

The contribution of the University of Salerno to physical education and sport sciences

AURELIO TOMMASETTI
University of Salerno, ITALY

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Abstract:

The study focuses on the scientific evolution of physical education at the University of Salerno. Its usefulness is in the ordinary usability for the necessary remodulation, caused by the constant adaptations of the degree courses in the contexts of departmental education and more generally of the university. The central indications of the Ministry of Education, University and Research and the assessments to which each university is subjected require an activity of monitoring, analysis and self-assessment of increasing quantitative level. Exercise and sport sciences enjoy facilities for the complex educational activity, due to the additional load of specific internships in the practical sport activities, but the degree program activation is facilitated for a lower requirement of the presence of professors compared to other study courses, and so, which leads to particular attention for the strategic development strategic lines of university. The target is to identify the evolutionary path, through a longitudinal survey, to highlight the process that determined the result. The results show an increase in the frequency of students compared to other places and a constant adaptation to the best progressive conditions of human resources in terms of consistency of the specific aims of the training activities with those of the degree courses. A strong educational character emerges that should be analyzed comparatively with the other universities. In conclusion, the study provides the university with the guarantees for an expansion and a subsequent development towards more performing and managerial addresses.

Key words: degree program, ECTS, exercise and sport sciences, assessment process, systemic process.

Introduction

The University of Salerno in recent years has received progressively positive evaluations for all areas: research, education and development through the provision of greater economic, financial, administrative and human resources, which sees it placed in a prominent position compared to the other territorial universities.

The contribution of exercise and sports sciences can therefore be found through an analysis of processes and results (D'elia, 2019, D'Isanto, 2019, Raiola et al., 2018). The focus of the study is on the analysis of general and characteristic longitudinal data and includes the complete period from the beginning of the course to the present, and concerns two degree courses among the four possible (code: L 22, LM 47, LM 67 and LM 68).

They are L 22 bachelor program in exercise, sport science and psychomotor education from the academic year 2014-15 and LM 68 master's program Sports sciences and technique from the academic year 2009-10 to present. The aim is to identify the significant (qualitative) and parametric elements (measures) useful for demonstrating progress in the results in order to deduce the contribution of Exercise and sport sciences program to the result of the university achieved.

Method

Longitudinal of inquiry study through archival research with a documentary approach by database of Agenzia Nazionale Valutazione Università e Ricerca (ANVUR) for L 22 bachelor program and master's program. Inquiry longitudinal study by Almalaurea database and statistical elaboration among student and statistical elaboration.

Results

Table 1. Changes concerning the LM-68 master's degree course over the years

	2009/ 2010	2010/ 2011	2011/ 2012	2012/ 2013	2013/ 2014	2014/ 2015	2015/ 2016	2016/ 2017	2017/ 2018	2018/ 2019	2019/2020
Characterizing activities											
M-EDF/02											
Technique and assess. of motor skills	20 ECTS	20 ECTS	20 ECTS	20 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS
Theory, techniques and didactics of sport for the disabled	-	-	-	-	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	*6 ECTS
The teaching of school sports games	-	-	-	-	-	-	-	-	-	-	*6 ECTS
M-EDF/01											
Methods and didactics. of Motor Activities	10 ECTS	10 ECTS	10 ECTS	10 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	-	-	-
Analysis of movement	--	--	--	--	--	--	--	--	12 ECTS	12 ECTS	12 ECTS
Planning and teaching of special motor activities	--	--	--	--	--	--	--	--	6 ECTS	6 ECTS	*6 ECTS
The epistemological and methodological foundations of the teaching of physical activities	--	--	--	--	--	--	--	--	6 ECTS	6 ECTS	*6 ECTS
	--	--	--	--	--	--	--	--	--	--	
MED/09											
Sport medicine	5 ECTS	5 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	*6 ECTS	*6 ECTS	*6 ECTS
MED/33											
Traumatology	2 ECTS	2 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	*6 ECTS	*6 ECTS	*6 ECTS
BIO/10											
Biochemistry	5 ECTS	5 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS
BIO/14											
Pharmacology	-	5 ECTS	-	-	-	-	-	-	-	-	-
BIO/09											
Physiology	-	-	-	-	-	-	-	-	-	-	-
M-PED/03											
Inclusive teaching design and Universal for Learning	5 ECTS	6 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS
M-PSI/04											
Develop. Psy. and Educ. Psy	5 ECTS	*6 ECTS	-	-	-	-	-	-	-	-	-
M-PSI/06											
Work and Organization psychology	-	*6 ECTS	-	-	-	-	-	-	-	-	-
SPS/08											
Sociology	5 ECTS	*6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS
IUS/01											
Private Law	-	*6 ECTS	-	-	-	-	-	-	-	-	-
Tot. Characterizing act.	57 ECTS	60 ECTS	66 ECTS	66 ECTS	66 ECTS	66 ECTS	66 ECTS	66 ECTS	66 ECTS	66 ECTS	66 ECTS
Related and additional activities											
M-PED/01											
General and social Pedagogy	5 ECTS	*6 ECTS	*6 ECTS	*6 ECTS	*6 ECTS	*6 ECTS	*6 ECTS	*8 ECTS	*6 ECTS	*6 ECTS	*6 ECTS

