



**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET DAN TEKNOLOGI
UNIVERSITAS NEGERI JAKARTA
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM**
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STAFF HANDBOOK

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Education Background	<ul style="list-style-type: none">• Doctoral Degree, Educational Technology, Universitas Negeri Jakarta, 2010 – 2016.• Master's Degree, Mathematics, Institut Teknologi Bandung, 1990 – 1993.• Bachelor's Degree, Mathematics Education, IKIP Jakarta, 1983-1988
Employment	<ul style="list-style-type: none">• Lecturer, Undergraduate Program in Mathematics and Mathematics Education.• Lecturer, Graduate Program in Mathematics Education.• Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta, 1988 – now.
Research and Development project over the last 5 years	<ul style="list-style-type: none">• Implementation of Flipped Classroom in Constructivist-Based Blended Learning to Improve Problem Solving Ability, 2022.• Exploring Pre-service Teachers Mathematics Knowledge for Teaching (MKT): The Case of Reasoning and Proof, 2022.• Opportunity To Learn Problem Solving In Indonesian Secondary School Mathematics Curriculum Resources, 2021.• Flipped Classroom Online Learning Design Assisted by Electronic Media Videos and Worksheets to Improve Higher Order Thinking Skills, 2021.



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	<ul style="list-style-type: none"> • • Exploration of Meta-Representational Competence in Mathematical Modeling Processes, 2020. • Development of an Instrument for Measuring High Order Thinking Skills Based on Contextual High School Students in Trigonometry Material, 2020. • Effects of Using Geogebra on Integral Calculus Learning for First Grade Students of Mathematics Education Study Program, State University of Jakarta State University, 2018
Industry Collaboration/ Community Service Over The Last 5 Years	<ul style="list-style-type: none"> • Implementation of Learning with the Constructivism Strategy for Madrasah Aliyah DKI Jakarta Teachers, 2022. • Improving the Quality of Junior High School Mathematics Teachers through Learning Management System (Lms) Development Training in Bogor Regency, West Java, 2022. • Training on Increasing the Effectiveness of Online Learning for MGMP MA DKI Jakarta Teachers Through the Flipped Classroom Approach Using Google Classroom and Google Meet, 2021 • Improving the Quality of Middle School Mathematics Teachers Through Learning Management System (LMS) Development Training in Distance Learning in Bogor Regency, West Java, 2021. • Improving the Quality of Middle School Mathematics Teachers through Training on the Development of Classroom Action Research Instruments in Bogor Regency, West Java, 2020. • Gegogebra Assisted Transformation Geometry Learning Training for High School Teachers in Bogor District, West Java Province, 2020. • Improving the Quality of Junior High School Mathematics Teachers through Classroom Action Research Training and Assistance in Depok City, West Java Province, 2019.
Patents and Proprietary Rights	<ul style="list-style-type: none"> • Video training/workshop for developing a Learning Management System (LMS) for Middle School Mathematics Teachers in Bogor Regency, 2022. • Mathematics Module with a Contextual Approach to Linear Program Material, 2022. • STEM-Based Speed, Distance and Time Teaching Abilities to Improve Critical Thinking Skills of Elementary School Students, 2022. • Homeschool Mathematics Worksheet on Trigonometry, 2022. • Mathematics Module with a Contextual Approach to Linear Program Material, 2022.



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	<ul style="list-style-type: none"> • Mathematics Teaching Materials Using Geogebra 6.0, 2022. • HOTS-Based Digital LKPD on Three-Dimensional Material for Class XII High School Students, 2021. • Textbook of Integral Mathematics (Contextual Approach) Class XII of Business and Management Vocational School, 2021. • Learning Videos of PLSV & PtLSV, 2021. • Learning Video of Banten Culture-Based Pythagorean Theorem, 2021. • Blended Learning Implementation Instrument (A Practical Guide), 2021. • MathClass, 2021. • Module Development of the HOT-Based Technological Pedagogical Content Knowledge (TPACK) Self Assessment Instrument for Prospective Mathematics Teachers, 2021. • Integral Learning Media, 2019. 						
Important Publication Over The Last 5 Years	<ul style="list-style-type: none"> • Characteristics of problems for developing higher-order thinking skills in mathematics, <i>Journal of Physics: Conference Series</i>, 2021, 1882(1), 012074, 2021, 1882(1), 012074 • Exploring mathematics teachers perspectives on the effectiveness of blended learning for professional development program, <i>AIP Conference Proceedings</i>, 2021, 2331, 020008. • An example and experience of a mathematical modelling activity: The hip roof problem, <i>Journal of Physics: Conference Series</i>, 2021, 1747(1), 012013. • Problem-based and thinking talk write learning model, mathematical reasoning, and transformation geometry, <i>Journal of Physics: Conference Series</i>, 2020, 1663(1), 012047 • Pengaruh model brain based learning terhadap kemampuan komunikasi matematis siswa ditinjau dari kreativitas [<i>The effect of the brain based learning model on students' mathematical communication skills in terms of creativity</i>], <i>Premiere Educandum: Jurnal Pendidikan Dasar Dan Pembelajaran</i> 8 (2), 127-139, 2018. • The effect of the realistic mathematics education (RME) approach and the initial ability of students on the ability of student mathematical connection, <i>International Journal for Educational and Vocational Studies</i> 1 (3), 153-156, 2019. 						
Activities in Specialist Bodies Over The Last 5 Years	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Organization</th> <th style="width: 33%;">Role</th> <th style="width: 33%;">Period</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Organization	Role	Period			
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	Himpunan Matematika Indonesia <i>[Indonesian Mathematical Association]</i> (IndoMS)	Member	2020 – 2022
	Indonesian Mathematics Educator Society (I- MES)	Member	2020 – 2022
	Perkumpulan Pascasarjana Pendidikan Matematika Indonesia <i>[Indonesian Mathematical Education Postgraduate Association]</i> (PPPMI)	Member	2021 – 2022