YEREVAN STATE
UNIVERSITY

KEY PERFORMANCE INDICATORS OF YEREVAN STATE UNIVERSITY (2014-2019)

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Authored by **G.G. Gevorgyan, E.V. Asriyan, R.H. Barkhudaryan, A.S. Budaghyan, M.G. Santurjyan, A.N. Sargsyan, R.G. Grigoryan**

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This research aims to measure and evaluate the performance of Yerevan State University in a variety of fields by applying a set of key performance indicators. It presents the chief performance indicators of the past five years (2014-2019) in six core areas of university activity. They highlight the progress Yerevan State University has made towards its long-term goals and call attention to the areas that need improvement. It will help Yerevan State University further increase the level of its organizational productivity and establish effective mechanisms for development.
This is addressed to those structures of Yerevan State University that are engaged in the organization and management of the university and its subdivisions.

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INTRODUCTION

The present analytical study illustrates the key performance indicators (KPI) of Yerevan State University (YSU) for the past five years (2014-2019).

The chief performance indicators are of dual significance to Yerevan State University since they serve as a basis for analyzing the university activities and offering an accurate assessment on its organizational productivity. They are also used in strategic planning to investigate the external environment in which the university operates and determine its strengths, weaknesses, opportunities and threats (SWOT).

The analysis of those KPIs also plays a pivotal role in measuring the results attained at different stages of the university strategic plan implementation as they are precise, succinct and measurable. The KPIs make it perfectly feasible to address the objectives, issues and fulfill the actions set out in the strategic plan. They also enable Yerevan State University to establish a link between the crucial factors of its internal and external environment.

The KPIs allow Yerevan State University to evaluate the core areas of its activity in comparison to its 'peer' higher education institutions by benchmarking the best practices as well as set targets for the desired level of performance drawing on the past data.

There are two types of indicators among the KPIs presented here. The first one measures the performance outcomes in those areas over which the university has control. The other type evaluates the factors that have an impact on the 'health' and overall 'well-being' of the university but over which Yerevan State University has little to no control.

While drawing up the list of YSU KPIs, first of all the 6 core areas of the university activity have been determined:

1. Admissions and Student Body
2. Academic Process
3. Resources and Management
4. Infrastructures
5. Science and Research
6. Foreign Relations and International Cooperation

Subsequently, key performance indicators (KPIs) have been set for each area. The comprehensive list of YSU KPIs covers 85 indicators which are classified according to the core areas of YSU activity.

The present research is addressed to the administration of Yerevan State University and its subdivisions as well as to all those structures that are engaged in the organization and management of the university.