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MED/42 Hygiene	5 ECTS	*6 ECTS	8 ECTS	8 ECTS	8 ECTS	-	-	-	-	-	-
M-PED/04 Spermental pedagogy	-	-	-	-	-	8 ECTS	8 ECTS	*8 ECTS	*6 ECTS	*6 ECTS	*6 ECTS
M-EDF/01 Methods and didactics. of Motor Activities	-	-	*6 ECTS	*6 ECTS	*6 ECTS	*6 ECTS	*6 ECTS	6 ECTS	*6 ECTS	*6 ECTS	*6 ECTS
IUS/02 Comparative law of sports organizations	-	-	-	-	-	-	-	-	-	*6 ECTS	*6 ECTS
MED-50 Medical Sciences and techn.	3 ECTS	*6 ECTS	-	-	-	-	-	-	-	-	-
M-FIL/06 History of philosophy	-	*6 ECTS	-	-	-	-	-	-	-	-	-
M-DEA/01 Demo-ethno- anthropological disciplines	-	*6 ECTS	-	-	-	-	-	-	-	-	-
L-FIL-LET/10 Italian literature	-	*6 ECTS	-	-	-	-	-	-	-	-	-
CHIM/12 Chemistry of sports environment	-	*6 ECTS	-	-	-	-	-	-	-	-	-
Tot. ECTS additional activities	13 ECTS	18 ECTS	14 ECTS	14 ECTS	14 ECTS	14 ECTS	14 ECTS	14 ECTS	14 ECTS	12 ECTS	12 ECTS
Others training activities											
Chosen by the student	10 ECTS	12 ECTS	8 ECTS	8 ECTS	8 ECTS	8 ECTS	8 ECTS	8 ECTS	8 ECTS	8 ECTS	8 ECTS
Final exam	10 ECTS	10 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	10 ECTS	10 ECTS	10 ECTS
Language skills	5 ECTS	5 ECTS	-	-	-	-	-	-	4 ECTS	4 ECTS	4 ECTS
Computer skills	2 ECTS	2 ECTS	-	-	-	-	-	-	-	-	-
Internship	20 ECTS	10 ECTS	20 ECTS	20 ECTS	20 ECTS	20 ECTS	20 ECTS	20 ECTS	20 ECTS	20 ECTS	20 ECTS
Other useful knowledge for the world of work	3 ECTS	3 ECTS	-	-	-	-	-	-	-	-	-
Tot. ECTS Others activities	50 ECTS	42 ECTS	40 ECTS	40 ECTS	40 ECTS	40 ECTS	40 ECTS	40 ECTS	42 ECTS	42 ECTS	42 ECTS
Tot. ECTS	120	120	120	120	120	120	120	120	120	120	120

Table 2. Changes concerning the three-year degree course L-22 over the years

	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020
Basic activities						
M-EDF/01 Theory and method. of human movement	10 ECTS	10 ECTS	10 ECTS	10 ECTS	10 ECTS	10 ECTS
MED/42 Hygiene	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS
BIO/10 Biochemistry of Movement	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS
BIO/09 Physiology of Movement	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS
M-PSI/01 General Psychology	6 ECTS	6 ECTS	6 ECTS	6 ECTS	*6 ECTS	6 ECTS
Elem. of Psychological Functioning	-	-	-	-	*6 ECTS	-

M-PED/01						
General Pedagogy	10 ECTS	10 ECTS	10 ECTS	*10 ECTS	*10 ECTS	*10 ECTS
SECS-S/01						
Statistics	6 ECTS	6 ECTS	6 ECTS	-	-	-
Political Economy	-	-	-	6 ECTS	6 ECTS	6 ECTS
M-PED/04						
Planning and evaluation of training interventions	-	-	-	*10 ECTS	*10 ECTS	*10 ECTS
Tot. ECTS Basic activities	50 ECTS	50 ECTS	50 ECTS	50 ECTS	50 ECTS	50 ECTS
Characterizing activities						
M-EDF/02						
Method. and didactics of motor activities	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS
Science of sport	-	-	-	-	-	6 ECTS
M-EDF/01						
Didact. of Psychomotor education	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS
MED/39						
Child neuropsychiatry	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS
M-PED/03						
Found. of General Education	6 ECTS	6 ECTS	6 ECTS	6 ECTS	*6 ECTS	*6 ECTS
Special education	10 ECTS	10 ECTS	10 ECTS	10 ECTS	10 ECTS	10 ECTS
Special education and did. of inclusion	-	-	-	-	*6 ECTS	*6 ECTS
M-STO/04						
Sport history	6 ECTS	6 ECTS	6 ECTS	*6 ECTS	*6 ECTS	*6 ECTS
IUS/01						
Private law	-	-	-	*6 ECTS	*6 ECTS	*6 ECTS
BIO/16						
Anatomy	9 ECTS	9 ECTS	9 ECTS	9 ECTS	9 ECTS	9 ECTS
Tot. ECTS Characterizing act.	61 ECTS	61 ECTS	61 ECTS	67 ECTS	67 ECTS	67 ECTS
Related and additional activities						
SPS/08						
Sociology	6 ECTS	6 ECTS	6 ECTS	*6 ECTS	*6 ECTS	*6 ECTS
M-PED/04						
Planning and evaluation of training interventions	12 ECTS	12 ECTS	12 ECTS	-	-	-
Assessment and certification of skills	-	-	-	*6 ECTS	*6 ECTS	*6 ECTS
CHIM/12						
Chemistry	6 ECTS	6 ECTS	6 ECTS	*6 ECTS	*6 ECTS	*6 ECTS
M-PSI/08						
Clinical Psychology	-	-	-	*6 ECTS	*6 ECTS	*6 ECTS
Tot. ECTS additional activities	24 ECTS	24 ECTS	24 ECTS	18 ECTS	18 ECTS	18 ECTS
Others training activities						
Chosen by the student	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS	12 ECTS
Final exam	4 ECTS	4 ECTS	4 ECTS	3 ECTS	3 ECTS	3 ECTS
Language skills	2 ECTS	2 ECTS	2 ECTS	5 ECTS	5 ECTS	5 ECTS
Computer skills	2 ECTS	2 ECTS	2 ECTS	-	-	-
Internship	25 ECTS	25 ECTS	25 ECTS	25 ECTS	25 ECTS	25 ECTS
Tot. ECTS Others activities	45 ECTS	45 ECTS	45 ECTS	45 ECTS	45 ECTS	45 ECTS
Tot. ECTS	180	180	180	180	180	180

