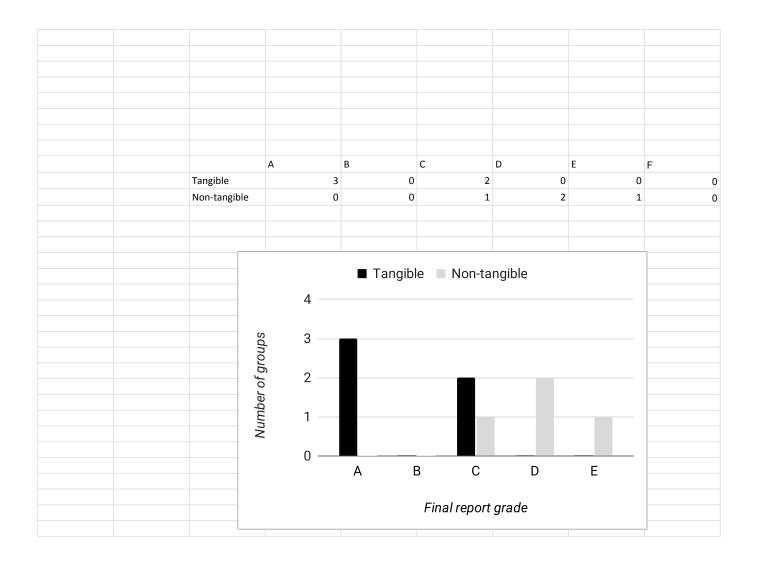
Group	Agre	ement	Difficu	ulty					Tin	ne .					Grade		counts
	Average	St Dev	Average	St dev	Around 5	hours	Around 10	hours	Around 15	hours	Around 20) hours	More than	20 hours	Average	StDev	
Tangible	3.83	1.03	3.08	1.08	0	0.00%	2	16.67%	1	8.33%	4	33.33%	5	41.67%	8.764705882	4.002225165	
Non-tangible	3.91	0.54	3.55	0.82	0	0.00%	2	18.18%	1	9.09%	5	45.45%	3	27.27%	8.15	3.866620951	
Improvement of tangible:	-1.94%		-13.03%			#DIV/0!		-8.33%		-8.33%		-26.67%		52.78%	7.54%		
												1					
							■ Gro	up 🗏 Ta	angible	5	5						
					9 .				4								
					# of participants						3						
					# of par		2	2									
					,	0	0	1	1								
						Aroun hou					ore than O hours						
								Perceive	d duration								

					MEASURED	OBSERVERED				
Group	Anonimized group	Tangible	Grade - assignment	Grade - exam	Semantic quality	Syntactic quality	Pace		Collaboration	
			[A-F]	[1-10]	[1(poor) - 5 (excelle	[1(poor) - 5 (excellent	L/LM/M/MH/H	[1-5]	L/LM/M/MH/H	[1-5]
	D	Υ	Α		5	4	high	5	high	5
	С	Υ	С		4	4	high	5	medium-high	4
	В	Υ	C-		3	3	low	1	medium-low	2
	A	Υ	С		4	4	high	5	high	5
	E	N	С		4	5	medium	3	medium-high	4
	F	N	[E]		4	4	medium-low	2	medium	3
	G	N	D		3	4	medium-high	4	low	1
	Н	N	D		3	4	medium-low	3	medium	3
tangible					4	3.75		4		4
	stdev				0.82	0.50		2.00		1.41
virtual					3.5	4.25		3		2.75
	stdev				0.5773502692	0.5		0.8164965	5	1.258305
Improve tangible	ment of				14.29%	-11.76%		33.33%		45.45%



