



Matrix teaching strategies with learning outcomes of Biology program

Psychomotor Skills Domain E		Communication, Information Technology, Numerical Sills Domain D			Interpersonal Skills & Responsibility Skills Domain C				Cognitive Skills Domain B				Knowledge Skills Domain A				Learning outcomes Teaching strategies
5.2	5.1	4.3	4.2	4.1	3.4	3.3	3.2	3.1	2.4	2.3	2.2	2.1	1.4	1.3	1.2	1.1	
√	√								√	√	√	√	√	√	√	√	Lecture
									√	√	√	√		√	√	√	Brainstorming
					√		√		√	√		√	√	√	√	√	Problem-solving
					√		√		√	√	√	√	√	√	√	√	Discussion and dialogue
		√	√							√	√	√	√		√	√	E-learning
√	√				√		√										Cooperative learning
			√	√	√		√										Teaching Exchange
			√		√		√										Peer assessment
√	√	√	√	√													Microteachin
		√	√	√													Competitive learning

√	√	√	√	√														Self- learning
		√	√				√				√	√					√	Individual and group Research
			√				√				√	√	√		√	√		Activities and home works
√	√																	lab strategy