Physical and sports activities sciences (L-22) all universities from 2013-14 to 2019-20

V1 with V4 shows a good correlation 0.710

V2 with V3 shows a high correlation 0.826

V4 with V1, V6 and V7 shows a good correlation from 0.710, 0.696 and 0.728

V5 with V6 shows a high correlation 0.898

V7 with V4 and V6 shows a good correlation of 0.7

Physical and sports activities sciences (L-22) universities with a limited number from 2013-14 to 2019-2020

Correlations		VAR00001	VAR00002	VAR00003	VAR00004	VAR00005	VAR00006	VAR00007
VAR00001	Pearson correlation	1	,568**	,324	,594**	,469**	,465**	,441*
	Sign. (with two tails)		,001	,070	,000	,008	,008	,015
	N	33	32	32	31	31	31	30
VAR00002	Pearson correlation	,568**	1	,838**	,592**	,427*	,410*	,459*
	Sign. (with two tails)	,001		,000	,000	,017	,022	,011
	N	32	32	32	31	31	31	30
VAR00003	Pearson correlation	,324	,838**	1	,723**	,549**	,525**	,609**
	Sign. (with two tails)	,070	,000		,000	,001	,002	,000
	N	32	32	32	31	31	31	30
VAR00004	Pearson correlation	,594**	,592**	,723**	1	,827**	,810**	,626**
	Sign. (with two tails)	,000	,000	,000		,000	,000	,000
	N	31	31	31	31	31	31	30
VAR00005	Pearson correlation	,469**	,427*	,549**	,827**	1	,975**	,731**
	Sign. (with two tails)	,008	,017	,001	,000		,000	,000
	N	31	31	31	31	31	31	30
VAR00006	Pearson correlation	,465**	,410*	,525**	,810**	,975**	1	,757**
	Sign. (with two tails)	,008	,022	,002	,000	,000		,000
	N	31	31	31	31	31	31	30

Correlations		VAR00001	VAR00002	VAR00003	VAR00004	VAR00005	VAR00006	VAR00007
VAR00001	Pearson correlation	1	,460**	,214	,710**	,444**	,361*	,588**
	Sign. (with two tails)		,006	,224	,000	,008	,033	,000
	N	35	34	34	33	35	35	35
VAR00002	Pearson correlation	,460**	1	,826**	,465**	,294	,482**	,322
	Sign. (with two tails)	,006		,000	,006	,091	,004	,063
	N	34	34	34	33	34	34	34
VAR00003	Pearson correlation	,214	,826**	1	,571**	,359*	,576**	,409*
	Sign. (with two tails)	,224	,000		,001	,037	,000	,016
	N	34	34	34	33	34	34	34
VAR00004	Pearson correlation	,710**	,465**	,571**	1	,613**	,696**	,728**
	Sign. (with two tails)	,000	,006	,001		,000	,000	,000
	N	33	33	33	33	33	33	33
VAR00005	Pearson correlation	,444**	,294	,359*	,613**	1	,898**	,597**
	Sign. (with two tails)	,008	,091	,037	,000		,000	,000
	N	35	34	34	33	36	36	35
VAR00006	Pearson correlation	,361*	,482**	,576**	,696**	,898**	1	,708**
	Sign.(with two tails)	,033	,004	,000	,000	,000		,000
	N	35	34	34	33	36	36	35
VAR00007	Pearson correlation	,588**	,322	,409*	,728**	,597**	,708**	1
	Sign. (with two tails)	,000	,063	,016	,000	,000	,000	
	N	35	34	34	33	35	35	35

VAR00007	Pearson correlation	,441*	,459*	,609**	,626**	,731**	,757**	1
	Sign. (with two tails)	,015	,011	,000	,000	,000	,000	
	N	30	30	30	30	30	30	30

V2 with V3 shows a high correlation 0.838

V4 with V5 and V6 shows a high correlation 0.827 and 0.810

V5 with V4 shows a high correlation 0.827 and with V6 is very high 0.975

V7 with V5 and V6 shows a good correlation from 0.731 and 0.757

Physical activity and sports sciences (L-22) universities without a number open from 2013-14 to 2019-20

Correlations		VAR00001	VAR00002	VAR00003	VAR00004	VAR00005	VAR00006	VAR00007
VAR00001	Pearson correlation	1	,999**	,999**	,987**	-,403	-,438	,795
	Sign. (with two tails)		,000	,000	,002	,501	,461	,108
	N	5	5	5	5	5	5	5
VAR00002	Pearson correlation	,999**	1	1,000**	,993**	-,421	-,467	,787
	Sign. (with two tails)	,000		,000	,001	,480	,428	,114
	N	5	5	5	5	5	5	5
VAR00003	Pearson correlation	,999**	1,000**	1	,993**	-,422	-,469	,786
	Sign. (with two tails)	,000	,000		,001	,479	,425	,115
	N	5	5	5	5	5	5	5
VAR00004	Pearson correlation	,987**	,993**	,993**	1	-,462	-,537	,759
	Sign. (with two tails)	,002	,001	,001		,433	,351	,137
	N	5	5	5	5	5	5	5
VAR00005	Pearson correlation	-,403	-,421	-,422	-,462	1	,932*	-,710
	Sign. (with two tails)	,501	,480	,479	,433		,021	,179
	N	5	5	5	5	5	5	5
VAR00006	Pearson correlation	-,438	-,467	-,469	-,537	,932*	1	-,610
	Sign. (with two tails)	,461	,428	,425	,351	,021		,275
	N	5	5	5	5	5	5	5
VAR00007	Pearson correlation	,795	,787	,786	,759	-,710	-,610	1
	Sign. (with two tails)	,108	,114	,115	,137	,179	,275	
	N	5	5	5	5	5	5	5

