



**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  
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**STAFF HANDBOOK**

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**Dr. Pinta Deniyanti Sampoerno, M.Si.**

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<b>Name</b>	<b>Dr. Pinta Deniyanti Sampoerno, M.Si.</b>
<b>Position</b>	Lecturer in Mathematics Education, FMIPA UNJ
<b>Educational Background</b>	<ul style="list-style-type: none"><li>• Doctoral Degree, Educational Research and Evaluation, Universitas Negeri Jakarta, 2014</li><li>• Master Degree, Statistics, Institut Pertanian Bogor, 2002.</li><li>• Bachelor Degree, Mathematics Education, IKIP Jakarta, 1990.</li></ul>
<b>Academic Career</b>	<ul style="list-style-type: none"><li>• Lecturer, Master Program in Mathematics Education, Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta, 1991-now</li><li>• Member of the senate of FMIPA in Universitas Negeri Jakarta, 2019-2023</li><li>• Chairman of Commission I for Resources and Innovation, Senate of FMIPA in Universitas Negeri Jakarta, 2019-2023</li><li>• Member of the Senate of Universitas Negeri Jakarta, 2019-2023</li><li>• Member of Commission III for Resources, Senate of Universitas Negeri Jakarta, 2019-2023</li><li>• JRPMS Internal Review Team, 2020-2024</li><li>• Team Leader of the University PAK, Group III, 2022-present</li></ul>



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**Research and  
Development  
Project Over  
the Last 5  
Years**

- Pengembangan Media Pembelajaran Berbasis Android pada Materi Aritmetika Sosial Menggunakan Pendekatan Saintifik Berbantuan *Software Construct 2* di Kelas VII SMP Negeri 137 Jakarta [*Development of Android-Based Learning Media on Social Arithmetic Materials Using a Scientific Approach Assisted by Software Construct 2 in Class VII of SMP Negeri 137 Jakarta*]. Jurnal Riset Pembelajaran Matematika Sekolah, 3 (2), 2019. DOI: <https://doi.org/10.21009/jrpms.032.05>
- Pengembangan Media Pembelajaran Matematika Menggunakan *Software Geogebra* dengan Pendekatan *Scientific* pada Materi Prisma dan Limas di Tingkat SMP [*Development of Mathematics Learning Media Using Geogebra Software with a Scientific Approach to Prism and Limas Material at the Junior High School Level*]. JPPM: Jurnal Penelitian dan Pembelajaran Matematika, 13 (1), 2020. DOI: <http://dx.doi.org/10.30870/jppm.v13i1.7229>
- *The Development of Euclid Geometry's Teaching Materials Based on KKN1 to Improve Students Cognition Amalysis and Deductive Reasoning Abilities. Journal of Medives: Journal of Mathematics Education IKIP Veteran Semarang*, 5 (1), Januari 2021. DOI: <https://doi.org/10.31331/medivesveteran.v5i1.1439>
- Pengembangan *Mobile Learning* Berbasis Android pada Materi Perkalian Antara Dua Matriks Bagi Siswa Kelas X di SMK Satya Bhakti 1 Jakarta [*Development of Android-Based Mobile Learning on Multiplication Material Between Two Matrices for Class X Students at SMK Satya Bhakti 1 Jakarta*]. Jurnal Nasional, Maret 2022. DOI: <https://doi.org/10.29303/griya.v2i1.130>



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**Industry  
Collaboration/  
Community  
Service Over  
the Last 5  
Years**

- Realistic Mathematics Learning Training for Middle School Teachers in Magelang Regency, Central Java Province, April 2017
- Improving the Quality of Learning Mathematics through the Implementation of Realistic Indonesian Mathematics Education in Lesson Study Activities for Junior High School Teachers in Bekasi Regency, July 2018
- Improving the Quality of Learning Mathematics through the Implementation of Realistic Indonesian Mathematics Education in Lesson Study Activities for Junior High School Teachers in Depok, September 2019
- Improving the Quality of Teaching Mathematics Teachers by Applying Realistic Mathematics Education in Lesson Study in Mathematics Learning at SMP Bogor Regency, September 2020
- Competency Improvement Training for Junior High School Mathematics Teachers in Bogor Regency, West Java in Conducting Effective Evaluation of Learning in the PJJ Period, September 2021
- Training to Improve Teachers' Capacity in Conducting Effective Evaluation of Distance Learning at MGMP Mathematics Madrasah Aliyah DKI Jakarta, October 2022
- Computer Program: Interactive CD on Mathematics Learning with Indonesian Realistic Mathematics Approach Subject of Comparative Material for Class VII Middle School, April 1 2018.
- Writing/Dissertation: Effects of Authentic Learning and Assessment Strategies on Students' Mathematical Proving Ability by Controlling Understanding of Prerequisite Concepts, 30 November 2020.
- Computer Programs: Exponential and Logarithmic Learning Module, 17 December 2020.
- Computer Program: Mathematics Induction for Class XI SMA, 3 Feb 2021
- Teaching Aid: Learning Video of the Pythagorean Theorem Based on Banten Culture, 27 July 2021.
- Textbook: Teaching Materials and LKS Relations and Functions Based on a Realistic Approach Assisted by Geogebra for Grade VIII Students, 30 August 2021.
- Video Recording Work: Learning Evaluation Taining Video, October 25, 2021.
- Comics: Pythagorean Theorem, January 25, 2022.



