



STAFF HANDBOOK

Name	Irma Rahma Suwarma, S.Si, M.Pd, PhD			
Position	<i>Teaching area and designation</i>			
Academic career	<i>Initial academic appointment</i>	<i>Institution</i> Assistant Professor, Department of Physics Education of Universitas Pendidikan Indonesia	<i>Year</i> 2016-Now	
	<i>Habilitation [German post-doctoral qualification] (Subject)</i>	<i>institution</i>	<i>Year</i>	
	<i>Doctorate (Subject) Science Education</i>	<i>Institution</i> Shizuoka University	<i>Year</i> 2011-2015	
	<i>Master degree (subject)</i>	<i>Institution</i> Universitas Pendidikan Indonesia	<i>Year</i> 2005-2007	
	<i>Undergraduate degree (subject) Physics</i>	<i>Institution</i> Universitas Padjadjaran	<i>Year</i> 1999-2003	
	Employment	<i>Position</i> Lecturer	<i>Employer</i> Universitas Pendidikan Indonesia	<i>Year</i> 2008- Now
<i>Teacher</i>		<i>Al Irsyad Satya Islamic School</i>	<i>2006-2008</i>	
Research and development projects over the last 5 years	Financing			
	No	Year	Title of Research Project	Sources
				Amount (Million Rp)
	1	2020	<i>Development SLR-STEM based Modul to Enhance Students Independency and Literacy Partners with Bogor Agriculture University (IPB)</i>	<i>Grant from Center of Assessment Indonesia, FY20</i>
	2	2019	<i>Development Web based Collaborative Problem Solving Assessment Partners with Bogor Agriculture University (IPB)</i>	<i>Grant from Center of Assessment Indonesia, FY20</i>
3	2019	<i>Collaborative Research in STEM Education Partner: Shizuoka Universit</i>	<i>UPI research Grant @FY</i>	



Industry collaborations over the last 5 years	<i>Project title : Applying 4Dframe as Learning Media in Schools and afterschool activity</i> <i>Partners : 4Dframe Korea Inc.</i> <i>Since 2018 – present</i>			
Patents and proprietary rights	No.	Title	Type	Year
	1	Petunjuk <i>Project Based Learning</i> Pada <i>Engineering Class Design</i> Kelas VII Semester 1	Proprietary rights	2018
	2	Workbook Fisika Sma Berorientasi Keterampilan Berpikir Kritis Dan Keterampilan Proses Sains Pada Topik Tekanan Hidrostatika	Proprietary rights	2019
	3	Modul STEM: Struktur Bumi dan Dinamiknya	Proprietary rights	2019
	4	Modul Pembelajaran STEM: Clean Your Arteries And Prevent Hearth Attack	Proprietary rights	2020
	5	Modul Matematika, Sains, Teknologi, Dan Rekayasa (MSTR), Transportasi: Masalah Dan Keberlanjutannya Di Indonesia	Proprietary rights	2020
Important publications over the last 5 years	<i>Selected recent publications from a total of approx. (give total number): 4 Publications</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	Implementation of STEM education in Indonesia: teachers' perception of STEM integration into curriculum Journal of Physics: Conference Series, 2019	IR Suwarma, Y Kumano	
	2	Engaging students in STEM based learning through media and technology Journal of Physics: Conference Series, 2019	IR Suwarma, I Kaniawati, DS Kaniawati	
	3	Identification Of Social And Cognitive Domain Criteria 'Keyword' On Collaborative Problem Solving Skills Analytic Rubric Prosiding ICEAP 2019 ISBN: 978-602-259-182-5 © 2019	Meuthia Rachmaniah, Irma Rahma Suwarma, Erlina Rienovita, Idwin Irma Khrisna	
	4	Integration of Self-diagnosis in Pascal Law Learning Using STEM Approach	SH Padliyyah, IR Suwarma, A Jauhari	



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

Jalan Setiabudi 229 Bandung 40154
Tel: (022) 2000579 Fax. (022) 2000579
Website: kimia.upi.edu, E-mail: jp_pend_kimia@upi.edu

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Activities in specialist bodies over the last 5 years	<i>Organization</i>	<i>Role</i>	<i>Period</i>
	<i>ISAS (International Society for Advancement of STEAM)</i>	<i>Editorial Board of ICAS</i>	<i>2019-2020</i>
	<i>EASE (East Asian Association of Science Education)</i>	<i>Indonesia Region Executive member coordinator</i>	<i>June 2021-present</i>
	<i>STEM Education Center UPI</i>	<i>Chief</i>	<i>October 2018-present</i>
<i>*Membership without a specific role need not be mentioned</i>			