



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET DAN TEKNOLOGI  
UNIVERSITAS NEGERI JAKARTA  
**FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM**  
Kampus A, Gedung Hasjim Asj'arie Rawamangun, Jakarta Timur 13220  
Telp/Fax : (021) 4894909, E-mail : [dekanfmipa@unj.ac.id](mailto:dekanfmipa@unj.ac.id), [www.fmipa.unj.ac.id](http://www.fmipa.unj.ac.id)

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## STAFF HANDBOOK

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**Drs. Tri Murdiyanto, M.Si.**  
tmurdiyanto@unj.ac.id

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| <b>Name</b>                 | <b>Drs. Tri Murdiyanto, M.Si.</b>  |
| <b>Position</b>             | Head of Mathematics Education Laboratory   |
| <b>Education Background</b> | <ul style="list-style-type: none"><li>• Master's Degree, Mathematics, Institut Teknologi Bandung, 1991-1994</li><li>• Bachelor's Degree, Mathematics Education, IKIP Yogyakarta, 1984-1990</li></ul> |
| <b>Employment</b>           | Lecturer, Undergraduate Program in Mathematics Education– Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta, 1993-now  |



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| <b>Research and Development project over the last 5 years</b>          | <ul style="list-style-type: none"> <li>• Implementation of Multi-Channel Learning in Elementary Differential Equations Courses in Mathematics Education Study Program, 2018</li> <li>• Perceptions of In-service Teacher Professional Education Participants on the Implementation of the Teacher Professional Education Hybrid Learning Program in the Field of Mathematics Studies, Universitas Negeri Jakarta in 2019, 2019</li> <li>• Evaluation of Students' Perceptions and Attitudes towards the Learning Environment based on Blended Learning in Integral Calculus Course in Mathematics Education Study Program Faculty of Mathematics and Science Universitas Negeri Jakarta, 2020</li> <li>• Development of Blended Learning Based Integral Calculus Learning Media Using Multi Channel Learning, 2021</li> <li>• Development of Mathematics Textbooks for Slow Learners in Elementary Schools, 2022</li> </ul>  |
| <b>Industry Collaboration/ Community Service Over The Last 5 Years</b> | <ul style="list-style-type: none"> <li>• Improving the Quality of Junior High School Mathematics Teachers Through Learning Management System (LMS) Development Training in Bogor District, West Java (Collaboration with MGMP Matematika in Bogor District, 2021-2022)</li> <li>• Improving the Quality of Junior High School Mathematics Teachers Through Training on the Development of Classroom Action Research Instruments in Bogor District, West Java (Collaboration with MGMP Matematika in Bogor District, 2021-2020)</li> <li>• Improving the Quality of Junior High School Mathematics Teachers Through Classroom Action Research Training and Assistance in Depok City, West Java Province (Collaboration with MGMP Matematika in Depok City, 2019)</li> <li>• Improving the Quality of Junior High School/Senior High School/Vocational High School Mathematics Teachers through Classroom Action Research Training and Assistance in Bekasi Regency, West Java Province (Collaboration with MGMP Matematika in Bekasi District, 2018)</li> </ul> |
| <b>Patents and Proprietary Rights</b>                                  | <ul style="list-style-type: none"> <li>• Website-Based "In Math" on Social Arithmetic Material for Grade VIII SMP (03 June 2022)</li> <li>• Training videos/workshops for the Development of a Learning Management System (LMS) for Junior High School Mathematics Teachers in Bogor Regency (03 June 2022)</li> <li>• Mathematics: Straight Line Equations with a contextual approach for class VIII of junior high school (03 June 2022)</li> <li>• Learning Devices With the Title Creation Description of Teaching Materials and LKS Relationships and Functions</li> </ul>  |



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|  | <p>Based on a Realistic Approach Assisted by Geogebra for Class VIII Students (18 March 2022)</p> <ul style="list-style-type: none"><li>• Dilemma-STEM Learning Toolkit for Transformation Material (11 January 2022)</li><li>• Dilemma-STEM Learning Toolkit for Quadratic Functions Material (11 January 2022)</li><li>• MATHPY application (Matematika Pythagoras) (20 May 2021)</li><li>• Kommika application (Komik Matematika) (16 April 2021)</li></ul> |
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**Important  
Publication Over  
The Last 5 Years**

- The Development of Comic Mathematics Media with PMRI Approach on Social Arithmetics for Seventh Grade Junior High School, *Journal of Medives : Journal of Mathematics Education IKIP Veteran Semarang*, 2022  
(DOI: <https://doi.org/10.31331/medivesveteran.v6i2.2141>)
- Pengaruh Pembelajaran Online Berbasis Masalah Terhadap Peningkatan Kemampuan Berpikir Kritis Matematis Ditinjau dari Motivasi Belajar Siswa (*The Effect of Problem-Based Online Learning on Increasing Mathematical Critical Thinking Ability in terms of Student Learning Motivation*), *Jurnal Riset Pembelajaran Matematika Sekolah*, 2022  
(DOI: <https://doi.org/10.21009/jrpms.061.05>)
- Comparison of Mathematical Learning Capabilities Among Students Using the Reciprocal Teaching and Problem Posing Model; *Jurnal Riset Pembelajaran Matematika Sekolah*, 2022  
(DOI: <https://doi.org/10.21009/jrpms.062.01>)
- Pengaruh Model Pembelajaran Kooperatif Tipe Team Assisted Individualization terhadap Kemampuan Representasi Matematis Siswa Kelas VIII SMP Negeri 5 Bogor (*The Influence of the Team Assisted Individualization Cooperative Learning Model on the Mathematical Representation Ability of Class VIII Students of SMP Negeri 5 Bogor*); *Jurnal Riset Pembelajaran Matematika Sekolah*, 2022  
(DOI: <https://doi.org/10.21009/jrpms.062.10>)
- Pengembangan Multimedia Berbasis Android dengan Pendekatan Kontekstual pada Materi Sistem Persamaan Linier Dua Variabel (*Development of Android-Based Multimedia with a Contextual Approach to the Material of Two-Variable Linear Equation Systems*); *Jurnal Riset Pembelajaran Matematika Sekolah*, 2022  
(DOI: <https://doi.org/10.21009/jrpms.062.08>)
- Peningkatan Kualitas Guru Melalui Pelatihan Pengembangan Learning Management System Berbasis Daring Pada MGMP Matematika Kabupaten Bogor (*Improving Teacher Quality Through Online-Based Learning Management System Development Training at MGMP Mathematics Bogor Regency*), *Prosiding Seminar Nasional Pengabdian Kepada Masyarakat*, 2021  
(Link: <http://journal.unj.ac.id/unj/index.php/snppm/article/view/25650>)