V1 with V2 and V3 shows a maximum positive correlation 0.999 and with V4 a very high correlation 0.987

V2 with V3 shows a maximum positive correlation 1,000 and with V4 a very high correlation 0.993

V3 with V4 shows a very high correlation 0.993

V5 with V4 shows a very high correlation 0.932

V7 shows a good correlation with all the variables

Sciences and techniques of preventive and adapted activities (LM-67) all the universities from the years 2013-14 to 2019-20

Correlations		VAR00001	VAR00002	VAR00003	VAR00004	VAR00005	VAR00006	VAR00008	VAR00009
VA R00 001	Pearson correlation	1	,949**	,347	,434*	,606**	,620**	,489**	°
	Sign. (with two tails)		,000	,056	,015	,000	,000	,005	.
	N	31	31	31	31	31	31	31	0
VA R00 002	Pearson correlation	,949**	1	,393*	,488**	,679**	,675**	,570**	°
	Sign. (with two tails)	,000		,029	,005	,000	,000	,001	.
	N	31	31	31	31	31	31	31	0
VA R00 003	Pearson correlation	,347	,393*	1	,903**	,682**	,480**	,199	°
	Sign. (with two tails)	,056	,029		,000	,000	,006	,283	.
	N	31	31	31	31	31	31	31	0
VA R00 004	Pearson correlation	,434*	,488**	,903**	1	,800**	,599**	,368*	°
	Sign. (with two tails)	,015	,005	,000		,000	,000	,042	.
	N	31	31	31	31	31	31	31	0
VA R00 005	Pearson correlation	,606**	,679**	,682**	,800**	1	,811**	,546**	°
	Sign. (with two tails)	,000	,000	,000	,000		,000	,001	.
	N	31	31	31	31	31	31	31	0
VA R00 006	Pearson correlation	,620**	,675**	,480**	,599**	,811**	1	,729**	°
	Sign. (with two tails)	,000	,000	,006	,000	,000		,000	.
	N	31	31	31	31	31	31	31	0
VA R00 008	Pearson correlation	,489**	,570**	,199	,368*	,546**	,729**	1	°
	Sign. (with two tails)	,005	,001	,283	,042	,001	,000		.
	N	31	31	31	31	31	31	31	0

VA	Pearson correlation:	.	.	.	.	.	.	.	.
R00		.	.	.	.	.	.	.	.
009	Sign. (with two tail	.	.	.	.	.	.	.	.
N		0	0	0	0	0	0	0	0

c. Calculation impossible to perform because at least one of the variables is constant.

V3 with V4 shows a high correlation 0.903

V4 with V3 and V5 shows a high correlation 0.903 and 0.800

V5 with V4 and V6 shows a high correlation 0.800 and 0.811

V6 with V4 shows a high maximum correlation 0.811 and with V8 a good correlation 0.729

Sciences and techniques of preventive and adapted activities (LM-67) universities with a limited number from the years 2013-14 to 2019-20

Correlations	VAR0000	VAR0000	VAR0000	VAR0000	VAR0000	VAR0000	VAR0000	VAR0000
	1	2	3	4	5	6	8	9
VAR0 Pearson correlation								
0001	1	-,015	-,010	,132	,571*	,584*	,412	. ^b
Sign. (with two tails)								
N	14	13	14	14	14	14	14	0
VAR0 Pearson correlation								
0002	-,015	1	,381	,388	-,056	,144	,131	. ^b
Sign. (with two tails)								
N	13	13	13	13	13	13	13	0
VAR0 Pearson correlation								
0003	-,010	,381	1	,409	,387	,046	,167	. ^b
Sign. (with two tails)								
N	14	13	15	15	15	15	15	0
VAR0 Pearson correlation								
0004	,132	,388	,409	1	,184	,599*	-,203	. ^b
Sign. (with two tails)								
N	14	13	15	16	16	16	16	0
VAR0 Pearson correlation								
0005	,571*	-,056	,387	,184	1	,164	,633**	. ^b
Sign. (with two tails)								
N	14	13	15	16	17	16	17	0
VAR0 Pearson correlation								
0006	,584*	,144	,046	,599*	,164	1	,175	. ^b
Sign. (with two tails)								
N	14	13	15	16	16	16	16	0
VAR0 Pearson correlation								
0008	,412	,131	,167	-,203	,633**	,175	1	. ^b
Sign. (with two tails)								
N	14	13	15	16	17	16	17	0
VAR0 Pearson correlation								
0009	. ^b	. ^b	. ^b	. ^b	. ^b	. ^b	. ^b	. ^b
Sign. (with two tails)								
N	0	0	0	0	0	0	0	0

b. Calculation impossible to perform because at least one of the variables is constant

V1 with V5 and V6 shows a fair correlation 0.571 and 0.584

V4 with V6 shows a fair correlation 0.599

V5 with V8 shows a good correlation 0.633

Sciences and techniques of preventive and adapted activities (LM-67) open-ended universities from 2013-14 to 2019-20.

