

**Table 3.9.** Collaborative Activities of Ba-Physics

No	Institution	Type of Activity	Field	Level	Benefits	Evidence Link
1	Center for Environmental Remote Sensing, Chiba University, Japan	International Workshop on Oceanography of Indonesian SEAS, Oct 7–9, 2022	Education	International	Enhanced computational physics, modeling, and oceanography skills for students and lecturers	<a href="#">Collaboration and Activity Evidence</a>
2	FMIPA Universitas Hasanuddin	Physics Webinar Series 1: Easy Way in Writing Manuscript and Analysis Data for Boosting International Publication	Education	National	Supported educational activities in the Physics Program	<a href="#">Collaboration and Activity Evidence</a>
3	FMIPA Universitas Padjadjaran	Workshop: Utilizing Software for Final Project Presentation	Education	National	Enhanced students' skills in software for research data presentation	<a href="#">Collaboration and Activity Evidence</a>
4	RSUD A. W. Sjahranie Samarinda	Internship (PKL) in Radiology, radiotherapy, and nuclear medicine Department (Medical Physics KBK Students)	Education	Local	Students gain hands-on experience in hospital radiology	<a href="#">Collaboration and Activity Evidence</a>
5	Rumah Sakit Samarinda Medika Citra (SMC)	Internship (PKL) in SMC Hospital for Medical Physics KBK Students	Education	Local	Students gain practical hospital experience	<a href="#">Collaboration and Activity Evidence</a>
	Meteorology, Climatology, and Geophysics Agency (BMKG)	Cooperation Agreement (PKS) between BMKG and FMIPA UNMUL, July 17, 2022	Education and Research	National	Enhances academic and research capacity in meteorology, climatology, and geophysics through collaboration between BMKG and FMIPA UNMUL	<a href="#">Collaboration and Activity Evidence</a>
6	Faculty of Science, ITS	Collaborative research resulting in publication: The effects of dopant concentration on the performances of a-SiOx:H(p)/a-Si:H(i1)/a-Si:H(i2)/ $\mu$ c-Si:H(n) solar cell; Collaborative research resulting in publication: The influences of front work function and intrinsic bilayer (i1, i2) on p-i-n based amorphous silicon solar cell's performance; and Collaborative research resulting in publication: Effect of active layer thickness on the performance of amorphous hydrogenated silicon solar cells	Research	National	Supports the increase of reputable international publications	<a href="#">Collaboration and Activity Evidence</a>
7	Institut Teknologi Bandung (ITB)	Collaborative research resulting in publication: Effective elastic modulus of wet granular materials and friction coefficient proposal; and Collaborative research presented at SNF 2021 and resulting in a national accredited publication: Low-cost solar cell fabrication study using TiO2	Research	National	Supports the increase of reputable international publications	<a href="#">Collaboration and Activity Evidence</a>

8	Faculty of Earth Sciences and Technology, ITB	Collaborative research resulting in publication: Numerical modeling of currents circulation in Balikpapan Bay during oil spill event	Research	National	Supports the increase of reputable international publications	<a href="#">Collaboration and Activity Evidence</a>
9	Faculty of Engineering, Universitas Lampung	Collaborative research resulting in publication: Hypocenter dimension of 7.5 Mw Palu earthquake using fractal approach	Research	National	Supports the increase of reputable international publications	<a href="#">Collaboration and Activity Evidence</a>
10	FMIPA Universitas Padjadjaran	Lecturers serve as peer reviewers for "Dharma Santika" community service journal; and Lecturers serve as editors for "Jurnal Ilmu dan Inovasi Fisika (JIIF)" Vol.7 No.1	Community Service	National	Provides a platform for lecturers to engage in community service publications and supports KPI targets for off-campus activities; and Provides a platform for lecturers to engage in scientific publication and supports KPI targets for off-campus activities	<a href="#">Collaboration and Activity Evidence</a>
11	FMIPA Universitas Lambung Mangkurat	Lecturers serve as peer reviewers for "Jurnal Fisika Flux"	Community Service	National	Provides a platform for lecturers to engage in scientific publication and supports KPI targets for off-campus activities	<a href="#">Collaboration and Activity Evidence</a>