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	<ul style="list-style-type: none"><li>• Book: Homeschool Mathematics Worksheet on Trigonometry Material, 16 February 2022.</li><li>• Module: Training on the Utilization of the Posyandu Information System in the Malaka Jaya Village, Duren Sawit District, East Jakarta, 4 October 2022.</li><li>• Video Recording Work: Training Video to Improve Teacher Capacity in Conducting Effective Evaluation of Distance Learning, 5 October 2022.</li></ul>
<b>Patents and Proprietary Rights</b>	<ul style="list-style-type: none"><li>• Computer Program: Interactive CD on Mathematics Learning with Indonesian Realistic Mathematics Approach Subject of Comparative Material for Class VII Middle School, April 1 2018.</li><li>• Writing/Dissertation: Effects of Authentic Learning and Assessment Strategies on Students' Mathematical Proving Ability by Controlling Understanding of Prerequisite Concepts, 30 November 2020.</li><li>• Computer Programs: Exponential and Logarithmic Learning Module, 17 December 2020.</li><li>• Computer Program: Mathematics Induction for Class XI SMA, 3 Feb 2021</li><li>• Teaching Aid: Learning Video of the Pythagorean Theorem Based on Banten Culture, 27 July 2021.</li><li>• Textbook: Teaching Materials and LKS Relations and Functions Based on a Realistic Approach Assisted by Geogebra for Grade VIII Students, 30 August 2021.</li><li>• Video Recording Work: Learning Evaluation Training Video, October 25, 2021.</li><li>• Comics: Pythagorean Theorem, January 25, 2022.</li><li>• Book: Homeschool Mathematics Worksheet on Trigonometry Material, 16 February 2022.</li><li>• Module: Training on the Utilization of the Posyandu Information System in the Malaka Jaya Village, Duren Sawit District, East Jakarta, 4 October 2022.</li></ul>



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	<ul style="list-style-type: none"><li>• Video Recording Work: Training Video to Improve Teacher Capacity in Conducting Effective Evaluation of Distance Learning, 5 October 2022.</li></ul>
<b>Important Publication Over the Last 5 Years</b>	<ul style="list-style-type: none"><li>• Evaluasi Program Pendidikan Inklusi Pada Sekolah Dasar Negeri Batu Tulis 2 Kota Bogor [<i>Evaluation of the Inclusive Education Program at Batu Tulis 2 Public Elementary School, Bogor City</i>]. Pedagonal: Jurnal Ilmiah Pendidikan, 1 (2), 2017. DOI: 10.33751/pedagog.v1i2.389</li><li>• Evaluation of Implementation Hypothetical Learning Trajectory at The Thesis of Mathematical Education Students FMIPA The State University of Jakarta, Proceeding Science and Mathematics International Conference, ISBN: 978-1-138-61666-, 2018</li><li>• Learning Composite and Decomposite Function with RME Approach for Senior High School Student. Proceeding Science and Mathematics International Conference, 2018</li><li>• Pengaruh Metode Pembelajaran Berbasis Masalah Terhadap Self-Efficacy dan Kemampuan Pemecahan Masalah Matematis Ditinjau dari Kemampuan Awal Matematika Siswa SMA [<i>The Effect of Problem-Based Learning Methods on Self-Efficacy and Mathematical Problem Solving Ability in View of High School Students' Early Mathematics Ability</i>]. JPPM: Jurnal Penelitian dan Pembelajaran Matematika, 11 (1), 2018</li><li>• Pengaruh Model Kooperatif Tipe Think-Pair-Share (TPS) Terhadap Kemampuan Penyelesaian Masalah dan Disposisi Matematis Ditinjau dari Kemampuan Awal Siswa SMP Swasta Islam di Tangsel [<i>The Influence of the Think-Pair-Share (TPS) Cooperative Model on Problem Solving Ability and Mathematical Disposition in View of the Initial Ability of Islamic Private Middle School Students in Tangsel</i>]. Fibonacci: Jurnal Pendidikan Matematika dan Matematika, 4 (2), 2018</li><li>• Pengaruh Problem Based Learning Terhadap Kemampuan Penalaran Matematis dan Kemampuan Pemahaman Konsep Matematika Ditinjau dari Kemampuan Awal Matematika [<i>The Influence of Problem Based Learning on Mathematical Reasoning Ability and Ability to Understand Mathematical Concepts in View of Early Mathematical Ability</i>]. Prosiding Seminar dan Diskusi Pendidikan Dasar, 2018</li></ul>



