



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

Jalan Dr. Setiabudhi 229 Bandung 40154
 Tel: (022) 2004548 Fax. (022) 2004548
 Website: fisika.upi.edu, E-mail: fisika@upi.edu

STAFF HANDBOOK

Name	Muslim			
Position	Physics Education			
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>	
		Associate Professor, Department of Physics Education of Universitas Pendidikan Indonesia	2006-Now	
	<i>Habilitation [German post-doctoral qualification] (Subject)</i>	<i>Institution</i>	<i>Year</i>	
		-	-	
	<i>Doctorate (Subject)</i>	<i>Institution</i>	<i>Year</i>	
	Universitas Pendidikan Indonesia	2009-2014		
	<i>Master degree (subject)</i>	<i>Institution</i>	<i>Year</i>	
	Universitas Pendidikan Indonesia	2003-2005		
	<i>Undergraduate degree (subject)</i>	<i>Institution</i>	<i>Year</i>	
	Universitas Pendidikan Indonesia	1984-1989		
Employment	<i>Position</i>	<i>Employer</i>	<i>Year</i>	
	Lecturer	Dean	1990-Now	
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>			
				Financing
	No	Year	Title of Research Project	Sources
1	2015	Development of Reasoning-Based High School National Exam Questions	UPI Graduate Team Grant	100,000,000
2	2015	Reasoning Argumentation Brainstorming Learning Model to Improve Scientific Reasoning Ability and Writing Argumentative Physics Materials for Students in School Physics Lectures	UTU UPI Learning Innovation Grant	40,000,000
3	2016	Development of Reasoning Test Instruments with Framework Trends in International Mathematical and Science Study (TIMMS) and Profile of Students' Reasoning Ability Achievement in High School Physics Materials	UTU UPI Competency Strengthening Grant	30,000,000
4	2017	Problem-Based Learning Model with Science Writing Heuristic Approach to Improve 21st Century Skills of Junior High School Students in Science Learning	UPI Lab School Lecturer and Teacher Collaborative Research Grant	30,000,000



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	5	2021	Development of Three-Dimensional Assessment Prototype of Physics Learning Based on Three-Dimensional Learning Framework	UPI Funding for Fiscal Year 2021	40,000,000
Industry collaborations over the last 5 years	<i>Project title</i> <i>Partners</i>				
Patents and proprietary rights	No.	Title		Type	Year
	1	Practicum Using Virtual Simulation of Pascal's Law Materials to Reduce the Quantity of High School Students' Misconceptions		Intellectual Property Rights	2020
	2	Four Tier Diagnostic Test Instruments to Detect Misconceptions on Fluid Topics		Intellectual Property Rights	2020
Important publications over the last 5 years	<i>Selected recent publications from a total of approx. (give total number): 33 Publication (Scopus Indexed)</i> <i>Author(s)</i> <i>Title</i> <i>Any other information</i> <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>				
	No	Publication		Author (s)	
	1	Using Integrated Type on Science Learning for Improving Junior High School Students' Critical Thinking Skills Jurnal Pendidikan Fisika Indonesia 12 (1) (2016) 54-64. DOI: 10.15294/jpfi.v12i1.5460		Tika Resti Pratiwi, Muslim	
	2	Characteristics of The Ability of Physics Concept in Enrichment Teaching Materials of Natural and Mineral resources (NMRs) Literacy Jurnal Pendidikan IPA Indonesia. JPii 6 (2) (2017) 252-256. DOI: 10.15294/jpii.v6i2.9482		C. Rochman, D. Nasrudin, Muslim , N. Hermita	
	3	Description of Self-efficacy and Initial Cognitive Abilities on the Students' Physics Learning of the Direct Current Electrical Circuits IOP Conf. Series: Materials Science and Engineering 180 (2017) 012041 doi:10.1088/1757-899X/180/1/012041		Zaenudin, J Maknun, Muslim	
	4	Integrated argument-based inquiry with multiple representation approach to promote scientific argumentation skill IOP Conf. Series: Journal of Physics: Conf. Series 1848, 050002 (2017); doi: 10.1063/1.4983958		lin Suminar, Muslim , and Winny Liliawati	
	5	Implementation of 7e learning cycle model using technology based constructivist teaching (TBCT)		Resti Warliani, Muslim , and Wawan Setiawan	



