



**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET DAN TEKNOLOGI  
UNIVERSITAS NEGERI JAKARTA  
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM**  
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<b>Name</b>	<b>Tian Abdul Aziz, Ph.D.</b>
<b>Position</b>	Lecturer in Graduate and Undergraduated Program in Mathematics Education–Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta, 2019-now
<b>Educational Background</b>	<ul style="list-style-type: none"><li>• Bachelor's Degree, Mathematics Education, Universitas Pendidikan Indonesia, 2004 – 2008</li><li>• Doctor of Philosophy, Secondary Mathematics and Science Education, Middle East Technical University, 2011-2016</li></ul>
<b>Academic Career</b>	<ul style="list-style-type: none"><li>• Lecturer in Graduate and Undergraduated Program in Mathematics Education–Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta, 2019-now</li><li>• Kepala Laboratorium Workshop Pendidikan Matematika 2021-now</li></ul>
<b>Research and Development project over the last 5 years</b>	<ul style="list-style-type: none"><li>• 2018: Semiotic Exploration and Discursive Genesis in Understanding the Concept of Absolute Value</li><li>• 2020: Eksplorasi Meta - Representational Competence in Mathematical Modeling Process</li><li>• 2021: Opportunity to Learn Problem Solving in Indonesian Secondary School Mathematics Curriculum Resources</li><li>• 2022: Exploring Pre-service Teachers Mathematics Knowledge for Teaching (MKT): The Case of Reasoning and Proof</li></ul>
<b>Industry Collaboration/ Community Service Over The Last 5 Years</b>	<ul style="list-style-type: none"><li>• 2018: Workshop on the Use of Mathematical Software for Learning for Mathematics Teachers of SMP/MTS/SMA/MA/SMK Muhammadiyah throughout Depok City</li></ul>



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	<ul style="list-style-type: none"> <li>• 2019: Workshop on Competency Development for Middle School/Mts Mathematics Teachers in Depok City, West Java Province</li> <li>• 2020: Workshop on Increasing the Validity of Advances in the Development of Mathematics Problems for Junior High School Mathematics Teachers in Bogor Regency, West Java Province</li> <li>• 2021: Learning Media Training for Middle School Mathematics Teachers in Bogor Regency, West Java Province</li> <li>• 2022: Training on Using FX Draw in Learning for MA Mathematics Teachers in DKI Jakarta Province</li> </ul>
<b>Patents and Intellectual Property Right (IPR)</b>	<ul style="list-style-type: none"> <li>• A Mathematical Modelling Activity</li> <li>• Meeting 1, Get to Know Algebraic Forms</li> <li>• Meeting 2, Addition and Subtraction of Algebraic Forms</li> <li>• Meeting 3, Algebraic Multiplication Operations</li> <li>• Meeting 4, Algebraic Form Distribution Operations</li> <li>• Mathematics Textbook for Statistics Class XI SMK/MAK Department of Business and Management</li> <li>• Mathematics Teaching Materials Using Geogebra 6.0</li> <li>• Guidebook for Using Learning Style Instruments in Online Learning</li> </ul>
<b>Important Publication Over the Last 5 Years</b>	<ul style="list-style-type: none"> <li>• Aziz, T. A. (2021). Eksplorasi Justifikasi dan Rasionalisasi Mahasiswa dalam Konsep Teori Graf [<i>Student Exploration of Justification and Rationalization in Graph Theory Concepts</i>]. <i>Jurnal Pendidikan Matematika Raflesia</i>, 6(2), 40–54. <a href="https://doi.org/10.33369/jpmr.v6i2.16526">https://doi.org/10.33369/jpmr.v6i2.16526</a></li> <li>• Aziz, T. A., &amp; Kharis, S. A. A. (2021, May). Characteristics of problems for developing higher-order thinking skills in mathematics. In <i>Journal of Physics: Conference Series</i> (Vol. 1882, No. 1, p. 012074). IOP Publishing</li> <li>• Aziz, T. A. (2021, February). An example and experience of a mathematical modelling activity: the hip roof problem. In <i>Journal of Physics: Conference Series</i> (Vol. 1747, No. 1, p. 012013). IOP Publishing.</li> <li>• Purnomo, Y. W., Arlini, R., Nuriadin, I., &amp; Aziz, T. A. (2021). Learning trajectory based on fractional sub-constructs: Using fractions as quotients to introduce fractions. <i>Editorial from Mónica Arnal Palacián, Didactics Editor of MTRJ</i>, 183.</li> <li>• Purnomo, Y. W., Pramudiani, P., Aziz, T. A., Kaur, A., Ismail, S. N., &amp; Nuriadin, I. (2020). Indonesian teachers' beliefs on the gap between educational research and practice. <i>Australian Journal of Teacher Education (Online)</i>, 45(12), 24-42.</li> </ul>



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	<ul style="list-style-type: none"> <li>• Aziz, T. A., &amp; Kurniasih, M. D. (2019). External Representation Flexibility of Domain and Range of Function. <i>Journal on Mathematics Education</i>, 10(1), 143-156.</li> <li>• Aziz, T. A., Supiat, S., &amp; Soenarto, Y. (2019). PRE-Service Secondary Mathematics Teachers' understanding of Absolute Value. <i>Jurnal Cakrawala Pendidikan</i>, 38(1), 203-214.</li> <li>• Aziz, T. A., Pramudiani, P., &amp; Purnomo, Y. W. (2018). Differences between quadratic equations and functions: Indonesian pre-service secondary mathematics teachers' views. In <i>Journal of Physics: Conference Series</i> (Vol. 948, No. 1, p. 012043). IOP Publishing.</li> </ul>												
<b>Activities in Specialist Bodies Over the Last 5 Years</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #c8e6c9;"> <th style="text-align: center;">Organization</th> <th style="text-align: center;">Role</th> <th style="text-align: center;">Period</th> </tr> </thead> <tbody> <tr> <td>Indonesian Mathematics Educators Society</td> <td style="text-align: center;">Member</td> <td style="text-align: center;">2017-2022</td> </tr> <tr> <td>Indonesian Mathematics Society</td> <td style="text-align: center;">Member</td> <td style="text-align: center;">2020 - 2022</td> </tr> <tr> <td>Teaching &amp; Education Research Association (TERA)</td> <td style="text-align: center;">Member</td> <td style="text-align: center;">2019 - 2023</td> </tr> </tbody> </table>	Organization	Role	Period	Indonesian Mathematics Educators Society	Member	2017-2022	Indonesian Mathematics Society	Member	2020 - 2022	Teaching & Education Research Association (TERA)	Member	2019 - 2023
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