

## Assessment Sheet for KPIs

<b>Course Name</b>	Simulation in Business	<b>KPI#</b>	A1
<b>Semester</b>	Spring	<b>Year</b>	2015
<b>Assessment method</b>			Ability to apply basic math and statistics including the differences between discrete event and continuous simulation models, important random numbers generators and frequency distributions
<b>/Description</b>	Midterm Exam	<b>KPI Name</b>	

Results

Q(2, 3, 4)

<b>Student#</b>	<b>KPI Result out of 4</b>
1	2
2	0
3	4
4	4
5	2
6	4
7	4
8	4
9	2
10	4
11	3
12	3
13	3
14	4
15	2
16	2
17	3
18	1
19	3
20	0
21	3
22	4
23	3

24	4
25	3
26	4
27	4
28	4
29	4
30	3
31	3
32	4
33	3
34	2
35	2
36	2
37	3
38	2

average	2.92
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## Assessment Sheet for KPIs

<b>Course Name</b>	Simulation in Business	<b>KPI#</b>	B1
<b>Semester</b>	Spring	<b>Year</b>	2015
<b>Assessment method</b>			Be able to formulate, design, and implement a simulation solution for real problems or modeled ones in business areas such as scheduling and warehouse systems using simulation techniques with or without a simulation tool such as
<b>/Description</b>	Midterm Exam	<b>KPI Name</b>	Arena
<b>Results</b>			

(Q1, Q5, Q6)

<b>Student#</b>	<b>KPI Result out of 4</b>
1	3
2	1
3	3
4	2
5	2
6	3
7	3
8	3
9	2
10	2
11	2
12	2
13	3
14	1
15	2
16	2
17	3
18	2
19	2
20	2
21	2
22	2

23	3
24	4
25	3
26	4
27	4
28	4
29	3
30	2
31	4
32	4
33	2
34	3
35	2
36	2
37	2
38	1

average	2.53
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Seq.	StID	StName	Q1/7	Q2/3	Q3/4	Q4/2	Q5/9	Q6/5
1			7	2	2	0	4	2
2			0	0	0	0	1	0
3			0	3	4	2	8	5
4			0	2	3	2	4	2
5			3	2	1	0	4	0
6			3	2	4	2	5	3
7			4	3	4	1	6	2
8			4	2	4	2	7	3
9			4	1	2	1	5	0
10			3	1	4	2	7	0
11			2	0	4	2	5	2
12			3	1.5	1.5	2	4	3
13			3	0	3	2	7	3
14			1	2	4	2	1	0
15			6	0	4	0	3	0
16			2	0	4	0	5	2
17			6	1	3	2	5	4
18			7	0	0	1	1	0
19			0	2	4	0	5	4
20			4	0	0	0	5	1
21			3	2	4	0	4	2
22			2	2	4	2	5	0
23			5	1	4	0	6	4
24			6	2	4	2	9	2
25			1	1	4	1	9	1
26			6	2	4	2	8	3
27			3	2	4	1	9	4
28			4	2	4	2	7	5
29			4	1.5	4	2	5	3.5
30			3	0	3	2	4	0
31			6	1	4	1	6	4
32			4	2	4	2	8	4
33			4	1	4	1	4	1
34			6	0	4	0	7	0
35			2	0	4	0	4	0
36			2	1	3	0	6	2
37			2	0	4	1	6	0
38			0	1	2	0	4	1
Average								

Total/30

17

3

1

22

13

10

19

20

22

13

17

15

15

18

10

13

13

21

9

15

10

15

15

20

25

17

25

23

24

20

12

22

24

15

17

10

14

13

8

16.1053



## Simulation in Business

### Mapping KPI to SO

ILO (KPI)	SO
A1	a
A2	a
B1	b
B2	g
C1	d
C2	d

#### **ILO (KPI):**

On successfully completing the module, the students are expected to have gained good knowledge of:

##### A- Knowledge and understanding: Students should ...

A1: Be able to apply basic math and statistics including the differences between discrete event and continuous simulation models, important random numbers generators and frequency distributions. [SO a]

A2: List applications of simulation. [SO a]

##### B- Intellectual and specific skills: with ability to ...

B1: Be able to formulate, design, and implement a simulation solution for real problems or modeled ones in business areas such as scheduling and warehouse systems using simulation techniques with or without a simulation tool such as Arena. [SO b]

B2: Be capable of analyzing the results from simulation models. [SO g]

##### C- Transferable skills – with ability to

C1: Work in a group in order to implement a simulation project. [SO d]

C2: Present the final work (project) and make a demo. [SO f]

Computer Simulation in Business (1904442)  
Spring 2015 Exam  
Midterm Exam

ILO (KPI)	SO	KPI Result	Questions	Weight	Percentage
A1	a	2.92	2, 3, 4	9	30%
B1	b	2.53	1, 5, 6	21	70%
Total				30	100%