mestamp	How difficult was it to create the problem, goal, concept and process models?		Please indicate the total amount of time you spent to build the problem, goal, concept and process models?		How much do you agree with the final version of the models?		What was your group number	NOTES	Tang?
		we had a lot of freedom to fill in the blanks. With a bit of practical modeling expierence it wasn't so hard to fill in the		we discussed the items we put up a lot!! Probably more then necessary and we all worked on all		we discussed a lot and came to the best overall			
3/18/2016 11:05:26	2	blanks with standard BP processes etc. Lack of proper data from the case led us to different	More than 20 hours.	models together. We didn't split up the work		conclusion I think. The BPM is not following entirely the guidelines	Group 1		у
3/18/2016 11:21:33	4	assumptions and ideas for structuring the models. This took some time, but at least we had cookies to nibble on during the long meetings.	Around 10 hours	See previous written answer		for 4EM modelling and some connections probably don't make much sense but, what's done is done.	Group 1		у
3/18/2016 15:55:32		Was because it was my first time creating these models.	More than 20 hours.	Because we did not want to make a mistake.		We did everything together so my ideas and opinions where reflected in the model same with my group mate	Group 1		
3/20/2016 15:27:39			More than 20 hours.	because we did not want to make a mistake.		s with my group mate	Group 1		у
									у
3/18/2016 12:21:55	_	Difficulty to clearly see difference between goals/change	Around 20 hours	Meeting to discuss about models. Make and update			Group 2		у
3/19/2016 9:19:01			Around 20 hours	models		1	Group 2		у
3/20/2016 19:47:43	4		Around 20 hours			5	Group 3		
3/21/2016 13:18:12	4		Around 10 hours			1	Group 3		
3/18/2016 13:32:01	1	There was no group 4 option, so I took number 3. I have several years of experience on Business Modeling Consultancy for large corporations "we use our proprietary methodology."	Around 10 hours	Because I had a clear idea on what to do and how to do it, but I need time to remember some of the old ways to do things and try to applied the proposed methodology.		I have to let my team members be an active part of what we were doing and let them take decisions, the methodology we were supposed to use is not up to date. Regarding the course the teacher's guidance was vague.	Group 4	Changed Group from 3 to	1 V
3/24/2016 11:37:39			Around 20 hours	p-p		1	Group 4		,
3/28/2016 16:11:53		no clear quidelines	Around 20 hours				Group 4		
3/28/2016 16:11:53	4		Around 20 hours Around 20 hours				Group 5		
3/18/2016 13:15:25	3	new course and new experience	Around 20 hours	new subject we should investigate		we did hard to submit a perfect version	Group 5		
		Have limited information about business and process, it required time to read about it but familiar with workflow		Have limited information about business and		After fighting finally we decide this is final version but still we have some doubts may be due totally IT background and have little amount			
3/19/2016 23:08:25			More than 20 hours.	process, it required time to read about it.		of business knowledge	Group 5		
3/25/2016 15:43:57	3		Around 20 hours			1	Group 5		
3/30/2016 9:47:16	4		More than 20 hours.			1	Group 5		
3/18/2016 10:59:43	2		Around 15 hours			1	Group 6		
3/18/2016 11:26:11	3	I think some part was complicated and needed to study more.	More than 20 hours.	I need to clarify the case study and then find the problem and goals then draw correct diagram.		We follow the book structure.	Group 6		
3/25/2016 1:52:08	4		Around 20 hours			It was understandable from the documents but r	e Group 8		
3/26/2016 2:48:16	3		Around 10 hours			3	Group 8		
3/18/2016 11:09:34	3	To hard part was to filter the information we needed to put in the models. To actually made the model with those information was easy and the modeling was kind of useless. It looked easier afters but at the end we all end up working on the digital version of the models because the plastic sheet thing was really annoying to manipulate	Around 15 hours	we meet 1-2 time a week (maybe more in some weeks) for around 3 hours every time		5 lt was good models in my opinion	Group 9		y
3/18/2016 11:24:26	4	Overlapp of content and terms of the different models, case study was very often vague and and had too much space for interpretation	More than 20 hours.	We met at least two times per week, over the whole working process. And spend often the whole afternoon together.		Its impossible to find a perfect solution or to agree in a group with several members 100%.	Group 9		у
3/19/2016 0:49:19	3	The creation of the Problem and goal models took most of the time afterwards it was therefore easier to create the concept and business process model	More than 20 hours.	Continuous re-arrangements of models and categorization, linking of the sub-models		A consensus had to be found within the group and lead to a sometimes compromised version of models. Overall acceptance of models	Group 9		у

