

The relationship between highimpact educational practices and Learning Approaches at University

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Learning approaches and high-impact educational practices at university: a proposal for a reduced scale of the student process questionnaire

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MAIN OBJECTIVE

To analyse the relationship between **Learning approaches** (Student Process Questionnaire, SPQ Biggs) and **high-impact educational practices** (HIEPs) in a sample of first and final-year university students of different degrees.





THEORETICAL FRAMEWORK



Involves a thorough understanding of the content and seeking connections between different areas of study Focuses on passing with minimal effort and memorizing content





BACKGROUND

1976 Marton & Säljo 1978 Biggs Entwistle & Ramsdem 1983 1990 Kember & Gow 1996 **Trigwell & Prosser** 2006 Torre 2010 Baeten et al. 2014 Monroy & Hernández-Pina 2016 Freiberg & Fernández 2017 Soler et al. 2018 Soler et al. 2020 Nogueira dos Santos & Gomes 2020 Zakariya et al. 2021 Takase & Yoshida 2022 **Barboyon & Gargallo** 2022 Zakariya & Massimiliano

Numerous studies have since reflected an

interest in this field of research



BACKGROUND

The literature reviewed indicate that learning approaches can be influenced by various factors:



THE PERCEPTION OF EXTRACURRICULAR ACTIVITIES

SELF-EFFICACY

LEARNING ENVIRONMENT

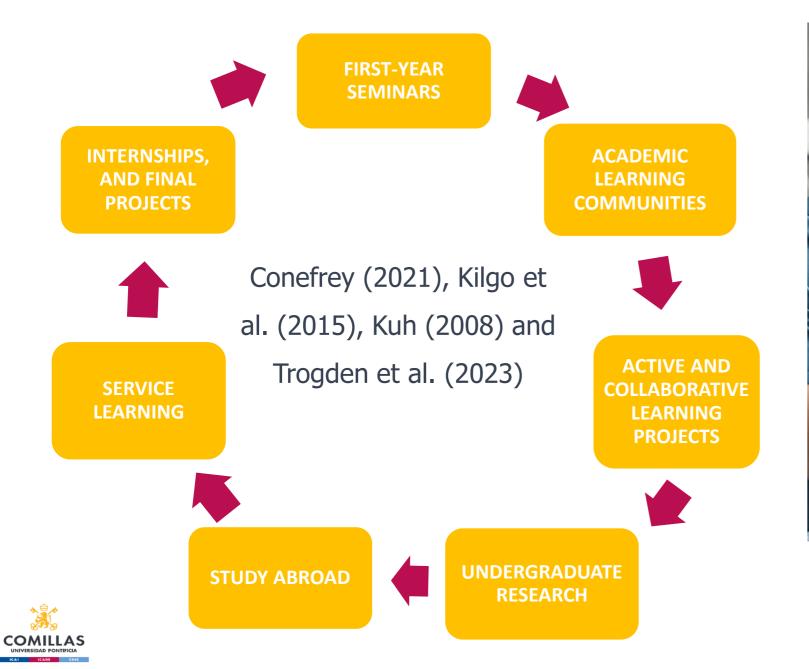
WORKLOAD

Monroy & Hernández-Pina (2014): contextual factors are linked to learning approaches to improve education quality.





HIGH IMPACT EDUCATIONAL PRACTICES (HIEP)







HIGH IMPACT EDUCATIONAL PRACTICES (HIEP)

HIEPs are successful because (Kuh, 2008):

- ✓ Demand effort and determination to encourage communication with peers and teachers.
- ✓ Expose students to diverse ideas and people.
- ✓ Provide opportunities for learning both inside and outside the classroom.







METHOD



- Non-experimental, cross-sectional design
- 893 undergraduate students





PARTICIPANTS

Study area	Man	Woman	Total
Human and Social Sciences	50	205	255
	19.6%	80.4%	100.0%
	18.5%	32.9%	28.6%
Translation, Communication and I.R.		84	102
	17.6%	82.4%	100.0%
	6.7%	13.5%	11.4%
Nursing and Physiotherapy		65	79
5 7 17	17.7%	82.3%	100.0%
	5.2%	10.4%	8.8%
Law		101	148
	31.8%	68.2%	100.0%
	17.4%	16.2%	16.6%
Economic Sciences	91		230
	39.6%	60.4%	100.0%
	33.7%	22.3%	25.8%
Engineering	50	29	79
5 5	63.3%	36.7%	100.0%
	18.5%	4.7%	8.8%
Total	270	623	893
	30.2%	69.8%	100.0%
	100.0%	100.0%	100.0%

Table 1. Distribution of the total sample.





INSTRUMENTS

Spanish short version of the Student
Process Questionnaire (R-SPQ-2F) by
Biggs et al. (2001) carried out by Torre
(2006).

- The impact of HIEPs on professional and personal development was assessed on a scale of 1 (not at all) to 4 (very much).