Correlations	VAR00001	VAR00002	VAR00003	VAR00004	VAR00005	VAR00006	VAR00007
VAR00001 Correlazione di Pearson	1	,926**	,155	,192	,259	,380	,260
Sign. (a due code)		,000	,553	,460	,316	,132	,313
N	17	17	17	17	17	17	17
VAR00002 Correlazione di Pearson	,926**	1	,220	,298	,371	,503*	,346
Sign. (a due code)	,000		,396	,245	,143	,039	,173
N	17	17	17	17	17	17	17
VAR00003 Correlazione di Pearson	,155	,220	1	,898**	,568*	,435	,186
Sign. (a due code)	,553	,396		,000	,017	,081	,475
N	17	17	17	17	17	17	17

VAR00004	Correlazione di Pearson	,192	,298	,898**	1	,659**	,575*	,413
	Sign. (a due code)	,460	,245	,000		,004	,016	,099
	N	17	17	17	17	17	17	17
VAR00005	Correlazione di Pearson	,259	,371	,568*	,659**	1	,971**	,682**
	Sign. (a due code)	,316	,143	,017	,004		,000	,003
	N	17	17	17	17	17	17	17
VAR00006	Correlazione di Pearson	,380	,503*	,435	,575*	,971**	1	,709**
	Sign. (a due code)	,132	,039	,081	,016	,000		,001
	N	17	17	17	17	17	17	17
VAR00007	Correlazione di Pearson	,260	,346	,186	,413	,682**	,709**	1
	Sign. (a due code)	,313	,173	,475	,099	,003	,001	
	N	17	17	17	17	17	17	17

V1 with V2 shows a very high correlation 0.926

V3 with V4 shows a high correlation 0.898 and with V5 a fair co-correlation 0.568

V4 with V3 shows a high correlation 0.893 and with V5 a good correlation 0.659

V5 with V6 shows a very high correlation 0.971 and with V7 a good correlation 0.682

V6 with V8 shows a good correlation 0.709

Sports sciences and techniques (LM-68) all universities from 2013-14 to 2019-20

Correlations		VAR00015	VAR00016	VAR00017	VAR00018	VAR00019	VAR00022	VAR00023
VAR00015	Pearson correlation	1	,966**	,937**	,943**	,925**	,901**	,753**
	Sign. (with two tails)		,000	,000	,000	,000	,000	,000
	N	17	17	17	17	17	17	17
VAR00016	Pearson correlation	,966**	1	,960**	,976**	,961**	,953**	,857**
	Sign. (with two tails)	,000		,000	,000	,000	,000	,000
	N	17	17	17	17	17	17	17
VAR00017	Pearson correlation	,937**	,960**	1	,985**	,964**	,975**	,801**
	Sign. (with two tails)	,000	,000		,000	,000	,000	,000
	N	17	17	17	17	17	17	17
VAR00018	Pearson correlation	,943**	,976**	,985**	1	,981**	,973**	,870**
	Sign. (with two tails)	,000	,000	,000		,000	,000	,000
	N	17	17	17	17	17	17	17
VAR00019	Pearson correlation	,925**	,961**	,964**	,981**	1	,979**	,897**
	Sign. (with two tails)	,000	,000	,000	,000		,000	,000
	N	17	17	17	17	17	17	17
VAR00022	Pearson correlation	,901**	,953**	,975**	,973**	,979**	1	,880**
	Sign. (with two tails)	,000	,000	,000	,000	,000		,000
	N	17	17	17	17	17	17	17
VAR00023	Pearson correlation	,753**	,857**	,801**	,870**	,897**	,880**	1
	Sign. (with two tails)	,000	,000	,000	,000	,000	,000	
	N	17	17	17	17	17	17	17

V15 shows a very high correlation with all the variables and with V23 a good correlation 0.753

V16 shows a very high correlation with all the variables and with V23 a high correlation 0.857

V17 shows a very high correlation with all the variables and with V23 a high correlation 0.801

All the variables from V15 to V22 show a very high correlation, while V23 with V15 alone shows a good correlation 0.753

Sports sciences and techniques (LM-68) Number of universities closed from 2013-14 to 2019-20

Correlations		VAR00015	VAR00016	VAR00017	VAR00018	VAR00019	VAR00022	VAR00023
VAR00015	Correlazione di Pearson	1	,841**	,690**	,640**	,573*	,543*	,339
	Sign. (a due code)		,000	,002	,006	,016	,024	,182
	N	17	17	17	17	17	17	17
VAR00016	Correlazione di Pearson	,841**	1	,841**	,806**	,756**	,798**	,560*
	Sign. (a due code)	,000		,000	,000	,000	,000	,019
	N	17	17	17	17	17	17	17
VAR00017	Correlazione di Pearson	,690**	,841**	1	,992**	,937**	,868**	,627**
	Sign. (a due code)	,002	,000		,000	,000	,000	,007
	N	17	17	17	17	17	17	17

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VAR00018	Correlazione di Pearson	,640**	,806**	,992**	1	,948**	,879**	,648**
	Sign. (a due code)	,006	,000	,000		,000	,000	,005
	N	17	17	17	17	17	17	17
VAR00019	Correlazione di Pearson	,573*	,756**	,937**	,948**	1	,942**	,715**
	Sign. (a due code)	,016	,000	,000	,000		,000	,001
	N	17	17	17	17	17	17	17
VAR00022	Correlazione di Pearson	,543*	,798**	,868**	,879**	,942**	1	,726**
	Sign. (a due code)	,024	,000	,000	,000	,000		,001
	N	17	17	17	17	17	17	17
VAR00023	Correlazione di Pearson	,339	,560*	,627**	,648**	,715**	,726**	1
	Sign. (a due code)	,182	,019	,007	,005	,001	,001	
	N	17	17	17	17	17	17	17

V15 with V16 shows a high correlation 0.841

V16 with V17 shows a high correlation 0.841 and with V18, V19 and V22 a good correlation 0.806, 0.756, 0.798

V17 with V18 has a very high correlation 0.992 and with V19 and V22 a high correlation 0.937, 0.868

V18 with V19 and V22 shows a high correlation 0.948, 0.879

V19 with V22 shows a high correlation 0.942

V23 with V19 and V22 shows a good correlation 0.715, 0.726

Sports sciences and techniques (LM-68) Open-ended universities from 2013-14 to 2019-20

