



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	Ika Mustika Sari				
Position	Physics Education				
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>		
		Assistant Professor, Department of Physics Education of Universitas Pendidikan Indonesia	2014-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>		
		Institut Teknologi Bandung	2007-2009		
	<i>Master degree (subject)</i>	<i>Institution</i>	<i>Year</i>		
		Universitas Pendidikan Indonesia	2002-2006		
Employment	<i>Position</i>	<i>Employer</i>	<i>Year</i>		
	Lecturer	Dean	2010-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>				
	No	Year	Title of Research Project	Financing	
				Sources	
				Amount (Million Rp)	
	1	2019	Pengembangan <i>model based learning</i> (mbl) untuk meningkatkan pemahaman konsep dan kemampuan pemodelan mahasiswa dalam perkuliahan fisika dasar pada materi kalor dan perpindahan kalor.	HIBAH PENELITIAN PENGUATAN KOMPETENSI	55
	2	2016	Penyusunan Bahan Ajar Fisika SMP Berorientasi Keseimbangan Literasi Sains	HIBAH PENELITIAN PRODUK TERAPAN-DESENTRALISASI-DIKTI	55
	3	2015	Identifikasi Model Mental Mahasiswa Calon Guru Fisika pada Materi Pokok Kalor dan Perambatannya	HIBAH PENELITIAN PENGUATAN KOMPETENSI	30



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 Website: fisika.upi.edu, E-mail: fisika@upi.edu

	4	2014	Analisis Konten Buku teks Pelajaran Fisika SMP Se Kota Bandung berdasarkan Kategori Literasi dan Komparasi terhadap Konten Buku Sains terbitan Luar Negeri dari segi Literasi Sains	HIBAH PENELITIAN DOSEN MUDA- BOPTN UPI	13	
Industry collaborations over the last 5 years						
Patents and proprietary rights	No.	Title		Type	Year	
	1	Lembar Karya Siswa Berbasis Model Untuk Meningkatkan Pemahaman Konsep Pada Materi Suhu, Kalor Dan Perpindahannya Karya tulis, Nomor Pencatatan: 000168462, 05 Desember 2019, pemegang hak cipta: Ika Mustika Sari, M.PFis, Mutia Hariza, Drs. Saeful Karim, M.Si, Duden Saepuzaman, M.Pd, M.Si		Proprietary rights	2019	
	2	Instrumen Untuk Mengukur Pemahaman Konsep Suhu Dan Kalor Karya tulis lainnya, Nomor Pencatatan: 000168400, 05 Desember 2019, pemegang hak cipta:Drs. Saeful Karim, M.Si, Ika Mustika Sari, M.PFis, Mutia Hariza		Proprietary rights	2019	
	3	Aplikasi Kamus Fisika Berorientasi Literasi Sains Pada materi Suhu dan Kalor Program Komputer, Nomor Pencatatan: 000153453, 09 September 2019, pemegang hak cipta Fathan Muhammad Izzudin, Ika Mustika Sari, M. PFis, Drs. Dedi Sasmita, M.Si, Dr. Selly Feranie, M.Si		Proprietary rights	2019	
	4	E-book Fisika SMA Berorientasi Keseimbangan Aspek-Aspek Literasi Sains Pada Materi Fluida Statis Berbasis Aplikasi 3D Flipbook E-book, Nomor Pencatatan: 000134241, 07 Februari 2019, pemegang hak cipta Nurdini, Ika Mustika Sari, M. PFis, Drs. Iyon Suyana, M.Si		Proprietary rights	2019	
5	E-book Fisika SMA berorientasi keseimbangan aspek-aspek literasi sains pada materi Fluida Statis E-book, Nomor Pencatatan: 000133251, 29 Januari 2019, pemegang hak cipta Ika Mustika Sari, M. PFis, Nurdini, Drs. Iyon Suyana, M.Si		Proprietary rights	2019		