Timestamp	How difficult was it to create the problem, goal, concept and process models?	Why?	Please indicate the total amount of time you spent to build the problem, goal, concept and process models?		How much do you agree with the final version of the models?	Why?	What was your group number	NOTES	Tang?
42447,4621	2	we had a lot of freedom to fill in the blanks. With a bit of p	More than 20 hours.	we discussed the items we put up a	4	we discussed a l	Group 1		_
42447.47329		Lack of proper data from the case led us to different assu		See previous written answer		The BPM is not f			
42447.66357		Was because it was my first time creating these models.		Because we did not want to make a		We did everythin			
42449.6442			More than 20 hours.		4		Group 1		
42447.51522			Around 20 hours		3		Group 2		
42448.38821		Difficulty to clearly see difference between goals/change		Meeting to discuss about models. Ma			Group 2		
42447.56389	1	There was no group 4 option, so I took number 3. I have several years of experience on Business Modeling	Around 10 hours	Because I had a clear idea on what t	1	I have to let my t	Group 4	Changed Group	from 3 to 4
42453.48448			Around 20 hours		4		Group 4		
42457.67492	4	no clear guidelines	Around 20 hours		4		Group 4		
42447.46497	3	To hard part was to filter the information we needed to put Also the plastic sheet modeling was kind of useless. It lost	Around 15 hours	we meet 1-2 time a week (maybe mo	5	It was good mod	Group 9		
42447.4753		Overlapp of content and terms of the different models, ca		We met at least two times per week,		Its impossible to			
42448.03425		The creation of the Problem and goal models took most of		Continuous re-arrangements of mode		A consensus had			
		g		g					
_									
Average	3.083333333				3.833333333				

	How difficult was it to create the problem, goal, concept and process models?		Please indicate the total amount of time you spent to build the problem, goal, concept and process models?		How much do you agree with the final version		What was your		
Timestamp	models?	Why?	process models?	Why?	of the models?	vvny?	group number	NUTES	Tang?
42449.82481	4		Around 20 hours				Group 3		
42449.82481	4		Around 20 nours Around 10 hours		4		Group 3		
42450.5543	4		Around 10 hours		4		Group 3		
40447 54000	4		A		4		0		
42447.54886			Around 20 hours Around 20 hours				Group 5		
42447.55237				new subject we should investigate		we did hard to submit a perfect version	Group 5		
42448.96418	5	Have limited information about business and process, it re		Have limited information about busing	1 4	After fighting finally we decide this is final version but still we have some do			
42454.65552			Around 20 hours				Group 5		
42459.40783	4		More than 20 hours.		4		Group 5		
42447.45813	2		Around 15 hours		4		Group 6		
42447.47652		I think some part was complicated and needed to study n		I need to clarify the case study and t		We follow the book structure.	Group 6		
42454.07787	4		Around 20 hours			It was understandable from the documents but real time senarios had to be			
42455.11685	3		Around 10 hours		3		Group 8		
Average	3.545454545				3.909090909				

Anonimized group r	Group type	School	Q1	Q3	SUM (Q1+Q3)
F	non-tangible	JIBS	3	7	10
A	tangible	JIBS	5	10	
	_				15
G	non-tangible	JIBS	3	0	3
A	tangible	JIBS	5	7	12
A	tangible	JIBS	5	7	12
Α	tangible	JIBS	3	8	11
G	non-tangible	JIBS	3	8	11
В	tangible	JIBS	2	6	8
D	tangible	JIBS	2	2	4
С	tangible	JIBS	4	4	8
F	non-tangible	JIBS	3	8	11
E	non-tangible	JIBS	5	7	12
D	tangible	JIBS	5	7	12
D	tangible	JIBS	0	0	0
E	non-tangible	JIBS	3	2	5
В	tangible	JIBS	4	2	6
D	tangible	JIBS	4	7	11
F	non-tangible	JTH	2.5	5	7.5
F	non-tangible	JTH	3	6	9
G	non-tangible	JTH	2.5	0	2.5
С	tangible	JTH	3.5	7	10.5
В	tangible	JTH	5	8	13
Е	non-tangible	JTH	3.5	7	10.5
D	tangible	JTH	0	0	0
В	tangible	JTH	2.5	6	8.5
Α	tangible	JTH	0	6	6
С	tangible	JTH	5	7	12