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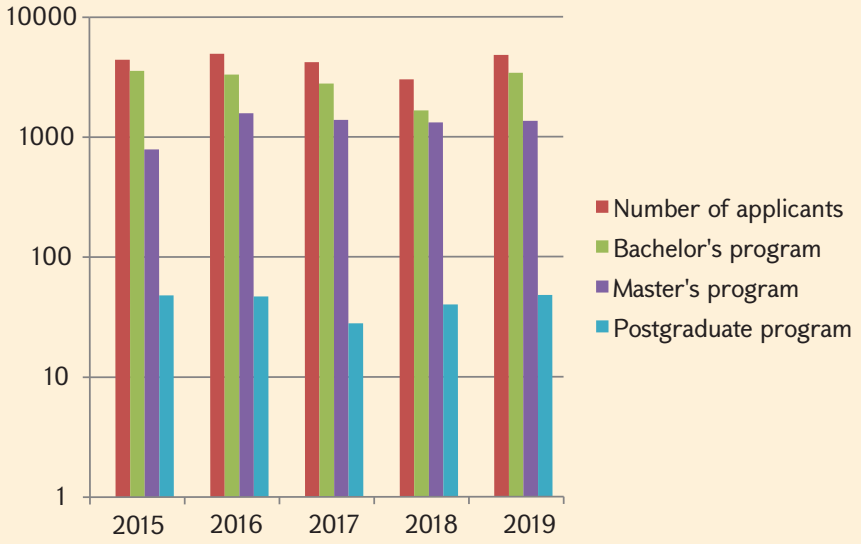
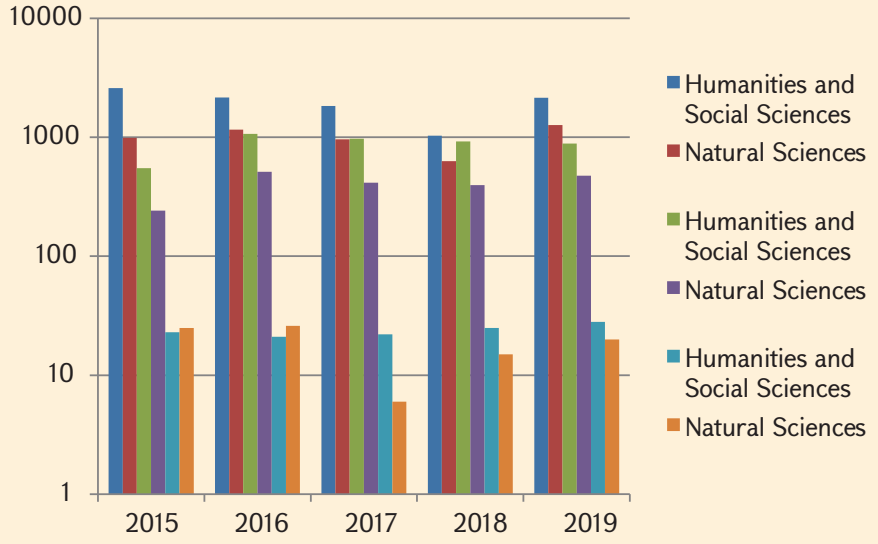
Indicator 1.1. Number of Full-Time Applicants According to Academic Programs and Fields

	2015	2016	2017	2018	2019
Number of applicants	4407	4941	4203	3017	4809
Bachelor's program	**3568**	**3318**	**2791**	**1659**	**3404**
Humanities and Social Sciences	*2581*	*2159*	*1833*	*1030*	*2138*
Natural Sciences	*987*	*1159*	*958*	*629*	*1266*
Master's program	**791**	**1576**	**1384**	**1318**	**1357**
Humanities and Social Sciences	*549*	*1064*	*969*	*922*	*884*
Natural Sciences	*242*	*512*	*415*	*396*	*473*
Postgraduate program	**48**	**47**	**28**	**40**	**48**
Humanities and Social Sciences	*23*	*21*	*22*	*25*	*28*
Natural Sciences	*25*	*26*	*6*	*15*	*20*

In 2015-2018 there was a decline in the number of candidates applying for a Bachelor's course making up about 54% in 2018. It was conditioned by both demographic factors and the introduction of the 12-year school system (2006) which resulted in unequal distribution of students. As compared with 2018 the number of applicants doubled in 2019. In 2016-2019 the figures for candidates applying to start a Master's course decreased by 14%. The fairly low rate of 2015 was conditioned by the said factors. In case of both Bachelor's and Master's programs, the number of applications for admission to faculties offering courses in the Humanities and Social Sciences is 2.5 times bigger than Natural Sciences. As distinct from these two academic degrees, the number of applications for admission to a postgraduate course has been fairly stable fluctuating between 40 and 48 (except for the year 2017).

