-125, 2021, FD Novitasari, W Budijastuti, 2021

Kualitas Sistem Informasi Berdasarkan ISO/IEC 25010: Literature Review. Majalah Ilmiah Teknologi Elektro 20 (1), 15-28, 2021, MD Mulyawan, INS Kumara, IBA Swamardika, KO Saputra, 2021

PERBANDINGAN PEMAHAMAN KONSEP PESERTA DIDIK DENGAN MENGGUNAKAN MEDIA PEMBELAJARAN CROCODILE PHYSIC DAN MEDIA PEMBELAJARAN PHET SIMULATION. UIN Raden Intan Lampung, 2021, S FERY, 2021

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Pembelajaran Menggunakan Kaedah Kooperatif "Stay and Stray" Dalam Penulisan Bahasa. Fakultas Pengajian Bahasa Utama, USIM, 2021, CW Ng, MS Amran, 2021

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The applications of InSAR technique for natural hazard detection in smart society. Journal of Physics: Conference Series 1572, 2020, PRHL Jefriza, I M Yusoff<sup>1</sup>, I A Abir, S Syahreza\*, M Rusdi, 2020

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Kelayakan Teoritis Lembar Kegiatan Peserta Didik (LKPD) Berbasis Model Inkuiri Terbimbing Materi Sistem Reproduksi Manusia untuk Melatihkan Kemampuan Berpikir Kritis. Berkala Ilmiah Pendidikan Biologi (BioEdu) 9 (3), 525-534, 2020, Z Wafiroh, W Budijastuti, 2020

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AXI Bus Hardware Accelerator IP for SAR Image Processor Onboard Airborne. Journal of Unmanned System Technology 7 (2), 24-32, 2020, GF Panggabean, JTS Sumantyo, CM Yam, H Kuze, P Razi, F Kurniawan, 2020  
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Comparison Design of the Feeding Method of a 4<sup>th</sup> Order Microstrip Array Antenna. 2019 Photonics & Electromagnetics Research Symposium-Spring (PIERS-Spring) ..., 2020, F Kurniawan, JTS Sumantyo, CE Santosa, PP Sitompul, P Razi, ..., 2020

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Kesiapsiagaan Ganda Sikapi Bencana: Sumbar di Antara Pandemi dan Potensi Megathrust. Harian Umum Haluan Kamis, 30 Oktober 2020, 2020, P Razi, 2020

Waspada Energi Siberut 8 SR. Harian Umum Rakyat Sumbar Kamis, 19 November 2020, 2020, P Razi, 2020

Gempa Bisa Pengaruhi Cekungan Siberut. Harian Umum Haluan Kamis, 6 Agustus 2020, 2020, P Razi, 2020

Sumbar Masuki Puncak Hujan Tahunan. Harian Umum Haluan Minggu, 3 Mei 2020, 2020, P Razi, 2020

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Pengembangan Model Pembelajaran On-line (e-learning) Menggunakan LMS (Learning Management System) untuk Pembelajaran Fisika di Sekolah Menengah. Prosiding, 5, 2020, A Rajak, A Putra, P Razi, 2020

#### Research of the Last 5 Years

Pengembangan Early Warning System Gempa Bumi Dengan Display Smartphone Berbasis Sensor Getaran Tiga Dimensi. Penelitian Terapan Kompetitif Nasional, Leader: Yulkifli, Implementation Year: 2024

Pengembangan Early Warning System Gempa Bumi Dengan Display Smartphone Berbasis Sensor Getaran Tiga Dimensi. Penelitian Terapan Kompetitif Nasional, Leader: Yulkifli, Implementation Year: 2023

Pengembangan E-book Fisika Berbasis Problem Based Learning Berorientasi Higher Order Thinking Skills (hots) Untuk Sma Kelas X. Penelitian Tesis Magister, Leader: Pakhrur Razi, Implementation Year: 2022

Klasifikasi Lithologi Dan Distribusi Aquifer Daerah Teridentifikasi Berpotensi Likuefaksi Di Kota Padang Menggunakan Radar Sar Dan Electrical Resistivity. Penelitian Kerjasama Perguruan Tinggi Luar Negeri, Leader: Pakhrur Razi, Implementation Year: 2022

Pengembangan Alat Analisis Kontraksi Otot Stabilisator Berbasis Sensor Sebagai Evaluasi Fungsi Gerak Motorik Dynamic Neuromuscular Stabilization (dns) Anak Usia Dini. Penelitian Kerjasama Perguruan Tinggi Luar Negeri, Leader: Anton Komaini, Implementation Year: 2022

Pengembangan Early Warning System Gempa Bumi Dengan Display Smartphone Berbasis Sensor Getaran Tiga Dimensi. Penelitian Terapan Kompetitif Nasional, Leader: Yulkifli, Implementation Year: 2022

Analisis Dan Monitoring Daerah Rawan Longsorg Menggunakan Data Drone Dan Ground-based Sar. Penelitian Kerjasama Perguruan Tinggi Luar Negeri, Leader: Yohandri, Implementation Year: 2022

