



**UNIVERSITAS PENDIDIKAN INDONESIA**  
**FACULTY OF MATHEMATICS AND NATURAL SCIENCES EDUCATION**  
**DEPARTMENT OF PHYSICS EDUCATION**

Jalan Dr. Setiabudhi 229 Bandung 40154  
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**STAFF HANDBOOK**

Name	Taufik Ramlan Ramalis				
Position	Physics Education				
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>		
		<b>Assistant Professor, Department of Physics Education of Universitas Pendidikan Indonesia</b>	<b>2001-Now</b>		
	<i>Habilitation [German post-doctoral qualification] (Subject)</i>	<i>Institution</i>	<i>Year</i>		
		-	-		
	<i>Doctorate (Subject)</i>	<i>Institution</i>	<i>Year</i>		
		<b>Universitas Pendidikan Indonesia</b>	<b>2012-2016</b>		
	<i>Master degree (subject)</i>	<i>Institution</i>	<i>Year</i>		
		<b>Institut Teknologi Bandung</b>	<b>1990-1992</b>		
	<i>Undergraduate degree (subject)</i>	<i>Institution</i>	<i>Year</i>		
		<b>Universitas Pendidikan Indonesia</b>	<b>1980-1985</b>		
Employment	<i>Position</i>	<i>Employer</i>	<i>Year</i>		
	<b>Lecturer</b>	<b>Dean</b>	<b>1986-Now</b>		
Research and development projects over the last 5 years	<i>Name of project or research focus</i>				
	<i>Period and any other information</i>				
	<i>Partners, if applicable</i>				
	<i>Amount of financing</i>				
				<b>Financing</b>	
	<b>No</b>	<b>Year</b>	<b>Title of Research Project</b>	<b>Sources</b>	<b>Amount (Million Rp)</b>
	1	2018	Pengembangan Tes Fisika Sekolah Berorientasi Berpikir Tingkat Tinggi Melalui Analisis Item Respon Teori	Universitas Pendidikan Indonesia	40
	2	2017	Karakteristik pengembangan Tes Berpikir Tingkat Tinggi melalui Analisis Item Respon Teori	Universitas Pendidikan Indonesia	35
	3	2016	Penyusunan Bahan Ajar IPBA Terintegrasi yang Mengakomodasi Kecerdasan Majemuk Berorientasi Penguasaan Konsep dan Penanaman Nilai Karakter Siswa SMP	Kemendikbud Ristek Dikti	60
Industry collaborations over the last 5 years	<i>Project title</i>				
	<i>Partners</i>				
Patents and proprietary rights	<b>No.</b>	<b>Title</b>		<b>Type</b>	<b>Year</b>
	1	E-Book Fisika Hukum Gravitasi Newton Berbasis Discovery Learning		Proprietary rights	2020
	2	Tes Diagnostik Berformat Four Tier dalam Multi Representasi pada materi Hukum Newton		Proprietary rights	2020
	3	Smart Teaching Materials Oriented Multiple Intelligences On Global Warming (STM2I-GLOW)		Proprietary rights	2020