	6	<p>Program Simulasi Gerak Harmonik Sederhana (Sistem Pegas-Massa di ruang hampa, sistem benda bergetar di permukaan fluida dan bandul sederhana di ruang hampa.</p> <p>Program Komputer, Nomor Pencatatan: 00013334229 Januari 2019, pemegang hak cipta: Dr. Selly Feranie, M.Si, Dra. Hera Novia, M.T, Ika Mustika Sari, M. PFis</p>	Proprietary rights	2019																
<p>Important publications over the last 5 years</p>	<p><i>Selected recent publications from a total of approx. (give total number): 16 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" data-bbox="400 824 1501 2004"> <thead> <tr> <th data-bbox="400 824 464 875">No</th> <th data-bbox="464 824 1331 875">Publication</th> <th data-bbox="1331 824 1501 875">Author (s)</th> </tr> </thead> <tbody> <tr> <td data-bbox="400 875 464 1160">1</td> <td data-bbox="464 875 1331 1160"> <p>Efektivitas Model Based Learning (MBL) dalam meningkatkan penguasaan konsep peserta didik pada materi kalor dan perpindahannya</p> <p>WaPfi (Wahana Pendidikan Fisika), Vol 5 (1), ISSN: 2338-1027, 2020, hal., https://ejournal.upi.edu/index.php/WPF/article/view/23422/11546</p> </td> <td data-bbox="1331 875 1501 1160"> <p>Ika Mustika Sari, Saeful Karim, Mutia Hariza Lubis, Duden Saepuzaman, Parlindungan Sinaga.</p> </td> </tr> <tr> <td data-bbox="400 1160 464 1375">2</td> <td data-bbox="464 1160 1331 1375"> <p>Pre-Class Tutorial (PCT) untuk Meningkatkan Pemahaman Konsep Calon Guru Fisika pada Perkuliahan Fisika Dasar Materi Usaha dan Energi, pada</p> <p>Jurnal WaPfi (Wahana Pendidikan Fisika), Vol 5 (1), pp 15-22, ISSN: 2338-1027</p> <p>https://ejournal.upi.edu/index.php/WPF/article/download/23421/11477</p> </td> <td data-bbox="1331 1160 1501 1375"> <p>D Saepuzaman, S Karim, S Feranie, IM Sari</p> </td> </tr> <tr> <td data-bbox="400 1375 464 1637">3</td> <td data-bbox="464 1375 1331 1637"> <p>Pre-Class Tutorial (PCT): an instructional strategy to improve pre-service physics teachers' understanding about PVTs diagrams in thermodynamic course,</p> <p>Journal of Physics: Conference Series, Vol 1157, Issue 3, Pages 032065</p> <p>Publisher: IOP Publishing, https://iopscience.iop.org/article/10.1088/1742-6596/1157/3/032065/pdf</p> </td> <td data-bbox="1331 1375 1501 1637"> <p>D Saepuzaman, SP Sriyansyah, IM Sari, A Zulfikar, S Karim</p> </td> </tr> <tr> <td data-bbox="400 1637 464 2004">4</td> <td data-bbox="464 1637 1331 2004"> <p>The Development of Model-Based Learning in Introductory Physics: The effectiveness of improving Students Understanding in Heat and Heat Transfer</p> <p>MSCEIS 2019, October 12, Bandung, Indonesia Copyright © 2020 EAI. DOI 10.4108/eai.12-10-2019.2296491</p> </td> <td data-bbox="1331 1637 1501 2004"> <p>Ika Mustika Sari, Saeful Karim, Duden Saepuzaman, Taufik R Ramalis, Dadi Rusdiana</p> </td> </tr> </tbody> </table>					No	Publication	Author (s)	1	<p>Efektivitas Model Based Learning (MBL) dalam meningkatkan penguasaan konsep peserta didik pada materi kalor dan perpindahannya</p> <p>WaPfi (Wahana Pendidikan Fisika), Vol 5 (1), ISSN: 2338-1027, 2020, hal., https://ejournal.upi.edu/index.php/WPF/article/view/23422/11546</p>	<p>Ika Mustika Sari, Saeful Karim, Mutia Hariza Lubis, Duden Saepuzaman, Parlindungan Sinaga.</p>	2	<p>Pre-Class Tutorial (PCT) untuk Meningkatkan Pemahaman Konsep Calon Guru Fisika pada Perkuliahan Fisika Dasar Materi Usaha dan Energi, pada</p> <p>Jurnal WaPfi (Wahana Pendidikan Fisika), Vol 5 (1), pp 15-22, ISSN: 2338-1027</p> <p>https://ejournal.upi.edu/index.php/WPF/article/download/23421/11477</p>	<p>D Saepuzaman, S Karim, S Feranie, IM Sari</p>	3	<p>Pre-Class Tutorial (PCT): an instructional strategy to improve pre-service physics teachers' understanding about PVTs diagrams in thermodynamic course,</p> <p>Journal of Physics: Conference Series, Vol 1157, Issue 3, Pages 032065</p> <p>Publisher: IOP Publishing, https://iopscience.iop.org/article/10.1088/1742-6596/1157/3/032065/pdf</p>	<p>D Saepuzaman, SP Sriyansyah, IM Sari, A Zulfikar, S Karim</p>	4	<p>The Development of Model-Based Learning in Introductory Physics: The effectiveness of improving Students Understanding in Heat and Heat Transfer</p> <p>MSCEIS 2019, October 12, Bandung, Indonesia Copyright © 2020 EAI. DOI 10.4108/eai.12-10-2019.2296491</p>	<p>Ika Mustika Sari, Saeful Karim, Duden Saepuzaman, Taufik R Ramalis, Dadi Rusdiana</p>
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	5	Peningkatan Keterampilan Generik Sains pada Materi Tata Surya melalui Pembelajaran Berbantuan Aplikasi Solar System Scope untuk Siswa SMP <i>Journal of Teaching and Learning Physics</i> , 2019, 4.2: 1-17	Ika Mustika Sari , Syifa Fauzi Ahmad, Amsor
	6	Excavating the Quality of Vocational Students' Mental Models and Prediction on Heat Conduction IOP Conf. Series: Journal of Physics: Conf. Series 1204 (2019) 012042 IOP Publishing doi:10.1088/1742-6596/1204/1/012042	IM Sari , D Fauzi, A Malik, D Saepuzaman, TR Ramalis, D Rusdiana
	7	Pre-service physics teachers' mental models of heat conduction: a case study of the process-analogy of heat conduction IOP Conf. Series: Journal of Physics: Conf. Series 1157 (2019) 032073 IOP Publishing doi:10.1088/1742-6596/1157/3/032073	IM Sari , A Malik, D Saepuzaman, D Rusdiana, TR Ramalis
	8	Analysis of scientific literacy-based junior high school physics teaching materials readability on students increasing scientific literacy skills Journal of Physics: Conference Series, Vol 1280, Issue 5, Pages 052010 Publisher: IOP Publishing H Rusnayati, G Herviana, IM Sari https://iopscience.iop.org/article/10.1088/1742-6596/1280/5/052010/pdf	H Rusnayati, G Herviana, IM Sari
	9	The development of higher order thinking laboratory (hotlab) model related to heat transfer topic Journal of Physics: Conference Series, Vol 1204, Issue 1, Pages 012060 Publisher: IOP Publishing https://iopscience.iop.org/article/10.1088/1742-6596/1204/1/012060/pdf	A Malik, A Setiawan, A Suhandi, A Permanasari, A Samsudin, Y Dirgantara, HY Suhendi, IM Sari , N Hermita
	10	ANALISIS BUKU AJAR FISIKA SMA KELAS XI SEMESTER 1 DI KOTA BANDUNG BERDASARKAN KESEIMBANGAN ASPEK LITERASI SAINS WaPfi (Wahana Pendidikan Fisika), Vol 3 (1), pp 96-103, ISSN: 2338-1027 https://doi.org/10.17509/wapfi.v3i1.10948 https://ejournal.upi.edu/index.php/WPF/article/download/10948/6698	Nurdini, Ika Mustika Sari , Lyon Suyana
	11	Retracted article: The correlation of learning independence attitudes and student's learning achievement on physics learning based-portfolio Jurnal Penelitian dan Pembelajaran IPA, Volume 3, Issue 1, pp 74-83 http://www.jurnal.untirta.ac.id/index.php/JPPi/article/download/1741/1335	Asep Saefullah, Parsaoran Siahaan, Ika Mustika Sari



