A Longitudinal Examination of SI-PASS: Participation, Perception, and Performance at ULiège

International Forum for Peer Learning and Support

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SI-PASS at ULiège

- Implemented in 2019: 5 years already

  - Longitudinal data

- 4 Faculties: Applied Sciences, Bioengineering, Psychology, and Sciences (Mathematics and Physics)

  - Cross-sectional data

- Qualitative and quantitative data from various sources

Research Questions

- Participation

    - How many students attended at least one meeting?

    - How many participants on average per meeting?

- Perception

    - What motivates students to participate?

    - Are there significant differences between faculties?

    - What elements stop students from participating?

    - What are students' suggestions to increase participation?

- Performance

    - Do students who participate obtain better grades than those who did not?

    - If so, how many meetings are required to see this difference?

Methodology

- Academic years 2019-2020, 2020-2021, 2021-2022

- Faculties of Applied Sciences, Bioengineering, Psychology, and Sciences

- Data Sources

    - Participation data from leaders' reports (quantitative)

    - Perception data from students' online questionnaires (qualitative)

    - Performance data from final exam marks (quantitative)

Participation

Faculty	Year & Semester	N Registration	N Participants	% Participation	N Participation	N Question naires	N Leaders	N Leader Listings	N Meetings	Average Minutes	N Theoretical Participation	% Actual Meetings	Average N Students per Meeting
Applied Sciences	19-20 S2	288	108	37.5	487	117	16	10	208	12480	3744	13	2.3
	20-21 S1	315	215	68.3	1146	63	15	12	195	11700	4095	28	5.9
	20-21 S2	358	164	45.8	825	90	10	7	130	7800	4654	17.7	6.3
	21-22 S1	222	208	93.7	1130	127	13	11	169	10140	2886	39.2	6.7
	21-22 S2	368	65	17.7	489	66	17	8	221	13260	4784	10.2	2.2
Bioengineering	19-20 S1	276	113	40.9	515	15	16	12	208	12480	3588	14.4	2.5
	20-21 S1	238	140	58.8	655	30	19	8	247	14820	3094	21.2	2.7
	20-21 S2	260	90	34.6	327	55	13	10	169	10140	3380	9.7	1.9
	21-22 S1	208	92	44.2	480	46	15	15	195	11700	2704	17.8	2.5
	21-22 S2	218	89	40.8	311	22	10	9	130	7800	2834	11	2.4
Psychology	20-21 S2	293	247	84.3	1777	161	36	29	468	28080	3809	45.7	3.8
	21-22 S1	303	253	83.5	1292	141	28	22	364	21840	3939	32.8	3.5
	21-22 S2	64	28	43.8	246	45	6	6	78	4680	832	29.6	3.2
Sciences	20-21 S1	45	15	33.3	102	16	3	3	39	2340	585	17.4	2.6
	21-22 S1	68	35	51.5	170	20	3	3	39	2340	884	19.2	4.4
	21-22 S2	171	64	37.4	408	31	9	9	117	7020	2223	18.4	3.5
Total	**6**	**3695**	**1926**	**52**	**10360**	**1045**	**229**	**174**	**2977**	**178620**	**48035**	**21.6**	**3.5**

Status Report for European SI/PASS/PAL-Programmes

Tuesday, 12 April 2022

Based on the estimate that 75 HEIs have active SI/PASS/PAL programmes:

- Approximately 7 250 SI/PASS/PAL-leaders are employed each year

- On average the leaders hold about **15 sessions** during an academic year being **0.5-3 hours** in length

- The number of students having access to SI/PASS/PAL per year is ~135 400

- The number of students attending at least one time per year is ~76 800 (**57 %** of those having access)

- The average attendance on SI/PASS/PAL sessions is ~**31 %**

- The average number of students at a session is ~**10**

- The number of contact hours is ~780 000 during an academic year (contact hours are the total number of hours students visit sessions during a year)

Perception
Motivation

	Applied Sciences	Bioengineering	Psychology	Sciences	**Total**
Learn, Understand, Ask Questions	359	186	220	82	**847**
Socializing	73	21	91	4	**189**
Ambiance	27	19	27	11	**84**
Student Leaders	27	17	20	13	**77**
Forced Study	22	16	26	0	**64**
Other Approach	34	12	9	4	**59**
Emotional Support	5	5	22	1	**33**
Curiosity	6	4	7	0	**17**

Perception
Motivation

$X^2(21) = 97.65$, *p* < .001, $V_{Cramer} = 0.15$

- Applied Sciences: "Other Approach"