Metode Baru Pemetaan Zona Kerentanan Likuefaksi Kota Padang Menggunakan Satelit Remote Sensing Multi-sensor Dan Parameter. Ptdp-penelitian Kerjasama Perguruan Tinggi Luar Negeri Terapan, Leader: Pakhrur Razi, Implementation Year: 2021

Analisis Dan Monitoring Daerah Rawan Longsorg Menggunakan Data Drone Dan Ground-based Sar. Ptdp-penelitian Kerjasama Perguruan Tinggi Luar Negeri Dasar, Leader: Yohandri, Implementation Year: 2021

Pengembangan Alat Analisis Kontraksi Otot Stabilisator Berbasis Sensor Sebagai Evaluasi Fungsi Gerak Motorik Dynamic Neuromuscular Stabilization (dns) Anak Usia Dini. Ptp-penelitian Kerjasama Perguruan Tinggi Luar Negeri Terapan, Leader: Anton Komaini, Implementation Year: 2021

Strain Accumulation Monitoring And Mapping On Sumatra Megathrust Zone Using Alos-2 For Prediction The Potential Earthquake And Tsunami. Penelitian Terapan, Leader: Pakhrur Razi, Implementation Year: 2021

Teknologi Satelit Synthetic Aperture Radar (sar) Untuk Pendeteksian Dan Monitoring Area Berpotensi Longsor. Penelitian Khusus Pusat Kajian, Leader: Pakhrur Razi, Implementation Year: 2020

Metode Baru Pemetaan Zona Kerentanan Likuefaksi Kota Padang Menggunakan Satelit Remote Sensing Multi-sensor Dan Parameter. Penelitian Kerjasama Pt Luar Negeri Terapan, Leader: Pakhrur Razi, Implementation Year: 2020

### Community Service of the Last 5 Years

Nagari Tangguh Bencana Menggunakan Pendekatan Multi Bahaya Di Seberut Selatan. Program Pengembangan Nagari Binaan (ppnb), Leader: Pakhrur Razi, Implementation Year: 2022

Nagari Tangguh Bencana Menggunakan Pendekatan Multi Bahaya Di Seberut Selatan. Program Pengembangan Nagari Binaan (ppnb), Leader: Pakhrur Razi, Implementation Year: 2021

Pelatihan Pengelolaan Sampah Plastik Daerah Kepulauan Di Siberut Selatan. Program Kemitraan Masyarakat (pkm), Leader: Nofi Yendri Sudiar, Implementation Year: 2021

Pkm Pembelajaran Online Dimasa Covid-19 Bagi Mgmp Fisika Kota Padang Dan Padang Pariaman. Program Kemitraan Masyarakat (pkm), Leader: Pakhrur Razi, Implementation Year: 2020

### IPR's of the Last 5 Years

Peta Vektor Pergeseran Dan Kecepatan Perpindahan Pulau Siberut Menggunakan Data GPS Geodetik Jaringan SuGar Dan IGS. Inventor: Pakhrur Razi, S.Pd, M.Si, Ph.D, Publication Date: 2023-01-04

Analisis Topografi Dan Geologi Daerah Berpotensi Likuifaksi Di Kota Padang Menggunakan Citra Satelit. Inventor: Pakhrur Razi, Ph.D, Publication Date: 2022-10-20

Perubahan Garis Pantai Di Kepulauan Mentawai 2005-2020 Menggunakan Data Landsat 7 Dan 8. Inventor: Pakhrur Razi, S.Pd, M.Si, Ph.D, Publication Date: 2022-08-01

E-Book Fisika Berbasis Problem Based Learning Berorientasi Higher Order Thinking Skills Untuk SMA/MA Kelas X. Inventor: Pakhrur Razi, S.Pd, M.Si, Ph.D, Publication Date: 2022-08-30

Deformasi Pulau Pagai Utara Dan Selatan Menggunakan Data GPS Geodetik. Inventor: Pakhrur Razi, S.Pd, M.Si, Ph.D, Publication Date: 2022-08-12

Radar SAR (Synthetic Aperture Radar) ALOS-2 Peta Tren Deformasi Pulau Pagai Kab. Kepulauan Mentawai. Inventor: Pakhrur Razi, S.Pd, M.Si, Ph.D, Publication Date: 2021-09-29

Peta Tren Deformasi Pulau Pagai Kab. Kepulauan Mentawai Menggunakan Radar SAR (Synthetic Aperture Radar) ALOS-1. Inventor: Pakhrur Razi, S.Pd, M.Si, Ph.D, Publication Date: 2021-09-29

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Peta Water Content Kota Padang Sebagai Salah Satu Parameter Daerah Berpotensi Likuifaksi. Inventor: Pakhrur Razi, Publication Date: 2021-09-02

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Bahan Ajar Fisika Berbasis Kegiatan Laboratorium. Inventor: Drs. Amali Putra, M. Pd, Pakhrur Razi, S. Pd., M. Si., Ph.D, Publication Date: 2020-03-11

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Bahan Ajar Perancangan Pembelajaran Fisika. Inventor: Drs. Amali Putra, M. Pd, Pakhrur Razi, S. Pd., M. Si., Ph.D, Publication Date: 2020-03-11

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#### **Book of the Last 5 Years**

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