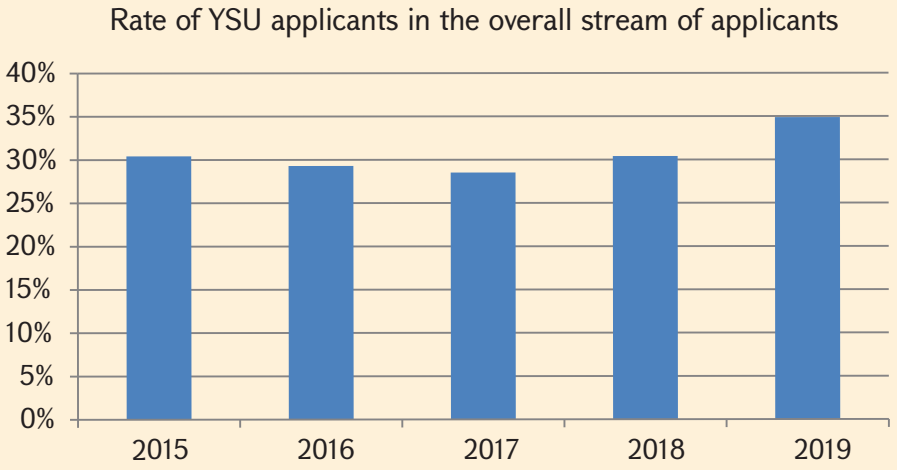




Indicator 1.2. Rate of Full-Time Bachelor's Degree Applicants in the Overall Stream of Centralized Admission System

	2015	2016	2017	2018	2019
Overall number of applicants	11732	11324	9789	5456	9759
Number of YSU applicants	3568	3318	2791	1659	3404
Rate of YSU applicants	30%	29%	29%	30%	35%

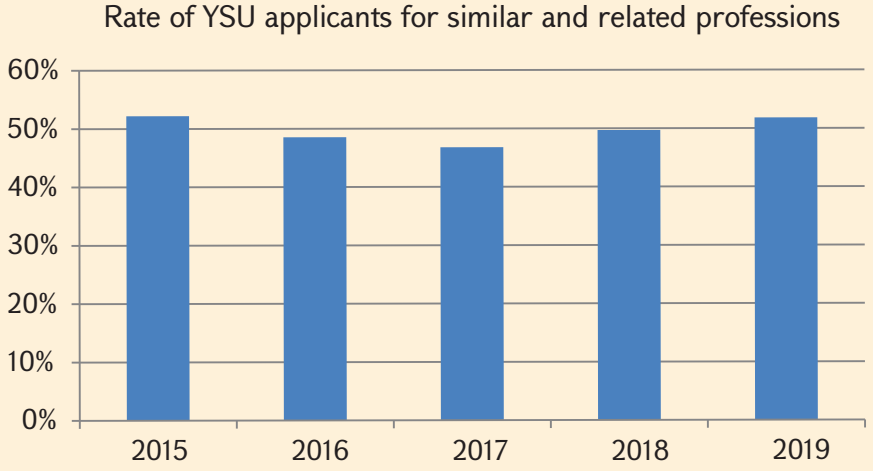
Since 2015 there has been a gradual decline in the number of applicants which made up around 54% in 2018 (this index is conditioned by the previously stated factors). Relative to 2018 the overall number of applicants grew by 79% in 2019. Despite the mentioned circumstances, in 2015-2018 the rate of full-time YSU applicants was relatively stable making up about 29-30% of the overall stream of centralized admissions and 35% in 2019.



Indicator 1.3. Rate of Full-Time Bachelor's Degree Applicants in the Stream of Applicants of the Centralized Admission System for Similar and Related Professions

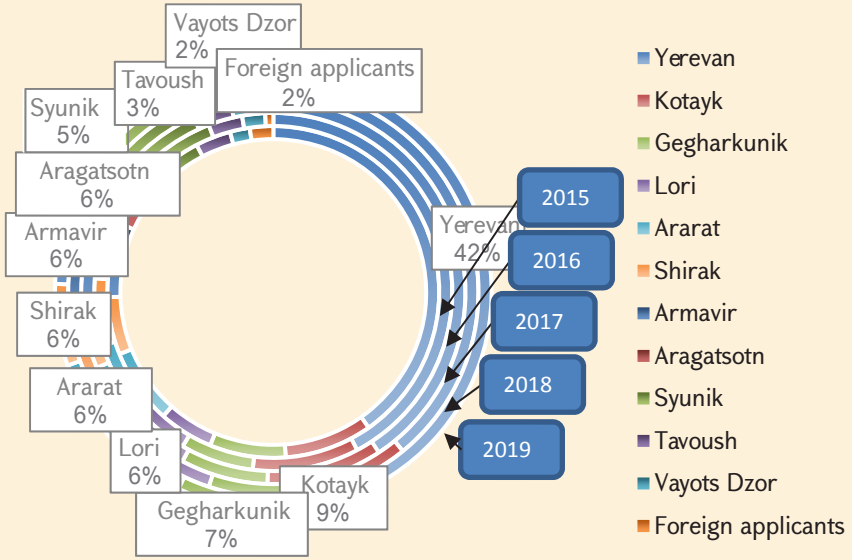
	2015	2016	2017	2018	2019
Number of applicants for similar and related professions	4679	4696	4486	2291	3503
Number of YSU applicants	2441	2279	2098	1138	1814
Rate of YSU applicants	52%	49%	47%	50%	52%