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		approach to improve students' understanding achievement in mechanical wave material IOP Conf. Series: Journal of Physics: Conf. Series 1848, 050005 (2017); doi: 10.1063/1.4983961	
	6	Teaching Science Process Skills by Using the 5-Stage Learning Cycle in Junior High School IOP Conf. Series: Journal of Physics: Conf. Series 895 (2017) 012106 doi :10.1088/1742-6596/895/1/012106	E S Safaah, Muslim and W Liliawati
	7	Development of Reasoning Test Instruments Based on TIMSS Framework for Measuring Reasoning Ability of Senior High School Student on the Physics Concept IOP Conf. Series: Journal of Physics: Conf. Series 812 (2017) 012108 doi:10.1088/1742-6596/812/1/012108	Muslim , A Suhandi and M G Nugraha
	8	A case study of analyzing 11th graders' problem solving ability on heat and temperature topic IOP Conf. Series: Journal of Physics: Conf. Series 1013 (2018) 012042 doi :10.1088/1742-6596/1013/1/012042	D Yulianawati, Muslim , L Hasanah and A Samsudin
	9	Argumentation skill profile using "Toulmin Argumentation Pattern" analysis of high school student at Subang on topic hydrostatic pressure IOP Conf. Series: Journal of Physics: Conf. Series 1013 (2018) 012031 doi :10.1088/1742-6596/1013/1/012031	L Syerliana, Muslim and W Setiawan
	10	K-11 students' creative thinking ability on static fluid: a case study IOP Conf. Series: Journal of Physics: Conf. Series 1013 (2018) 012034 doi :10.1088/1742-6596/1013/1/012034	I U Hanni, Muslim , L Hasanah and A Samsudin
	11	Effectiveness of the use of question-driven levels of inquiry based instruction (QD-LOIBI) assisted visual multimedia supported teaching material on enhancing scientific explanation ability senior high school students IOP Conf. Series: Journal of Physics: Conf. Series 1013 (2018) 012026 doi :10.1088/1742-6596/1013/1/012026	A Suhandi, Muslim , A Samsudin, N Hermita and Supriyatman
	12	Application of experiential learning model using simple physical kit to increase attitude toward physics student senior high school in fluid IOP Conf. Series: Journal of Physics: Conf. Series 1013 (2018) 012032 doi :10.1088/1742-6596/1013/1/012032	A H Johari and Muslim



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13	<p>The implementation of problem based learning model with the science writing heuristic approach to increase mastery of concept and critical thinking skill at junior high school student on simple machine</p> <p>Journal of Physics: Conference Series 1280 (2019) 052074 doi:10.1088/1742-6596/1280/5/052074</p>	Muslim, M I Hakim and R Meidawati
14	<p>Investigating the ability of multiple representations and scientific consistency of high school students on newton's laws</p> <p>Journal of Physics: Conference Series 1280 (2019) 052041 doi:10.1088/1742-6596/1280/5/052041</p>	M Furqon and Muslim
15	<p>Enhancing vocation students physics problem-solving skills through modeling instruction applying on the direct current circuit</p> <p>IOP Conf. Series: Journal of Physics: Conf. Series 1157 (2019) 032048 doi:10.1088/1742-6596/1157/3/032048</p>	D Ropika, A Suhandi and Muslim
16	<p>Genetics in socio scientific issues: measuring rebuttal abilities in scientific argumentation</p> <p>Journal of Physics: Conference Series 1280 (2019) 032002 doi:10.1088/1742-6596/1280/3/032002</p>	Anisa, A Widodo, Riandi and Muslim
17	<p>Analyze of conceptions and misconceptions on pre-service teacher about light</p> <p>Journal of Physics: Conference Series 1280 (2019) 052071 doi:10.1088/1742-6596/1280/5/052071</p>	A S A Wahyuni, N Rustaman, D Rusdiana and Muslim
18	<p>Reconstruction of collaborative problem solving based learning in thermodynamics with the aid of interactive simulation and derivative games</p> <p>IOP Conf. Series: Journal of Physics: Conf. Series 1157 (2019) 032042 doi:10.1088/1742-6596/1157/3/032042</p>	A R Sinensis ¹ , H Firman, I Hamidah and Muslim
19	<p>The Use of Scientific Writing Heuristics (SWH) to Build Rebuttal Abilities in Scientific Argumentation</p> <p>Scientiae Educatia: Jurnal Pendidikan Sains, Vol 8, No 2 (2019)</p>	Anisa, Ari Widodo, Riandi, Muslim
20	<p>K-10 students' conceptual understanding on Newton's laws: current and future directions</p> <p>Journal of Physics: Conference Series 1280 (2019) 052059 IOP Publishing doi:10.1088/1742-6596/1280/5/052059</p>	IM Hermanto, Muslim, A Samsudin, J Maknun
21	<p>Students' critical thinking skills toward analyzing argumentation on heat conductivity concept</p> <p>Journal of Physics: Conf. Series 1157 (2019) 032053 doi:10.1088/1742-6596/1157/3/032053</p>	N Nurjannah, A Setiawan, D Rusdiana and Muslim



