



STAFF HANDBOOK

Name	Ahmad Aminudin				
Position	Instrumentation Physics				
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>		
	Assistant Professor	Universitas Pendidikan Indonesia	2012		
	<i>Habilitation [German post-doctoral qualification] (Subject)</i>	<i>institution</i>	<i>Year</i>		
	<i>Doctorate (Subject)</i>	<i>Institution</i>	<i>Year</i>		
	Physics	Institut Teknologi Bandung	2011-2016		
	<i>Master (Subject)</i>	<i>Institution</i>	<i>Year</i>		
Physics	Universitas Indonesia	2002-2004			
<i>Undergraduate degree (subject)</i>	<i>Institution</i>	<i>Year</i>			
Physics	Universitas Indonesia	1992-1998			
Employment	<i>Position</i>	<i>Employer</i>	<i>Year</i>		
	Lecturer	Dean	1998-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	Amount (Million Rp)
1	2021 - 2023	Design and fabrication of micromixer based on PDMS material integrated pH biosensor at Lab-on-Chip	Ministry of Research and Technology of the Republic of Indonesia	175,96 (2021)	
2	2018 - 2020	Characterization of Carbon Dioxide Emissions in Tropical Peatlands in Kalimantan in Triggers of Global Warming	Ministry of Research and Technology of the Republic of Indonesia	(2020) (2019) (2018)	
3	2018 - 2020	Fabrication of Wireless Optical Sensor Network System for Water Quality Monitoring Applications in Shrimp Farming	Ministry of Research and Technology of the Republic of Indonesia	150 (2020) 105 (2019) 142 (2018)	
4	2018	Manufacture and Characterization of Interdigit Capacitive Sensors for Soil Moisture Measurement Applications	competency strengthening research program Indonesian education university	37 (2018)	
Industry collaborations over the last 5 years	<i>Project title</i>				
	<i>Partners</i>				



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Patents and proprietary rights	No.	Title	Type	Year
	1	Monitoring System Program of Sensor Value With Interface Based on Internet Of Things Using MQTT Protocols	Proprietary rights	2020
	2	Carbon Dioxide Emission Test In Sand Soil with Gas Sensor MG-8111	Proprietary rights	2019
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (give total number): 24 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>			
	No	Publication	Author (s)	
	1	Simulation microring resonator based on racetrack-shaped configuration for Glucose sensing; A Journal of Engineering Science and Technology, 2020, 15 (5) , pp. 2939–2949	Aransa, A. , Hasanah, L., Julian, C., Aminudin, A . Sahari, SK , Mulyanti, B.	
	2	Identifying of peat soil layers using K-means cluster in the South Kalimantan, Indonesia, Journal of Engineering Science and Technology, 2020, 15(4) , pp . 2522–2531	Iryanti, M. , Aminudin, A , Agustine, E. Srigutomo, W. , Setiawan, T.	
	3	The effect of glucose concentration sample 0-1.50% on the quality factor of microring resonator, Journal of Engineering Science and Technology, 2020, 15(3) , pp. 1639–1651	Julian, C. , Hasanah, L. , Aransa, A. , Aminudin, A . Pawianto, RE , Mulyanti, B.	
	4	Goto telescope motion control system right ascension and declination direction with three modes of speed using microcontroller atmega2560, PervasiveHealth: Pervasive Computing Technologies for Healthcare, 2020, 1 , pp. 641–645	Kurniawan, IH , Irfan, M. , Aminudin, A	
	5	design and performance analysis of a telemetry system for remote monitoring of turbidity of water during the covid-19 pandemic, Indonesian Journal of Science and Technology, 2020, 5(2) , pp. 299–307	Hasanah, L. , Hakim, WL , Aminudin, A. , Sahari, SK , Mulyanti, B. A	
	6	The characterization of giant magnetoresistance sensor for prototype of bridge deflection measurement, Journal of Physics: Conference Series, 2019, 1280(2) , 022065.	Ahmad Aminudin , Harnum, RD , Iryanti, M.	
7	Multi-Hop Wireless Sensor Network Performance and Energy Simulation, Pertanika Journals SCIENCE & TECHNOLOGY, Vol. 26 No. 1, 2018, p. 427-440	Lilik Hasanah, Heru Yuwono, Ahmad Aminudin , Endi Suhendi, Yuyu Rachmat Tayubi and Khairurrijal		
Activities in specialist	*			



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bodies over the last 5 years	Organization	Role	Periods
	Physical Society of Indonesia	Member	2015 - Now

Membership without a specific role need not be mentioned