Correlations		VAR00025	VAR00026	VAR00027	VAR00028	VAR00029	VAR00030	VAR00031
VAR00025	Pearson correlation	1	,980**	,903**	,929**	,885**	,893**	,805**
	Sign. (with two tails)		,000	,000	,000	,000	,000	,000
	N	17	17	17	17	17	17	17
VAR00026	Pearson correlation	,980**	1	,948**	,957**	,917**	,926**	,776**
	Sign. (with two tails)	,000		,000	,000	,000	,000	,000
	N	17	17	17	17	17	17	17
VAR00027	Pearson correlation	,903**	,948**	1	,993**	,950**	,959**	,786**
	Sign. (with two tails)	,000	,000		,000	,000	,000	,000
	N	17	17	17	17	17	17	17
VAR00028	Pearson correlation	,929**	,957**	,993**	1	,951**	,957**	,812**
	Sign. (with two tails)	,000	,000	,000		,000	,000	,000
	N	17	17	17	17	17	17	17
VAR00029	Pearson correlation	,885**	,917**	,950**	,951**	1	,994**	,870**
	Sign. (with two tails)	,000	,000	,000	,000		,000	,000
	N	17	17	17	17	17	17	17
VAR00030	Pearson correlation	,893**	,926**	,959**	,957**	,994**	1	,853**
	Sign. (with two tails)	,000	,000	,000	,000	,000		,000
	N	17	17	17	17	17	17	17
VAR00031	Pearson correlation	,805**	,776**	,786**	,812**	,870**	,853**	1
	Sign. (with two tails)	,000	,000	,000	,000	,000	,000	
	N	17	17	17	17	17	17	17

• All the variables from V25 to V30 show a high and very high correlation, while the V31, with all the others, a good correlation

Sports sciences and management (LM-47) all the universities from 2013-14 to 2019-20

Correlations		VAR00015	VAR00016	VAR00017	VAR00018	VAR00019	VAR00020	VAR00021
VAR00015	Pearson correlation	1	,924**	1,000**	,571	,281	,496	,227
	Sign. (with two tails)		,008	,000	,237	,589	,317	,665
	N	6	6	6	6	6	6	6
VAR00016	Pearson correlation	,924**	1	,924**	,613	,397	,595	,412
	Sign. (with two tails)	,008		,008	,196	,436	,213	,416
	N	6	6	6	6	6	6	6
VAR00017	Pearson correlation	1,000**	,924**	1	,571	,281	,496	,227
	Sign. (with two tails)	,000	,008		,237	,589	,317	,665
	N	6	6	6	6	6	6	6
VAR00018	Pearson correlation	,571	,613	,571	1	,847*	,898*	,805
	Sign. (with two tails)	,237	,196	,237		,033	,015	,053
	N	6	6	6	6	6	6	6
VAR00019	Pearson correlation	,281	,397	,281	,847*	1	,971**	,981**

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VAR00020	Sign. (with two tails)	,589	,436	,589	,033	,001	,001
	N	6	6	6	6	6	6
	Pearson correlation	,496	,595	,496	,898*	,971**	1
VAR00021	Sign. (with two tails)	,317	,213	,317	,015	,001	,004
	N	6	6	6	6	6	6
	Pearson correlation	,227	,412	,227	,805	,981**	,947**	1
	Sign. (with two tails)	,665	,416	,665	,053	,001	,004
	N	6	6	6	6	6	6

V15 with V16 shows a high correlation 0.924 and with V17 has a perfect positive correlation 1

V16 with V17 shows a high correlation 0.924

V18 with V19, V20 and V21 shows a good correlation 0.847, 0.898, 0.805

V19 with V20 and V21 shows a very high correlation 0.971, 0.981

V20 with V21 shows a high correlation 0.947

Sports sciences and management (LM-47) the number of closed universities from 2013-14 to 2019-2020

Correlations		VAR00015	VAR00016	VAR00017	VAR00018	VAR00019	VAR00020	VAR00021
VAR00015	Pearson correlation	1	,971**	1,000**	,985**	,825*	,825*	,833*
	Sign. (with two tails)		,001	,000	,000	,043	,043	,039
	N	6	6	6	6	6	6	6
VAR00016	Pearson correlation	,971**	1	,971**	,998**	,843*	,843*	,881*
	Sign. (with two tails)	,001		,001	,000	,035	,035	,020
	N	6	6	6	6	6	6	6
VAR00017	Pearson correlation	1,000**	,971**	1	,985**	,825*	,825*	,833*
	Sign. (with two tails)	,000	,001		,000	,043	,043	,039
	N	6	6	6	6	6	6	6
VAR00018	Pearson correlation	,985**	,998**	,985**	1	,843*	,843*	,873*
	Sign. (with two tails)	,000	,000	,000		,035	,035	,023
	N	6	6	6	6	6	6	6
VAR00019	Pearson correlation	,825*	,843*	,825*	,843*	1	1,000**	,989**
	Sign. (with two tails)	,043	,035	,043	,035		,000	,000
	N	6	6	6	6	6	6	6
VAR00020	Pearson correlation	,825*	,843*	,825*	,843*	1,000**	1	,989**
	Sign. (with two tails)	,043	,035	,043	,035	,000		,000
	N	6	6	6	6	6	6	6
VAR00021	Pearson correlation	,833*	,881*	,833*	,873*	,989**	,989**	1
	Sign. (with two tails)	,039	,020	,039	,023	,000	,000	
	N	6	6	6	6	6	6	6

All the variables from V15 to V21 show a high and very high correlation between them

Sports sciences and management (LM-47) open-ended universities from 2013-14 to 2019-2020