In 2015-2019 the proportion of candidates applying for a full-time Bachelor's course at Yerevan State University remained unchanged in the overall stream of centralized admission applicants for similar and related professions making up 50%.



Indicator 1.4. Distribution of Full-Time Bachelor's Degree Applicants According to Provinces

	2015		2016		2017		2018		2019	
Yerevan	1436	40.2	1401	42.2	1137	40.7	649	39.1	1423	41.8
Kotayk	305	8.5	319	9.6	272	9.7	142	8.6	301	8.8
Gegharkunik	265	7.4	219	6.6	205	7.3	123	7.4	221	6.5
Lori	190	5.3	151	4.6	119	4.3	75	4.5	215	6.3
Ararat	262	7.3	238	7.2	180	6.4	106	6.4	207	6.1
Shirak	200	5.6	201	6.1	171	6.1	99	6.0	206	6.1
Armavir	257	7.2	202	6.1	201	7.2	139	8.4	204	6.0
Aragatsotn	209	5.9	214	6.4	151	5.4	98	5.9	196	5.8
Syunik	171	4.8	178	5.4	165	5.9	105	6.3	181	5.3
Tavoush	123	3.4	102	3.1	91	3.3	52	3.1	115	3.4
Vayots Dzor	69	1.9	69	2.1	62	2.2	39	2.4	64	1.9
Foreign applicants	81	2.3	24	0.7	37	1.3	32	1.9	71	2.1
Total	**3568**		**3318**		**2791**		**1659**		**3404**	

