UNIVERSITAS PENDIDIKAN INDONESIA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES EDUCATION
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STAFF HANDBOOK

Name	Iyon Suyana		
Position	Physics Education		
Academic career	*Initial academic appointment*	*Institution* ***Associate Professor, Department of Physics Education of Universitas Pendidikan Indonesia***	*Year* ***2009-Now***
	Habilitation [German post-doctoral qualification] (Subject)	*Institution* -	*Year* -
	Doctorate (Subject)	*Institution*	*Year*
	Master degree (subject)	*Institution* ***Universitas Indonesia***	*Year* ***2001-2003***
	Undergraduate degree (subject)	*Institution* ***Universitas Pendidikan Indonesia***	*Year* ***1984-1989***
Employment	*Position*	*Employer*	*Year*
	Lecturer	***Dean***	***1991-Now***

Research and development projects over the last 5 years

Name of project or research focus
Period and any other information
Partners, if applicable
Amount of financing

No	Year	Title of Research Project	Financing	
			Sources	Amount (Million Rp)
1	2020	Upaya Meminimalisir Miskonsepsi Siswa Melalui Pengembangan dan Penerapan Model Pembelajaran Kooperatif Berbantuan Simulasi Komputer	Kemendikbud Ristek Dikti	104
2	2019	Optimasi Pengembangan Simulasi Komputer dalam Pembelajaran Kooperatif untuk Meminimalisir Miskonsepsi Fisika Siswa SMA di Kota Bandung	Kemendikbud Ristek Dikti	116,5
3	2018	Upaya peningkatan hasil belajar siswa pada konsep gerak planet dan gaya gravitasi melalui Conceptua change context (CCT) berbantuan teknologi digital dikelas X SMA Laboratorium Percontohan UPI	Universitas Pendidikan Indonesia	30

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Industry collaborations over the last 5 years

Patents and proprietary rights

No.	Title	Type	Year
1	Perangkat Pembelajaran Topik Momentum Dan Impuls Kelas X SMA Dengan Menggunakan Interactive Conceptual Instruction (ICI) Dengan Bantuan Simulasi Komputer	Proprietary rights	2020
2	Perangkat pembelajaran materi alat optik kelas 11 SMA menggunakan activ learning of Optics and Photonics berbantuan simulasi komputer	Proprietary rights	2019
3	Perangkat pembelajaran usaha dan energi untuk siswa kelas 10 dengan menggunakan strategi PPOEW berbantuan simulasi komputer.	Proprietary rights	2018

Important publications over the last 5 years

Selected recent publications from a total of approx.
(give total number): 7 Publications (Scopus Indexed)
Author(s)
Title
Any other information
Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

No	Publication	Author (s)
1	An Analysis of Students' Misconceptions About the Implementation of Active Learning of Optics and Photonics Approach Assisted by Computer Simulation International Journal of Emerging Technologies in Learning, 2020, 15.9	Ida Kaniawati, Sri Rahmadani, Nuzulira Janeusse Fratiwi, **Iyon Suyana**, Agus Danawan, Achmad Samsudin, Endi Suhendi
2	Analysis of students interaction on technology based Conceptual Change Text (CCT) in physics classroom Journal of Physics: Conference Series 1280 (2019) 052061 IOP Publishing doi:10.1088/1742-6596/1280/5/052061	**I Suyana** and L L Sarah
3	Effectiveness of implementation interactive conceptual instruction (ICI) with computer simulation to overcome students' misconceptions about newton's law of gravitation Journal of Physics: Conference Series 1280 (2019) 052011 IOP Publishing doi:10.1088/1742-6596/1280/5/052011	WD Aryani, E Suhendi, **I Suyana**, A Samsudin, I Kaniawati

	4	An investigation of students' misconceptions about momentum and impulse through interactive conceptual Instruction (ICI) with computer simulation Journal of Physics: Conference Series 1280 (2019) 052008 IOP Publishing doi:10.1088/1742-6596/1280/5/052008	G Triyani, A Danawan, **I Suyana**, I Kaniawati
	5	Constructing Essay Questions To Assess Scientific Creative And Critical Thinking Simultaneously Related To Collision Problem Based On Students Responses IOP Conf. Series: Journal of Physics: Conf. Series 1204 (2019) 012048 IOP Publishing doi:10.1088/1742-6596/1204/1/012048	**Iyon Suyana**, Sarah Nadaipah, Parlindungan Sinaga, Selly Feranie
	6	Analyzing students' misconceptions about Newton's laws through four-tier Newtonian test (FTNT) *Journal of Turkish Science Education*, 2019, 16.1: 110-122.	Ida Kaniawati, Nuzulira Janeusse Fratiwi, Agus Danawan, **Iyon Suyana**, Achmad Samsudin, Endi Suhendi
	7	The transformation of two-tier test into four-tier test on Newton's laws concepts *AIP Conference Proceedings*. AIP Publishing LLC, 2017. p. 050011	Nuzulira Janeusse Fratiwi, Ida Kaniawati, Endi Suhendi, **Iyon Suyana**, Achmad Samsudin

Activities in specialist bodies over the last 5 years

Organization	Role	Periods
Physical Society of Indonesia	Member	2015 - Now

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Membership without a specific role need not be mentioned