- Bioengineering: "Learn, Understand, Ask Questions"

- Psychology: "Emotional Support", "Socializing" and "Forced Study"

- Sciences: "Learn, Understand, Ask Questions", "Student Leaders", and "Ambiance"

Perception

Withdrawal

	Applied Sciences	Bioengineering	Psychology	Sciences	**Total**
Lack of Time	23	15	13	4	**55**
Useless	12	14	11	3	**40**
Didn't know	4	1	22	1	**28**
No Interest	2	6	1	0	**9**
Already tried	3	2	0	0	**5**
Absent Leader	0	1	3	0	**4**
Stress or Timidity	3	0	0	0	**3**

Perception
Suggestions

	Applied Sciences	Bioengineering	Psychology	Sciences	Total
Better Schedule	30	24	25	7	**86**
Better Organization	36	19	15	1	**71**
No Virtual Meetings	9	6	10	2	**27**
More Participants	9	2	2	2	**15**
More Meetings	0	2	1	0	**3**
More Information	2	0	1	0	**3**

Performance
Improvement

Faculty	Academic Year & Semester	SI-PASS			Non-SI-PASS			t	p	Cohen's d
		N	M	SD	N	M	SD			
Applied Sciences	19-20 S2	108	8.97	.45	318	7.9	.23	2.39	**.02**	0.23
	20-21 S1	192	7.07	.32	391	7.03	.20	1.85	.60	0.13
	20-21 S2	164	7.76	.50	386	6.66	.26	0.82	.41	0.06
	21-22 S1	199	7.86	.34	368	6.49	.20	4.07	**<.001**	0.29
	21-22 S2	63	11.86	.64	456	6.8	.24	7.86	**<.001**	0.99
Bioengineering	19-20 S1	111	8.62	.37	343	7.23	.19	2.53	**.01**	0.24
	20-21 S1	127	9.77	.41	251	6.54	.24	7.91	**<.001**	0.70
	20-21 S2	82	8.99	.45	300	6.75	.26	4.96	**<.001**	0.55
	21-22 S1	88	8.52	.45	244	4.79	.25	8.35	**<.001**	0.89
	21-22 S2	86	6.56	.49	272	3.73	.22	5.8	**<.001**	0.63
Psychology	20-21 S2	185	11.81	.24	836	10.53	.14	5.32	**<.001**	0.39
	21-22 S1	230	7.73	.41	1785	3.66	.12	10.01	**<.001**	0.66
	21-22 S2	25	11.81	.24	665	10.45	.30	5.32	**<.001**	0.39
Sciences	20-21 S1	14	6.64	1.88	70	4.9	.60	0.93	.37	0.25
	21-22 S1	34	5.59	.75	80	4.53	.43	1.4	.17	0.24
	21-22 S2	64	5.56	.69	186	2.73	.31	4.09	**<.001**	0.51

Performance
Threshold

Faculty	Academic Year & Semester	No. Meetings	Estimate	STD	t	p
Applied Sciences	19-20 S2	6	4.98	2.1	2.38	.02
	20-21 S1	.	.	.	.	.
	20-21 S2	.	.	.	.	.
	21-22 S1	6	3.22	1.17	2.74	.006
	21-22 S2	8	4.62	2.28	2.02	.04
Bioengineering	19-20 S1	5	3.62	1.31	2.76	.006
	20-21 S1	5	3.32	1.05	3.15	.002
	20-21 S2	5	4.18	2.43	2.72	.04
	21-22 S1	5	4.27	2.07	2.06	.04
	21-22 S2	5	4.99	1.26	3.98	<.001
Psychology	20-21 S2	8	3.04	1.22	2.85	.04
	21-22 S1	7	4.61	2.05	2.25	.03
	21-22 S2	6	14.36	4.8	2.99	.006
Sciences	20-21 S1	.	.	.	.	.
	21-22 S1	.	.	.	.	.
	21-22 S2	8	8.88	1.89	4.71	<.001

Conclusions

- Participation

  - 52% of unique participants (57% for SRE)

  - 21.6% of actual participation (31% for SRE)

  - 3.5 students/meeting (10 for SRE)

- Perception

  - Motivation: better understanding of course material and socialisation

  - Withdrawal: lack of time and perceived uselessness

  - Suggestions: need for better schedule and organisation

- Performance

  - Significant increase in academic performance (±6 meetings)

  - Voluntary participation?

  - Generalisation to other Universities?

Thank you!

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