Western

CEE 9510 Assignment 1 Answer Key

Enough information is provided to the student for them to make a reasonable recommendation regarding which projects more likely satisfy the UWO must haves and wants criteria. Notably only project 4 is possibly sketchy enough to consider cutting for consideration outright. If the student decides to base their decision entirely on information that is presented or very easily infered, then a response as below is the outcome. In this scenario it is very clear which project is the most and which is the least beneficial for the university, with all others still perhaps requiring debate or further study. The student was never specifically instructed as to whether all wants had to have a value applied to them. If the student were to take the next step and try to decide without additional information what the ranking order should be, they run the risk of making false assumptions where information might be readily available with futher investigation. As such the right answer for full marks will reflect only applying known values in the want objectives columns and determining correctly projects 1 and 7. Full marks will be given for a response that applies subjective values to unknown or unclear cells as long as the correct answers as shown below are maintained. If the subjective "noise" introduced by the student changes the correct response, then the student will recive only part marks, despite their possibly having all the correct non-subjective cells filled in with correct answers. This is of course because the student has acted upon information they do not truly have when all that would have been necessary to truly know would have been to ask - always a risky and unadvisable strategy for a decision maker. If the student demonstrates a willingness to ask for additional information in their response but still charges ahead and fills in information they do not know, then of course they will receive part marks a best as well. Finally, if the student about have stopped and performed further analysis to see which of project

Must Objectives		Must Meet if impacts	s	1	2	3	4	5	6	7
All projects meets current legal, safety, and environmental standards		y=yes, n=no, N/A		yes	yes	yes	investigate	yes	yes	yes
All projects must be consistent with in some way adding to the body of knowledge at UWO.		y=yes, n=no, N/A		yes	yes	yes	investigate	yes	yes	yes
All projects should not have an adverse effect on current or planned operations within UWO.		y=yes, n=no, N/A		yes	yes	yes	investigate	yes	yes	yes
Want Objectives	Relative Importance 1 100	Single Project Imp Definitions	act	Weighted Score						
Top 10 MacLeans poll	80	0 = no potential = Low Potential High Potential	1 2 =			2	0 or 1 or 2	2		0 or 1 or 2
NRC Matching funds	75	0 = no potential = Low Potential High Potential	1 2 =	2			2	2		0
Commercial activity at Stiller Center	40	0 = no potential = Low Potential High Potential	1 2 =					2		0
Raises Environmental consciousness	50	0 = no potential = Low Potential High Potential	1 2 =	1 or 2			2	0 or 1 or 2	0 or 1 or 2	2
Does not apply pressure to increase tuition	60	0 = no potential = Low Potential High Potential	1 2 =	2	2	0	1	2	2	0
Enhances UWO reputation for innovation	55	0 = no potential = Low Potential High Potential	1 2 =			2	2	2	0 or 1 or 2	0 or 1 or 2
Provides basis for new faculty at UWO	15	0 = no potential = Low Potential High Potential	1 2 =		0 or 1			2		2
Generates 14% ROI	70	0 = no potential = Low Potential High Potential	1 2 =	2	1	0 or 1	0	1 or 2	1 or 2	0 or 1 or 2
Is mission critical or less than \$1million capital expenditure	80	0 = no potential = Low Potential High Potential	1 2 =	2	2		0	2	2	2
Total Weighted Score					270 to 285	270 to 340	480 to 640	880 to 1050	350 to 730	290 to 700
		Lowest			Тор	/				

Must Objectives		Must Meet if impacts	1	2	3	4	5	6	7
All projects meets current legal, safety, and environmental standards		y=yes, n=no, N/A	yes	yes	yes	investigate	yes	yes	yes
All projects must be consistent with in some way adding to the body of knowledge at UWO.		y=yes, n=no, N/A	yes	yes	yes	investigate	yes	yes	yes
All projects should not have an adverse effect on current or planned operations within UWO.		y=yes, n=no, N/A	yes	yes	yes	investigate	yes	yes	yes
Want Objectives	Relative Importance 1 100	Single Project Impact Definitions	Weighted Score						
Top 10 MacLeans poll	80	0 = no potential 1 = Low Potential 2 = High Potential	subjective	subjective	2	0 or 1 or 2	2	subjective	0 or 1 or 2
NRC Matching funds	75	0 = no potential 1 = Low Potential 2 = High Potential		subjective	subjective	2	2	subjective	0
Commercial activity at Stiller Center	40	0 = no potential 1 = Low Potential 2 = High Potential	subjective	subjective	subjective	subjective	2	subjective	0
Raises Environmental consciousness	50	0 = no potential 1 = Low Potential 2 = High Potential		subjective	subjective	2	0 or 1 or 2	0 or 1 or 2	2
Does not apply pressure to increase tuition	60	0 = no potential 1 = Low Potential 2 = High Potential		2	0	1	2	2	0
Enhances UWO reputation for innovation	55	0 = no potential 1 = Low Potential 2 = High Potential	subjective	subjective	2	2	2	0 or 1 or 2	0 or 1 or 2
Provides basis for new faculty at UWO	15	0 = no potential 1 = Low Potential 2 = High Potential	subjective	0 or 1	subjective	subjective	2	subjective	2
Generates 14% ROI	70	0 = no potential 1 = Low Potential 2 = High Potential		1	0 or 1	0	1 or 2	1 or 2	0 or 1 or 2
Is mission critical or less than \$1million capital expenditure	80	0 = no potential 1 = Low Potential 2 = High Potential	2	2	subjective	0	2	2	2
	subjective	Low	subjective	subjective	High	subjective	subjective		
	Priority					/	1	/	