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- The Effect of Scaffolding Techniques on The Ability of Student's Reasoning Ability and Mathematics Anxiety Reviewed from Gender. UNNES Journal of Mathematics Education, 7 (1), 2018
- Pengembangan Pembelajaran dalam Membangun Pemahaman Relasional Siswa Melalui Pendekatan PMRI Materi Relasi Fungsi [*Development of Learning in Building Students' Relational Understanding Through the PMRI Approach Material Relations Functions*]. Prisma: Jurnal Pendidikan Matematika, 3 (2), 2019
- Pengembangan Pembelajaran dengan Pendekatan PMRI Berbantuan Geogebra untuk Membangun Pemahaman Konsep Transformasi Geometri [*Development of Learning with the Geogebra-Assisted PMRI Approach to Build Conceptual Understanding of Geogebra Transformation*]. Prisma: Jurnal Pendidikan Matematika, 3 (2), 2019
- Performance Assessment to Measure Student's Mathematical Proving Ability Based on the Abductive-Deductive Approach. International Conference on Humanities, Education and Social Sciences (IC-HEDS), 2019
- Analysis of The Mathematical Learning Materials with The Characteristics of Realistic Mathematics Education in The Design Research Pre-Service Teachers' Theses in The Mathematics Education Study Program, FMIPA UNJ (AASEC, Mei 2019)
- Development of Learning Using Indonesian Realistic Mathematics Education Approach to Build Students' Relational Understanding of Derivative (SEADRIC, 2019) IOP Conf. Series: Journal of Physics: Conf. Series 1470 (2020) 012060 - DOI: 10.1088/1742-6596/1470/1/012060
- Probability Learning Trajectory: Students' Emerging Relational Understanding of Probability Through Ratio (SEADRIC, 2019) IOP Conf. Series: Journal of Physics: Conf. Series 1470 (2020) 012067 - DOI: 10.1088/1742-6596/1470/1/012067
- Pengaruh Model Pembelajaran Search Solve Create and Share (SSCS) Terhadap Kemampuan Berpikir Kreatif Matematis dan Self Concept Ditinjau dari Pengetahuan Awal Matematika [*The Influence of the Search Solve Create and Share (SSCS) Learning Model on Mathematical Creative Thinking Ability and Self Concept in View of Prior Knowledge of Mathematics*].



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JPPM: Jurnal Penelitian dan Pembelajaran Matematika, 13 (2), 2020

- Pengaruh Penerapan Model Pembelajaran Means Ends Analysis (MEA) Terhadap Kemampuan Menalar Deduktif Mahasiswa Ditinjau dari Kemampuan Awal Representasi Matematis [*The Effect of Applying the Means Ends Analysis (MEA) Learning Model on Students' Deductive Reasoning Ability in View of the Initial Ability of Mathematical Representations*]. Journal of Medives: Journal of Mathematics Education IKIP Veteran Semarang, 4 (1), 2020. DOI: <https://doi.org/10.31331/medivesveteran.v4i1>
- Upaya Meningkatkan Kemampuan Penalaran Matematis Siswa Melalui Model Pembelajaran Treffinger Pada Materi SPLDV di Kelas VIII-1 SMPN 3 Tangerang Selatan [*Efforts to Improve Students' Mathematical Reasoning Ability Through the Treffinger Learning Model on SPLDV Material in Class VIII-1 SMPN 3 Tangerang Selatan*]. Jurnal Riset Pembelajaran Matematika Sekolah, 4 (1), 2020. DOI: <https://doi.org/10.21009/jrpms.041.05>
- Pengaruh Model Pembelajaran M-APOS Berbantuan Portal Rumah Belajar Terhadap Kemampuan Pemahaman Konsep Matematis Siswa di SMKN 26 Jakarta [*The Effect of the M-APOS Learning Model Assisted by the Learning House Portal on the Ability to Understand Mathematical Concepts of Students at SMKN 26 Jakarta*]. Jurnal Riset Pembelajaran Matematika Sekolah, 4 (1), 2020. DOI: <https://doi.org/10.21009/jrpms.041.03>
- The Effect of The of Power Two Cooperative Learning Model on Understanding Mathematical Concepts and Mathematical Anxiety in View of Students' Early Mathematics Ability at Pariskian Islamic Middle School, Serang City, National Journal, February 2020
- Habits of Mind Model for Students at Elementary School Teacher Education Study Program in Universitas Negeri Jakarta, (IJAST, International Journal of Advanced Science and Technology, 2020)
- The Implementation of Realistic Mathematics Education Approach in Interactive Learning Media. (SMIC, Science and Mathematics International Conference, Agustus 2020)
- Performance Assessment to Measure Student's Mathematical Proving Ability Based on the Abductive



