

Graduate Profiles and Learning Outcomes of the Ba Physics

Program Learning Outcomes (PLO)		Graduate Profiles			
		Eduator	Researcher	Practitioner	Entrepreneur
[PLO-1]	Students are able to have a religious attitude and practice the values of Pancasila in life.	✓	✓	✓	✓
[PLO-2]	Students are able to have a responsible, honest attitude, and independently being able to think critically, creatively, innovatively, with an entrepreneurial spirit, and acting professionally in their work.	✓	✓	✓	✓
[PLO-3]	Students are able to have a good behavior regarding the conservation of tropical rainforests and their environment.	✓	✓	✓	✓
[PLO-4]	Students have the capability of applying logical, critical, systematic and innovative thinking for decision-making in their work, in terms of implementing science and technology	✓	✓	✓	✓

[PLO-5]	Students are able to apply scientific principles, methods, and ethics in the form of theses and scientific papers, to implement science and technology.	✓	✓	✓	
[PLO-6]	Students have the capability of working independently, expanding, and maintaining a network to contribute to society.	✓	✓	✓	✓
[PLO-7]	Students are able to apply scientific methods mathematically to produce physical models.	✓	✓	✓	
[PLO-8]	Students are able to analyze various physical problems to find alternative solutions both analytically and computationally for scientific research.	✓	✓	✓	
[PLO-9]	Students are able to produce scientific physics papers and disseminate them, regarding the potential interdisciplinary applications in terms of science, technology, and the management of tropical rainforests and their environment.	✓	✓	✓	

[PLO-10]	Students are able to evaluate theoretical concepts and fundamental principles of classical and modern physics for solving problems in a physical system.	✓	✓	✓	
[PLO-11]	Students able to apply fundamental concepts and principles of physics and technology in specific fields of expertise, such as theoretical physics, materials physics, electronics and instrumentation physics, medical physics, geophysics, and physical oceanography.	✓	✓	✓	
[PLO-12]	Students able to analyze and apply mathematical concepts and computational techniques to model, simulate, and solve problems in complex physical systems independently and responsibly.	✓	✓	✓	
[PLO-13]	Students are able to adapt in applying his/her field of expertise in depth related to humid tropical forests and their environment	✓	✓	✓	✓