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- Pengembangan Media Pembelajaran Interaktif Berupa Aplikasi Komik Matematika dengan Pendekatan Kontekstual pada Materi Bentuk Aljabar Kelas VII SMP (*Development of Interactive Learning Media in the Form of Mathematical Comic Applications with a Contextual Approach to Class VII Junior High School Algebraic Materials*); *Jurnal Riset Pembelajaran Matematika Sekolah*, 2021  
(DOI: <https://doi.org/10.21009/jrpms.052.05>)
- Pengaruh Model Pembelajaran Kooperatif Tipe Teams Games Tournament (TGT) pada Pembelajaran Jarak Jauh terhadap Kemampuan Penalaran Matematis Siswa SMP Negeri 7 Jakarta (*The Influence of the Teams Games Tournament Cooperative Learning Model on Distance Learning on the Mathematical Reasoning Ability of Students of SMP Negeri 7 Jakarta*); *Jurnal Riset Pembelajaran Matematika Sekolah*, 2021  
(DOI: <https://doi.org/10.21009/jrpms.052.07>)
- Evaluasi Persepsi dan Sikap Mahasiswa terhadap Lingkungan Pembelajaran Blended Learning Mata Kuliah Kalkulus Integral Prodi Pendidikan Matematika FMIPA UNJ (*Evaluation of Students' Perceptions and Attitudes towards the Blended Learning Learning Environment for Integral Calculus Course in Mathematics Education Study Program FMIPA UNJ*); *Jurnal Riset Pembelajaran Matematika Sekolah*, 2021  
(DOI: <https://doi.org/10.21009/jrpms.051.03>)
- Pengaruh Model Pembelajaran Creative Problem Solving (CPS) dalam Pembelajaran Jarak Jauh (PJJ) terhadap Kemampuan Berpikir Kritis Matematis Siswa (*The Effect of Creative Problem Solving Learning Model in Distance Learning on Students' Mathematical Critical Thinking Ability*); *Jurnal Riset Pembelajaran Matematika Sekolah*, 2021  
(DOI: <https://doi.org/10.21009/jrpmj.v3i1.20110>)
- Simulasi Penjalaran Gelombang Tsunami Menggunakan Metode Optimal Time Stepping (*Simulation of Tsunami Wave Propagation Using the Optimal Time Stepping Method*); *Jurnal Matematika dan Terapan*, 2021  
(DOI: <https://doi.org/10.21009/jmt.3.1.2>)
- Pengaruh Pendekatan Kontekstual pada Pembelajaran Jarak Jauh Terhadap Kemampuan Komunikasi Matematis Siswa SMA Negeri 1 Depok (*The Effect of Contextual Approach on Distance Learning on the Mathematical Communication Ability*



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*of Students of SMA Negeri 1 Depok*); *Jurnal Riset Pembelajaran Matematika Sekolah*, 2020  
(DOI: <https://doi.org/10.21009/jrpms.042.02> )

- Pengaruh Model Pembelajaran Kooperatif Tipe STAD Berbantuan Media Kahoot! Terhadap Kemampuan Pemahaman Konsep Matematis Siswa SMAN 4 Bekasi (*The Effect of Cooperative Learning Model Type STAD Assisted by Media Kahoot! Against the Ability to Understand Mathematical Concepts of Students of SMAN 4 Bekasi*); *Jurnal Riset Pembelajaran Matematika Sekolah*, 2020  
(Link: <http://journal.unj.ac.id/unj/index.php/jrpmj/article/view/16279>)
- Persepsi Peserta PPG dalam Jabatan terhadap Pelaksanaan Program PPG Hybrid Learning Bidang Studi Matematika Universitas Negeri Jakarta Tahun 2019 (*Perceptions of PPG Participants in Position on the Implementation of the PPG Hybrid Learning Program in the Field of Mathematics Studies, Jakarta State University in 2019*); *Jurnal Riset Pembelajaran Matematika Sekolah*, 2020  
(DOI: <https://doi.org/10.21009/jrpms.041.11> )
- Pengembangan Modul Pembelajaran Matematika dengan Pendekatan Konstruktivisme pada Pokok Bahasan Bentuk Aljabar Kelas VII SMP Terbuka 264 Jakarta Barat (*Development of a Mathematics Learning Module with a Constructivism Approach on the Subject of Algebraic Forms for Class VII SMP Terbuka 264 West Jakarta*); *Jurnal Riset Pembelajaran Matematika Sekolah*, 2018  
(DOI: <https://doi.org/10.21009/jrpms.021.05> )

**;Activities in Specialist Bodies Over The Last 5 Years**

| Organization   | Role   | Period    |
|--|--------|-----------|
| Indonesian Mathematical Association<br><br>(Himpunan Matematika Indonesia -IndoMS) | Member | 2020-2022 |