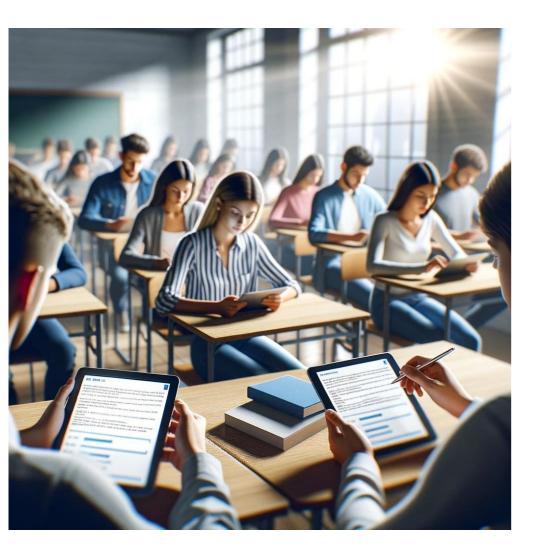
- Additional items (academic self-concept, selfefficacy, study hours)







PROCEDURE



The students were selected through nonprobabilistic convenience sampling

The instruments were administered to all students in the first and last years





Personal development	Internships	Service learning	Subjects	International Stays	Conferences
Mean	3.18	2.55	3.06	3.58	2.70
SD	0.807	0.945	0.670	0.770	0.783
Professional development					
Mean	3.26	2.49	3.32	3.48	2.87
SD	0.812	0.921	0.639	0.799	0.761





		impact on evelopment	Perceived impact on professional development		
	Surface Approach	Deep Approach	Surface Approach	Deep Approach	
Internship	199**	.206**	167**	.237**	
Service Learning	232**	.271**	273**	.319**	
Subjects of my Degree	238**	.387**	249**	.293**	
International stays	149*	.103	127	.129*	
Conferences and seminars	248**	.375**	256**	.330**	





	Study area	Ν	Mean	SD	F	Eta ²	Prev
Surface approach	Social Sciences	254	2.50	0.646	8.11***	0.044	Law
	Translation, Communication and IR	102	2.57	0.755			Economic Science
	Nursing and Physiotherapy	79	2.21	0.629			
	Law	148	2.71	0.714			
	Economic Sciences	230	2.70	0.699			
	Engineering	79	2.55	0.583			
Deep approach	Social Sciences	254	3.45	0.631	8.21***	0.044	Nursing and Physiotherapy
	Translation, Communication and IR	102	3.40	0.753			Social Sciences
	Nursing and Physiotherapy	79	3.50	0.604			
	Law	148	3.17	0.670			
	Economic Sciences	230	3.21	0.682			
	Engineering	79	3.07	0.614			

*p<0.05; ** p<0.01; ***p<0.001







Table 7. Correlations between approaches and learning-related variables N = 892.

	Surface approach	Deep approach
Deep approach	-0.487***	-
Study hours	-0.216***	0.183***
Academic self-concept	-0.190***	0.293***
Self-efficacy	-0.191***	0.213***





CONCLUSION AND DISCUSSION



- The surface approach exhibits negative associations.
- The adoption of learning approaches is relationated with various contextual and cultural factors
- The paper underscores the significance of incorporating extracurricular activities, into curricula.







IMPLICATIONS AND LIMITATIONS

The study is limited to one university in Spain, and future research could broaden the scope to include diverse higher education institutions from different regions and countries.







FUTURE RESEARCH

WHAT PATTERNS OF LEARNERS DO WE HAVE IN TERMS OF LEARNING REGULATION?







QUESTIONS FOR AUDIENCE



What can we do in universities so that there is a better balance between curricular and extracurricular activities?

How can we encourage students to do more extracurricular activities that enrich their professional and personal development?

Would it be important to include the time allotted to the subject's activities, such as attending conferences or seminars that enrich the knowledge acquired?

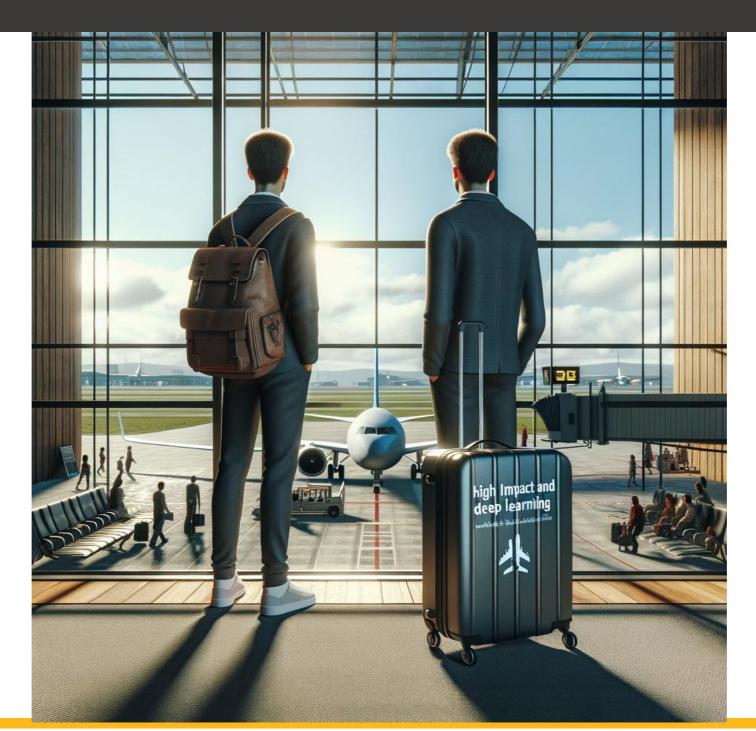
QUESTIONS FOR AUDIENCE



How could universities and educators use these results to promote a deeper learning approach among their students?

What high-impact activities do you have in your universities and how are they planned?

THANK



YOU