Correlations		VAR00023	VAR00024	VAR00025	VAR00026	VAR00027	VAR00028	VAR00029
VAR00023	Pearson correlation	1	1,000**	1,000**	,707	,337	,447	,318
	Sign. (with two tails)		,000	,000	,116	,513	,374	,539
	N	6	6	6	6	6	6	6
VAR00024	Pearson correlation	1,000**	1	1,000**	,707	,337	,447	,318
	Sign. (with two tails)	,000		,000	,116	,513	,374	,539
	N	6	6	6	6	6	6	6
VAR00025	Pearson correlation	1,000**	1,000**	1	,707	,337	,447	,318
	Sign. (with two tails)	,000	,000		,116	,513	,374	,539
	N	6	6	6	6	6	6	6
VAR00026	Pearson correlation	,707	,707	,707	1	,561	,632	,546
	Sign. (with two tails)	,116	,116	,116		,247	,178	,263
	N	6	6	6	6	6	6	6
VAR00027	Pearson correlation	,337	,337	,337	,561	1	,966**	,999**
	Sign. (with two tails)	,513	,513	,513	,247		,002	,000
	N	6	6	6	6	6	6	6
VAR00028	Pearson correlation	,447	,447	,447	,632	,966**	1	,954**
	Sign. (with two tails)	,374	,374	,374	,178	,002		,003
	N	6	6	6	6	6	6	6
VAR00029	Pearson correlation	,318	,318	,318	,546	,999**	,954**	1
	Sign. (with two tails)	,539	,539	,539	,263	,000	,003	
	N	6	6	6	6	6	6	6

V23 with V24 and V25 shows a perfect positive correlation 1
 V26 with V23, V24 and V25 shows a good correlation 0.707
 V27 with V28 and V29 shows a very high correlation 0.966, 0.999
 V28 with V29 shows a very high correlation 0.954

Discussion

In table 1, it is possible to observe all the changes that occurred in the study plan for the master's degree course LM-68. During the 2009/2010 academic year, the University of Salerno introduced the master's degree program for motor and sports sciences. The master's degree program LM-68 aimed to "prepare for the professions of teachers specialized in the education and training of the handicapped, guides and specialized guides, instructors of non-competitive sports, to create organizational professions in the field of 'physical education and sport, of coaches and technicians of competitive sports disciplines ". In the 2010/2011 academic year the main changes in the study plan, compared to the academic year 2009/2010, concern the addition of some disciplines in the biomedical, psychological, pedagogical and sociological-juridical fields entailing a variation in the total of the credits regarding the characterizing activities from 57 (of the previous year) to 60. The same thing happens between the supplementary and related activities where it goes from 13 to 18 credits. In addition, in the "other training activities" section, the weight of the credits of the activities chosen by the student (from 10 to 12 credits), and the weight of the internship (from 10 to 20 credits) is increased. In the 2011/2012 academic year, the main changes concerning the study plan this time concern the removal of some disciplines in the biomedical field, with a consequent increase in the weight of the ECTS of the proposed subjects. Same thing occurs in the psychological-pedagogical field (where the weight of the ECTS, however, remains unchanged) and for the juridical sociological sphere. Reduction of the disciplines also in the field of "related activities" with a reduction of credits from 18 (characterizing the previous year) to 14. In the "other training activities", section also decreases the weight of the activities chosen by the student (from 12 to 8 credits), increases the weight for the Final exam (from 10 to 12 credits) and also increases the weight of the training activity (from 10 to 20 ECTS). Given the removal of some activities (such as "Language skills", "computer skills", "other useful knowledge for entering the world of work") the total ECTS for the "other activities" section goes from 42 (previous year) at 40 ECTS. Further changes also characterize the "maximum number of recognizable credits" with a reduction from 30 to 12 credits. In the competition notice, there will also be changes in the "knowledge required for access" section where it is specified that: "graduates from the Education Sciences classes (L18 / 509, L19 / 270, LM-85 bis) who have acquired in the sectors scientific-disciplinary activities envisaged for basic activities and characterized by class L-22 at least 90 ECTS (instead of 85) of which: 42 basic in the motor sports, biomedical, psychological-pedagogical-sociological, historical-juridical-economic fields and statistics and 48 in the motor-sports, medical-clinical, psychological-pedagogical-sociological, historical-juridical-economic and biological fields". During the 2012-2013 academic year, the training offer plan is, basically, the same. The only variations concern the modification of the description of the professional figure. In the section "the course prepares for the profession of" appears the wording of "tourist guides" and "organizers of events and sports facilities" while from "teachers specializing in education and training of disabled people" (previous years) we move to the wording "Specialists in education and training for people with disabilities". Finally, from "guides and specialized guides" we move on to "guides and nature and sports guides". Also in the 2013/2014 academic year the plan of the educational offer remains unchanged, what varies is the denomination of some study disciplines. As highlighted these variations concern the "biomedical field" (MED-33, MED-09), "motor and sports disciplines" (M-EDF / 01, M-EDF / 02) and "pedagogical field" (M-PED / 03). The definition of the professional figure is changed again. There is no longer the wording of "tourist guides" but only "Specialists in the education and training of people with disabilities", "Instructor of non-competitive sports," Organizers of events and sports facilities "and" Coaches and sports technicians ". For the 2014/2015 academic year the only change in the study plan occurs in the "related and supplementary activities", section where the introduction of the "experimental pedagogy" discipline (M-PED / 04) replaces "hygiene general and sport" (MED-42). Furthermore, among the supplementary activities the discipline "general pedagogy" (M-PED / 01) is renamed "Wellness Pedagogy". The following academic year, 2015/2016, the only variation occurs among the 'characterizing disciplines "in the Pedagogical field (M-PED / 03) where from a single discipline weighing 12 ECTS (previous year) occurs the splitting of the exam into two modules each with a weight of 6 credits. As for the 2017/2017 academic year, compared to the previous year in the pedagogical field (M-PED / 03), two disciplines each weighing 6 credits are returned to a single discipline weighing 12 credits. Another variation occurs also in the weight of the discipline "wellness pedagogy" (M-PED / 01) from 6 ECTS (previous year) to 8 ECTS. In the 2017/2018 academic year, there are several changes in the training offer plan. First of all, in the context of the characterizing activities we have the introduction of the discipline "Movement analysis" (M-EDF / 01) weighing 12 ECTS. The total credits of the "motor and sports disciplines" section of 30 credits (previous years) become 36 credits. On the other hand there is a reduction in the credits requested in the "Biomedical" field from 18 credits (previous years) to 12 credits. The credits required by the "related and supplementary" activities from 14 ECTS to 12 ECTS also vary. Further changes also occur in the "other training activities" section where the credits provided by 40 credits (previous years) become 42 credits. There is a reduction in the weight of the final exam from 12 ECTS to 10 ECTS; furthermore, there is the introduction of the "language skills" discipline

