เปรียบเทียบ PLOs ของหลักสูตรวิศวกรรมธรณีกับมหาวิทยาลัยคู่เทียบในประเทศสหรัฐอเมริกา

PLOs วิศวกรรมธรณี มทส.	PLOs 1	PLOs 2	PLOs 3	PLOs 4	PLOs 5	PLOs 6	PLOs 7	PLOs 8	PLOs 9
PLOS วิศวกรรมธรรม มพล.	Knowledge	Skills	Skills	Skills	Attitude	Skills	Attitude	Attitude	Skills
PLOs	1, 2, 4	2, 4	3, 5	3, 6	1, 4	1, 3, 5,	3, 5	1, 2, 3, 4,	4, 6
วิศวกรรมธรณี/เหมืองแร่						6		5, 6	
มหาวิทยาลัยคู่เทียบในต่างประเทศ	R, U	Ар	Ap, An	Ap, An	An	Е	Е	С	С
(1) An ability to apply knowledge of									
mathematics, science, and								✓	
engineering									
(2) An ability to design and conduct									
experiments, as well as to								✓	
analyze and interpret data									
(3) An ability to design a system,									
component, or process to meet									
desired needs withinrealistic									
constraints such as economic,									
environmental, social, political,						•		•	
ethical, healthand safety,									
manufacturability, and									
sustainability									
(4) An ability to function on		√			√				
multidisciplinary teams		•			•				
(5) An ability to identify, formulate,						√			
and solve engineering problems						•			
(6) An understanding of professional									
and ethical responsibility					•				
(7) An ability to communicate		_							
effectively		√							
(8) The broad education necessary									
to understand the impact of									
engineering solutions in aglobal,					✓				
economic, environmental, and									
societal context									
(9) A recognition of the need for, and									
an ability to engage in life-long							✓		
learning									

	PLOs 1	PLOs 2	PLOs 3	PLOs 4	PLOs 5	PLOs 6	PLOs 7	PLOs 8	PLOs 9
	Knowledge	Skills	Skills	Skills	Attitude	Skills	Attitude	Attitude	Skills
	1, 2, 4	2, 4	3, 5	3, 6	1, 4	1, 3, 5,	3, 5	1, 2, 3, 4,	4, 6
						6		5, 6	
	R, U	Ар	Ap, An	Ap, An	An	Е	Е	С	С
(10) A knowledge of contemporary	√								
issues	•								
(11) An ability to use the techniques,									
skills, and modern engineering									
tools necessary forengineering				•					
practice									
(12) Field competence, including			√					✓	
critical thinking skills.			•					•	
(13) Proficiency in geological science									
topics that emphasize geologic									
processes and the identification of			•						
minerals and rocks									
(14) The ability to visualize and solve									
geological problems in three and									✓
four dimensions									
(15) Proficiency in the engineering									
sciences including statics,									
properties/strength of materials,	V								
and geomechanics									