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	4	Bahan Ajar Web Materi Gerak Dan Posisi Benda Langit, Berorientasi Kecerdasan Majemuk Dan Aktualisasi Nilai-nilai Karakter Untuk Siswa SMP	Proprietary rights	2019																								
	5	Bahan Ajar Web Materi Pelindung Bumi Berorientasi Kecerdasan Majemuk Dan Penanaman Karakter Untuk Siswa SMP	Proprietary rights	2019																								
	6	Modul Metode Arima dan Sarima pada Minitab dan Ms Excel	Proprietary rights	2019																								
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (give total number): 8 Publication (Scopus Indexed)</i></p> <p><i>Author(s)</i></p> <p><i>Title</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #4a7ebb; color: white;"> <th style="width: 5%;">No</th> <th style="width: 65%;">Publication</th> <th style="width: 30%;">Author (s)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Assessing graph interpretation of high school students: an examination by students' gender Journal of Physics: Conference Series 1806 (2021) 012011 IOP Publishing doi:10.1088/1742-6596/1806/1/012011</td> <td>VR Riani, LH Sa'diyah, MG Purwanto, <b>TR Ramalis</b>, A Samsudin</td> </tr> <tr> <td>2</td> <td>Measuring level of reflective thinking of physics pre-service teachers using effective essay argumentation <i>Reflective Practice</i>, 2020, 21.4: 565-586.</td> <td>Rosmiati Rosmiati, Liliyasi Liliyasi, Bayong Tjasyono, <b>Taufik Ramlan Ramalis</b>, Muhammad Satriawan</td> </tr> <tr> <td>3</td> <td>Using rasch analysis to develop multi-representation of tier instrument on newton's law (motion) <i>International Journal of Psychosocial Rehabilitation</i>, 2020, 24.6: 8542-8556</td> <td>A Samsudin, NJ Fratiwi, <b>TR Ramalis</b>, AH Aminudin, B Costu, M Nurtanto</td> </tr> <tr> <td>4</td> <td>Implementing Analytic Mechanics Learning Based on Multiple Representations on GeoGebra Software: In Forwardness to Face the Industrial Revolution 4.0 (Mr-Geo. 4ir). <i>Talent Development &amp; Excellence</i>, 2020, 12.1.</td> <td>Tri Isti Hartini, Agus Setiawan, <b>Taufik Ramlan Ramalis</b></td> </tr> <tr> <td>5</td> <td>Changing Students' Conceptions of Newton's Second Law through Express-Refute-Investigate-Clarify (ERIC) Text Universal Journal of Educational Research, 2020, 8.6: 2701-2709</td> <td>Nuzulira Janeusse Fratiwi, Achmad Samsudin, <b>Taufik Ramlan Ramalis</b>, Bayram Costu</td> </tr> <tr> <td>6</td> <td>Developing MeMoRI on Newton's Laws: For Identifying Students' Mental Models <i>European Journal of Educational Research</i>, 2020, 9.2: 699-708</td> <td>Nuzulira Janeusse Fratiwi, Achmad Samsudin, <b>Taufik Ramlan Ramalis</b>, Antomi Saregar, Rahma Diani</td> </tr> <tr> <td>7</td> <td>Analyzing Students' Problem Solving Abilities of Direct Current Electricity in STEM-Based Learning. <i>Journal of Science Learning</i>, 2019, 2.3: 85-91.</td> <td>Rany Apriyani, <b>Taufik Ramlan Ramalis</b>, Irma Rahma Suwarma</td> </tr> </tbody> </table>				No	Publication	Author (s)	1	Assessing graph interpretation of high school students: an examination by students' gender Journal of Physics: Conference Series 1806 (2021) 012011 IOP Publishing doi:10.1088/1742-6596/1806/1/012011	VR Riani, LH Sa'diyah, MG Purwanto, <b>TR Ramalis</b> , A Samsudin	2	Measuring level of reflective thinking of physics pre-service teachers using effective essay argumentation <i>Reflective Practice</i> , 2020, 21.4: 565-586.	Rosmiati Rosmiati, Liliyasi Liliyasi, Bayong Tjasyono, <b>Taufik Ramlan Ramalis</b> , Muhammad Satriawan	3	Using rasch analysis to develop multi-representation of tier instrument on newton's law (motion) <i>International Journal of Psychosocial Rehabilitation</i> , 2020, 24.6: 8542-8556	A Samsudin, NJ Fratiwi, <b>TR Ramalis</b> , AH Aminudin, B Costu, M Nurtanto	4	Implementing Analytic Mechanics Learning Based on Multiple Representations on GeoGebra Software: In Forwardness to Face the Industrial Revolution 4.0 (Mr-Geo. 4ir). <i>Talent Development &amp; Excellence</i> , 2020, 12.1.	Tri Isti Hartini, Agus Setiawan, <b>Taufik Ramlan Ramalis</b>	5	Changing Students' Conceptions of Newton's Second Law through Express-Refute-Investigate-Clarify (ERIC) Text Universal Journal of Educational Research, 2020, 8.6: 2701-2709	Nuzulira Janeusse Fratiwi, Achmad Samsudin, <b>Taufik Ramlan Ramalis</b> , Bayram Costu	6	Developing MeMoRI on Newton's Laws: For Identifying Students' Mental Models <i>European Journal of Educational Research</i> , 2020, 9.2: 699-708	Nuzulira Janeusse Fratiwi, Achmad Samsudin, <b>Taufik Ramlan Ramalis</b> , Antomi Saregar, Rahma Diani	7	Analyzing Students' Problem Solving Abilities of Direct Current Electricity in STEM-Based Learning. <i>Journal of Science Learning</i> , 2019, 2.3: 85-91.	Rany Apriyani, <b>Taufik Ramlan Ramalis</b> , Irma Rahma Suwarma
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	8	Analyzing higher education students' understanding of earthquake-resistant buildings on stem learning <i>Journal of Engineering Science and Technology</i> , 2019, 14: 47-57.	Didit Ardianto, Anna Permanasari, Harry Firman, <b>Taufik Ramlan Ramalis</b>
Activities in specialist bodies over the last 5 years	<b>Organization</b>		
	<b>Role</b>		
	<b>Periods</b>		
	Physical Society of Indonesia	Member	2015 - Now
	* <i>Membership without a specific role need not be mentioned</i>		