with a weight of 4 ECTS. The definition of the professional figure also varies; in fact, it no longer appears the words "Specialists in education and training of people with disabilities". The only change for the 2018/2019 academic year concerns the introduction between the "related and supplementary activities" of the discipline "Comparative law of sports organizations" (IUS / 02). The main changes in the study plan for the 2019/2020 academic year concern the addition of a new optional discipline for M-EDF / 01 "The epistemological and methodological-procedural foundations of didactics of physical activities" (6 credits). Also added another optional discipline for M-EDF / 02 "The didactics of sports and school games" (6 credits). In the psychological-pedagogical field (M-PED / 03) there is the appearance of 3 new disciplines: two optional: "Inclusive didactic design" and "Universal design for Learning" (both 6 ECTS) and one compulsory: "Educational planning inclusive and Universal design for Learning" (from 12 ECTS). Among the integrative and related activities within the framework of M-EDF / 01 appears the discipline "Methods and techniques of psychomotor assessment" of 6 credits. In the table 2, instead, are shown the main changes that occurred in the study plan for the three-year degree course L-22 from the 2014/2015 academic year (year in which the degree course was introduced) to the 2019/2020 academic year. In the 2015/2016 academic year, the study plan remains practically the same as in the previous academic year. During the 2016/2017 academic year, in the study plan among the "basic activities", section "pedagogical, psychological and sociological" there is a new discipline in M-PED / 01, called "General pedagogy and sport". The same thing occurs between the characterizing activities, section "pedagogical, psychological and sociological" with a new name for the study discipline M-PED / 03 "didactics and special pedagogy". For the academic year 2017/2018 among the "basic activities", section "psychological, pedagogical and sociological" there is the introduction of the discipline M-PED / 04 (Design and evaluation of training interventions). Here you need the obligatory choice of a single teaching between "Design and evaluation" (M-PED / 04) and "General pedagogy and sport" (M-PED / 01) both weighing 10 ECTS. Also among the basic activities, in the "legal, economic and statistical field" there is the introduction of the "Political economy" (SECS-S / 01) with a weight of 6 credits. Among the characterizing activities, section "historical, juridical and economic" there is the obligatory introduction of the "private law" (IUS / 01) with a weight of 6 credits, with a consequent increase in the total credits provided for the characterizing activities from 61 ECTS (previous years) at 67 ECTS. Among the related and integrative activities, both the introduction in the optional disciplines such as "clinical psychology" (M-PSI / 08) and "Evaluation and certification of competences" (M-PED / 04) both with 6 credits, both the reduction of the total number of training credits envisaged for the related activities from 24 ECTS (previous years) to 18 ECTS. Finally, in the "other activities" section, there is a reduction in the credits required for the Final exam (from 4 credits to 3 credits), the removal of the "computer skills" teaching and the increase in credits for the discipline "language skills" (from 2 ECTS to 5 ECTS). The changes for the 2018/2019 academic year mainly concern the insertion of a discipline among the "basic activities" section "pedagogical, psychological and sociological" with the opportunity of choice as regards the discipline M-PSI / 01 between "general psychology and mind-body integration" or "basic elements of psychological functioning". Among the "characterizing activities" in the section "pedagogical, psychological and sociological", there is the inclusion of an optional teaching in the context of the M-PED / 03 teaching (special pedagogy and teaching of inclusion). Finally, the main changes concerning the 2019/2020 academic year, concern an increase in the ECTS weight among the "characterizing activities", section "motor and sports disciplines" from 24 ECTS (previous years) to 30 ECTS due to the inclusion in the plan of the compulsory discipline "Sports sciences" weighing 6 ECTS. Further changes concern the reduction of the ECTS inherent to the "characterizing activities", section "historical, juridical and economic" from 12 ECTS (previous years) to 6 ECTS with the option chosen between "sport history" or "sport law".

Conclusion

Much has been done over the years, but there is still much to do in the years to come. This university is very keen on the Motor and Sport Science sector, a sector that is very often mistreated on several fronts. Suffice it to say that Italy is already in last place in Europe for the hours devoted to basic physical activity in schools: already now it has a third compared to France and half of Belgium and Germany. It is a paradox that in years devoted internationally to the values of sport, an already low level of physical activity in schools is further reduced. We as a university refuse to take resources away from sport and culture. Instead, it is necessary to resort to synergies and solutions that make the most of the available means. Our intention is to respond to the growing needs of professional figures dedicated to physical activity for sport and for the treatment of the main diseases "sensitive to physical exercise". The goal of our degree courses is to train real motor activity professionals with skills to define and manage individual and group level programs.

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