



**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  
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**STAFF HANDBOOK**

Name	Parsaoran Siahaan				
Position	Physics Education				
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>		
		<b>Associate Professor, Department of Physics Education of Universitas Pendidikan Indonesia</b>	<b>2015-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>2008-2013</b>			
	<i>Master degree (subject)</i>	<i>Institution</i>	<i>Year</i>		
	<b>Universitas Pendidikan Indonesia</b>	<b>1985-1987</b>			
	<i>Undergraduate degree (subject)</i>	<i>Institution</i>	<i>Year</i>		
	<b>Universitas Pendidikan Indonesia</b>	<b>1977-1981</b>			
Employment	<i>Position</i>	<i>Employer</i>	<i>Year</i>		
	<b>Lecturer</b>	<b>Dean</b>	<b>1980-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>No</b>	<b>Year</b>	<b>Title of Research Project</b>	<b>Financing</b>	
				<b>Sources</b>	
				<b>Amount (Million Rp)</b>	
	1	2020	Program Perkuliahan Fisika Sekolah Menggunakan LMS Supported Smartphone untuk Meningkatkan Digital Literacy Calon Guru Fisika	Universitas Pendidikan Indonesia	54
	2	2020	Pengembangan Model Pembelajaran ICARE dengan Multimedia Based Integrated Instruction dalam Pembelajaran Fisika untuk Membangun Keterampilan Abad 21 Siswa SMA	Kemendikbud Ristek Dikti	108
	3	2020	Pengembangan Multimedia Instructional Game dalam Pembelajaran IP A untuk Membangun Pemahaman dan Awareness Siswa terhadap Bencana Alam Gemoa Bumi	Universitas Pendidikan Indonesia	40



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	4	2020	Pengembangan Dan Implementasi Bahan Ajar Komprehensif Melalui Model Pembelajaran Kooperatif TGT Dengan Strategi Konflik Kognitif Untuk Mereduksi Miskonsepsi Kalor Bagi Siswa-Siswi Di Smp Sekabupaten Lamongan	Kemendikbud Ristek Dikti	130	
	5	2018-2019	Optimasi Pengembangan dan Implementasi MBI2 dalam Pembelajaran Sains melalui CAI untuk Mengembangkan Keterampilan Abad 21 Siswa	Kemendikbud Ristek Dikti	208 (2019) 73 (2018)	
Industry collaborations over the last 5 years	-					
Patents and proprietary rights	No.	Title		Type	Year	
	1	Penggunaan Lkpd Materi Energi Terbaru With ICARE-U Model		Proprietary rights	2020	
	2	Modul Usaha dan Energi		Proprietary rights	2020	
	3	Digital Literacy Test For Pre-service Physics Teachers		Proprietary rights	2020	
	4	Perangkat Pembelajaran Materi Pembiasan Cahaya Untuk Peserta Didik SMP Kelas VIII Dengan Menggunakan Multimedia Based Integrated Instruction (MBI2)		Proprietary rights	2019	
	5	Perangkat Pembelajaran Materi Struktur Bumi Untuk Peserta Didik SMP Kelas VIII Dengan Menggunakan MBI2		Proprietary rights	2018	
	6	Perangkat Pembelajaran Materi Pemantulan Cahaya Untuk Siswa Smp Kelas VIII Dengan Menggunakan Multimedia Based Integrated Instruction (Mbi2)		Proprietary rights	2017	
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (give total number): 6 Publications (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>					
	No	Publication			Author (s)	
	1	Junior high school students' risk perception of earthquakes in Bandung City			A Saepulloh, P Siahaan, A Widodo and E Suhendi	



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		Journal of Physics: Conference Series 1882 (2021) 012004 IOP Publishing doi:10.1088/1742-6596/1882/1/012004	
	2	Reducing the students' misconceptions on the theory of heat through cognitive conflict instruction (CCI) AIP Conference Proceedings 2330, 050001 (2021); <a href="https://doi.org/10.1063/5.0043400">https://doi.org/10.1063/5.0043400</a> 2330, 050001	Heny Ekawati Haryono, Khafidhoh Nurul Aini, Achmad Samsudin and <b>Parsaoran Siahaan</b>
	3	Promoting the model introducing, connecting, applying reflecting, and extending using Rasch analysis (ICARE-R) to improve students' critical thinking skills on physics concepts Journal of Physics: Conference Series 1806 (2021) 012032 IOP Publishing doi:10.1088/1742-6596/1806/1/012032	L H Sa'diyah, <b>P Siahaan</b> , A Samsudin , E Suhendi, V R Riani and W O Fatima
	4	The application of the Rasch Model to evaluate MET for the mastery of microscope concept Journal of Physics: Conference Series 1806 (2021) 012027 IOP Publishing doi:10.1088/1742-6596/1806/1/012027	C S A Barus, <b>P Siahaan</b> , and E Suhendi
	5	Introduction, Connection, Application, Reflection, and Extension (ICARE) Learning Model: The Impact on Students' Collaboration and Communication Skills Jurnal Ilmiah Pendidikan Fisika Al-BiRuNi <a href="http://ejournal.radenintan.ac.id/index.php/al-biruni/issue">http://ejournal.radenintan.ac.id/index.php/al-biruni/issue</a> DOI: 10.24042/jipfalbiruni.v9i1.5547 P-ISSN: 2303-1832 e-ISSN: 2503-023X	<b>Parsaoran Siahaan</b> , Ermawati Dewi, Endi Suhendi
	6	Mapping the reasoning skill of the students on pressure concept IOP Conf. Series: Journal of Physics: Conf. Series 1157 (2019) 022036 IOP Publishing doi:10.1088/1742-6596/1157/2/022036	R Rosdiana , <b>P Siahaan</b> and T Rahman
Activities in specialist bodies over the last 5 years	<b>Organization</b>		<b>Role</b>
	Physical Society of Indonesia		Member
* <i>Membership without a specific role need not be mentioned</i>			