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22	Profile of problem solving ability of junior high school students in science Journal of Physics: Conf. Series 1157 (2019) 022041 doi:10.1088/1742-6596/1157/2/022041	T Koswara, Muslim and Y Sanjaya
23	Design and development of model-eliciting activity in energy and electrical power topics Journal of Physics: Conf. Series 1157 (2019) 032047 doi:10.1088/1742-6596/1157/3/032047	Festiana I, H Firman, A Setiawan and Muslim
24	Exploring high school student's argumentation structure through ecology: a case study Journal of Physics: Conf. Series 1157 (2019) 022091 doi:10.1088/1742-6596/1157/2/022091	A Anisa, A Widodo, R Riandi and Muslim
25	Smart edu: smart city in a learning system to build collaborative knowledge on lectures deepening science material Journal of Physics: Conference Series 1521 (2020) 0421181 doi:10.1088/1742-6596/1521/4/0421182	R H Zulkarnaen, W Setiawan, D Rusdiana and Muslim
26	Reflective thinking on thermodynamic learning based collaborative problem solving Journal of Physics: Conference Series 1521 (2020) 022046 doi:10.1088/1742-6596/1521/2/022046	A R Sinensis, H Firman, I Hamidah, and Muslim
27	Technological Pedagogical and Content Knowledge (TPACK) design in learning sound wave to foster students' creativity Journal of Physics: Conference Series 1521 (2020) 042099 doi:10.1088/1742-6596/1521/4/042099	W Septiandari, Riandi, and Muslim
28	Teacher's conception about static fluid Journal of Physics: Conference Series 1521 (2020) 022010 doi:10.1088/1742-6596/1521/2/022010	O Saputra, A Setiawan, D Rusdiana dan Muslim
29	University students' ability in setting own learning goals on heat conductivity concept. Journal of Physics: Conference Series 1521 (2020) 022049 doi:10.1088/1742-6596/1521/2/022049	N Nurjannah, A Setiawan, D Rusdiana, and Muslim
30	Design and development of representational fluency test in physics Journal of Physics: Conference Series 1521 (2020) 022034 doi:10.1088/1742-6596/1521/2/022034	I Festiana, H Firman, A Setiawan and Muslim
31	Analyzing socio scientific issues through algorithm. Journal of Physics: Conf. Series 1469 (2020) 012084 doi:10.1088/1742-6596/1469/1/012084	Anisa, A Widodo, R Riandi and Muslim
32	Profile of students' argumentations ability on the topic of environmental pollution Journal of Physics: Conference Series 1521 (2020) 042109 doi:10.1088/1742-6596/1521/4/042109	S H E Ambarawati, Muslim and Hernani



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	<p>33 Development and Validation of Concept Mastery Physics Test on The Electricity Topics</p> <p>International Journal of Scientific & Technology Research Volume 9, Issue 01, January 2020 ISSN 2277-8616.</p>	<p>Ike Festiana, Harry Firman, Agus Setiawan, Muslim</p>							
<p>Activities in specialist bodies over the last 5 years</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #4a86e8; color: white;"> <th style="width: 60%;">Organization</th> <th style="width: 20%;">Role</th> <th style="width: 20%;">Periods</th> </tr> </thead> <tbody> <tr> <td>Physical Society of Indonesia</td> <td>Member</td> <td>2015 - Now</td> </tr> </tbody> </table> <p style="margin-top: 5px;">* <i>Membership without a specific role need not be mentioned</i></p>			Organization	Role	Periods	Physical Society of Indonesia	Member	2015 - Now
Organization	Role	Periods							
Physical Society of Indonesia	Member	2015 - Now							