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	12	<p>What do they know about Heat and Heat Conduction? A case study to excavate Pre-service Physics Teachers' Mental Model in Heat and Heat Conduction</p> <p>Journal of Physics: Conference Series, Vol 812, Issue 1, Pages 012090 Publisher: IOP Publishing https://iopscience.iop.org/article/10.1088/1742-6596/812/1/012090/pdf</p>	IM Sari		
	13	<p>Students' mental model on heat convection concept and its relation with students conception on heat and temperature</p> <p>Journal of Physics: Conference Series, Vol 812, Issue 1, Pages 012092 Publisher: IOP Publishing https://iopscience.iop.org/article/10.1088/1742-6596/812/1/012092/pdf</p>	R Amalia, IM Sari, P Sinaga		
	14	<p>Sundanese flute: from Art and Physics perspective</p> <p>International Conference on Mathematics and Science Education. Atlantis Press, 2017</p>	Ika M Sari, Khairil Anwar, Engkur Kurdita, Nuryani Rustaman		
	15	<p>TUTORIAL PRA-KELAS: SEBUAH STRATEGI PEMBELAJARAN UNTUK MENINGKATKAN PEMAHAMAN KONSEP PADA PERKULIAHAN FISIKA DASAR</p> <p>Jurnal Pengajaran Matematika dan Ilmu Pengetahuan Alam, Vol. 21 No.2 (2016)</p> <p>http://journal.fpmipa.upi.edu/index.php/jpmipa/article/view/825</p>	Duden Saepuzaman, Syakti Perdana Sriyansyah, Saeful Karim, Ika Mustika Sari		
Activities in specialist bodies over the last 5 years	Organization			Role	Periods
	Physical Society of Indonesia			Member	2015 - Now
* <i>Membership without a specific role need not be mentioned</i>					