

PLOs for PSME Division - Active Only

Unit Name	Program Level Outcome (PLO) Name	Program Level Outcome (PLO)	Related ICC
Dept - (PSME) Astronomy	ASTR_PLO_1	Appraise the benefits to society of astronomical research.	
	ASTR_PLO_2	Evaluate the impact on Earth's characteristics of the evolution of the solar system, stars, and stellar systems.	
	ASTR_PLO_3	Evaluate astronomical news items or theories about astronomy based upon the scientific method.	
Dept - (PSME) Chemistry	CHEM_PLO_1	Demonstrate an understanding of the scientific methods and utilize the method in a laboratory setting.	
	CHEM_PLO_2	Demonstrate knowledge of basic chemical concepts as well as mathematical skills as they relate to the study of chemistry.	
	CHEM_PLO_3	Demonstrate basic chemical hygiene and safety in a laboratory environment	
	CHEM_PLO_4	Demonstrate ability to acquire and analyze data through empirical observation and use of appropriate instrumentation.	
Dept - (PSME) Engineering	ENGINEERING_PLO_1	Student should be able to analyze and synthesize basic electric circuits using a variety of methods.	Critical thinking
Dept - (PSME) Geology	Geology PLO_1	Apply the principles of scientific methodology to test hypotheses on how the Earth works as an integrated system.	Critical thinking
			Global, cultural, social and environmental awareness
			Information literacy
			Physical/mental wellness and personal responsibility
	Geology PLO_2	Understand the dynamic Earth processes that act to shape the Earth's surface, lithosphere and oceans over time.	Global, cultural, social and environmental awareness
	Geology PLO_3	Appreciate the role of the crust, lithosphere, continents, and ocean basins as recorders of Earth history.	Global, cultural, social and environmental awareness
	Geology PLO_4	Understand the impact of the Earth and ocean systems on humanity, including natural hazards and the availability, use, and distribution of Earth and ocean resources.	Critical thinking
			Global, cultural, social and environmental awareness
Dept - (PSME) Mathematics	Mathematics PLO_1	Analyze and synthesize the concepts of mathematics from a graphical, analytical, numerical, and verbal approach.	
	Mathematics PLO_2	Demonstrate and apply a systematic and logical approach to modeling and solving mathematical problems.	
	Mathematics PLO_3	Use correct notation and mathematical precision in communicating mathematics.	Critical thinking
Dept - (PSME) Physics	Physics PLO	Demonstrate a proficiency in the fundamental concepts in each of the major areas of physics including the laboratory.	