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Deductive Approach. (Prosiding Seminar Internasional, 11 November 2020)

- Building Relational Understanding Through Hypothetical Learning Trajectory of Probability, Jurnal Nasional Terakreditasi, Februari 2021
- The Effect of the Van Hiele Learning Model and Spatial Intelligence on Students' Mathematical Reasoning Ability at MAN Bekasi, National Journal, March 2021
- The Effect of Brain Based Learning Models on the Mathematical Connection Ability of High School Students Reviewed from Self-Regulated Learning, National Journal, March 2021
- Design of Realistic Mathematics Education Approach to Develop Students High-Order Thinking Skill in Online Learning, Jurnal Nasional, Maret 2021
- Influence of Learning Strategy and Authentic Assesment Toward Students Mathematical Proving Ability by Controlling Prerequisite Concepts Understanding. (SMIC, Science and Mathematics International Conference, Agustus 2020). Prosiding Seminar Internasional, April 2021
- The Development of Interactive Learning Media with Realistic Mathematics Education Approach for Topic Ratio and Proportion. Prosiding Seminar Internasional, April 2021
- Ethnomatematics Study Exploration of Pythagorean Theorem Concepts in Banten Culture. Accredited National Journal, September 2021
- The Effect of Google Classroom Assisted Problem Based Learning Model on Students' Problem Solving Ability. National Journal, October 2021
- Edmodo Media-Assisted Mathematics Learning in an Effort to Improve the Mathematical Problem Solving Ability of Class XI IPS-2 Students of SMAN 2 Tambun Selatan on Limits of Algebraic Functions. National Journal, October 2021
- The Effect of the Google Classroom Assisted CMP Learning Model on the Mathematical Representation Ability of Students of SMPN 227 Jakarta. Accredited National Journal, October 2021
- Literature Study of the Role of Teaching Materials Based on Realistic Mathematics Education in Mathematics Learning for Junior High School Students. Accredited National Journal, December 2021





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	<ul style="list-style-type: none"><li>• Enhancement Mathematical Problem-Solving Ability Through RME Approach in Distance Learning on Material Building a Squares and Triangles in Class VII-2 MTsN 28 Jakarta. Prosiding Seminar Internasional, Desember 2021</li><li>• Giving an Individual Tutoring for 8<sup>th</sup> Grade Student in the Errors of Solving the Problem of Essay Test for Comparative Material in SMPN 232 Jakarta. Jurnal Nasional Terakreditasi, Januari 2022</li><li>• Pengaruh Model Cooperative Integrated Reading and Composition (CIRC) Pada Pembelajaran Daring terhadap Kemampuan Komunikasi Matematis Siswa Ditinjau dari Kemampuan Awal Matematika Siswa [<i>The Influence of the Cooperative Integrated Reading and Composition (CIRC) Model on Online Learning on Students' Mathematical Communication Ability in View of Students' Early Mathematics Ability</i>]. Jurnal Nasional Terakreditasi, Juli 2022. DOI: <a href="https://dx.doi.org/10.30829/tar.v29i1.1267">https://dx.doi.org/10.30829/tar.v29i1.1267</a></li></ul>									
<b>Activities in Specialist Bodies Over the Last 5 Years</b>	<table border="1"><thead><tr><th>Organization</th><th>Role</th><th>Period</th></tr></thead><tbody><tr><td><i>Indonesian Mathematics Educator Society (I-MES)</i></td><td>Member</td><td>2020-2022</td></tr><tr><td>Himpunan Evaluasi Pendidikan Indonesia (HEPI) [<i>Indonesian Education Evaluation Association</i>]</td><td>Treasurer</td><td>2020-2022</td></tr></tbody></table>	Organization	Role	Period	<i>Indonesian Mathematics Educator Society (I-MES)</i>	Member	2020-2022	Himpunan Evaluasi Pendidikan Indonesia (HEPI) [ <i>Indonesian Education Evaluation Association</i> ]	Treasurer	2020-2022
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<i>Indonesian Mathematics Educator Society (I-MES)</i>	Member	2020-2022								
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