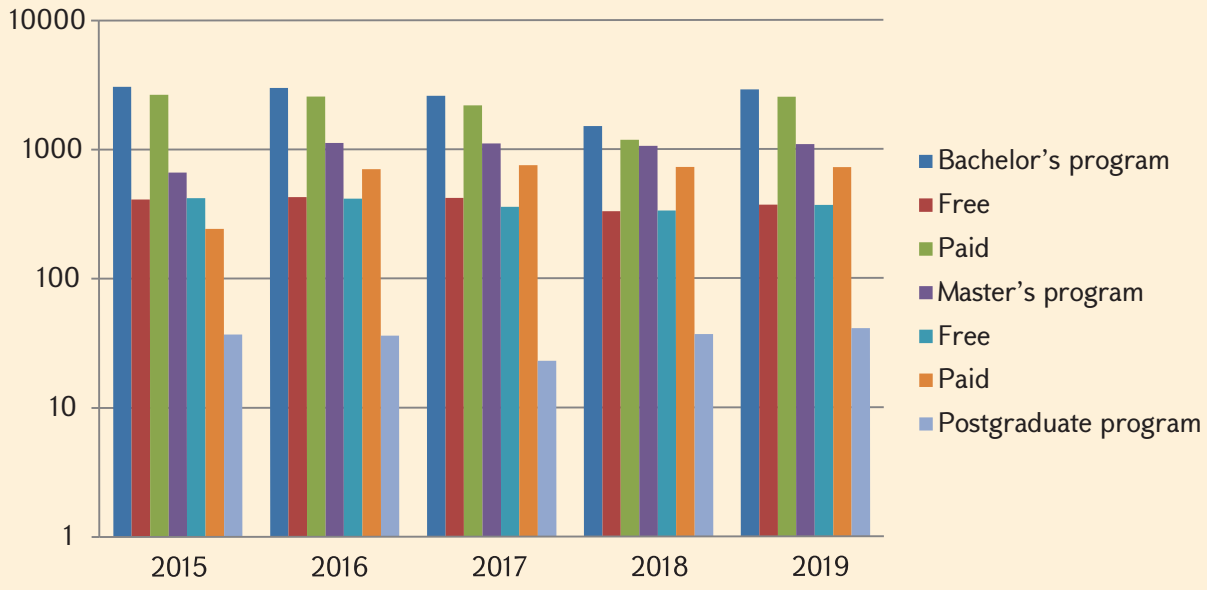


Within 2015-2019 the number of applicants from different provinces of the Republic of Armenia remained static. 60% of YSU applicants were from RA provinces with Kotayk, Gegharkunik, Ararat and Armavir being the leaders. The remaining 40% were from Yerevan.

Indicator 1.5. Full-Time Admissions According to Academic Degrees

	2015	2016	2017	2018	2019
Number of admitted students	**3761**	**4143**	**3736**	**2607**	**4029**
Bachelor's program	**3060**	**2988**	**2602**	**1510**	**2899**
Free	*411*	*428*	*420*	*330*	*370*
Paid	*2649*	*2560*	*2182*	*1180*	*2529*
Master's program	**664**	**1119**	**1111**	**1060**	**1089**
Free	*421*	*415*	*358*	*334*	*368*
Paid	*243*	*704*	*753*	*726*	*721*
Postgraduate program	**37**	**36**	**23**	**37**	**41**
Free	*37*	*36*	*23*	*37*	*40*
Paid	*0*	*0*	*0*	*0*	*1*

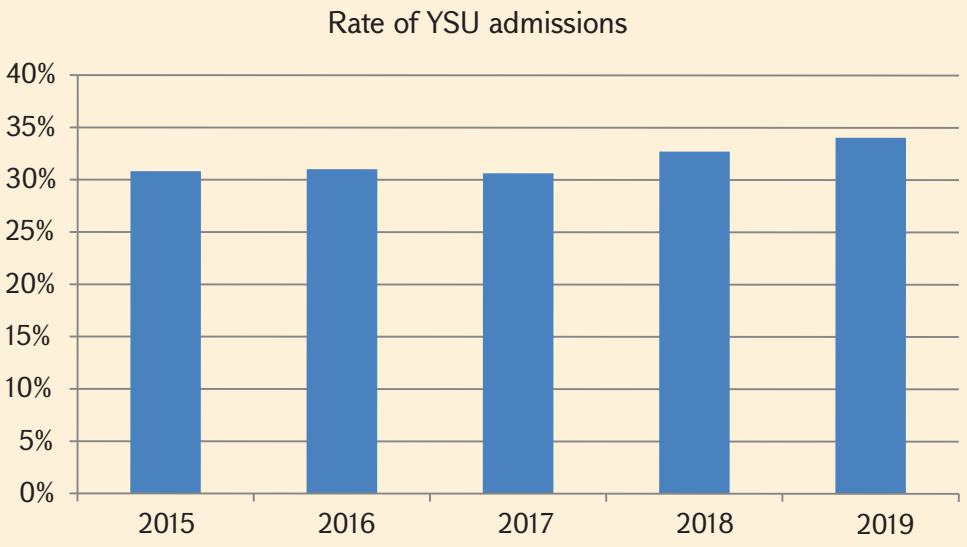
The number of the students admitted to the Bachelor's program declined by 50% in 2015-2018 as compared with the previous years. In 2019 the admissions rate marked a slight increase (the low rate of 2018 was conditioned by above-mentioned factors). Since 2016 a modest decrease of 2% has been observed in the number of students admitted to the Master's program. In 2015-2019 the postgraduate admissions rate fluctuated between 36-41 conditioned by the limited number of spots (except for 2017 which was condiioned by the Master's degree admissions rate of 2015).



Indicator 1.6. Rate of Full-Time Bachelor's Degree Admissions in the Total Number of Centralized Admission System

	2015	2016	2017	2018	2019
Number of centralized admissions	9927	9635	8495	4616	8513
Number of students admitted to YSU	3060	2988	2602	1510	2899
Rate of YSU admissions	31%	31%	31%	33%	34%

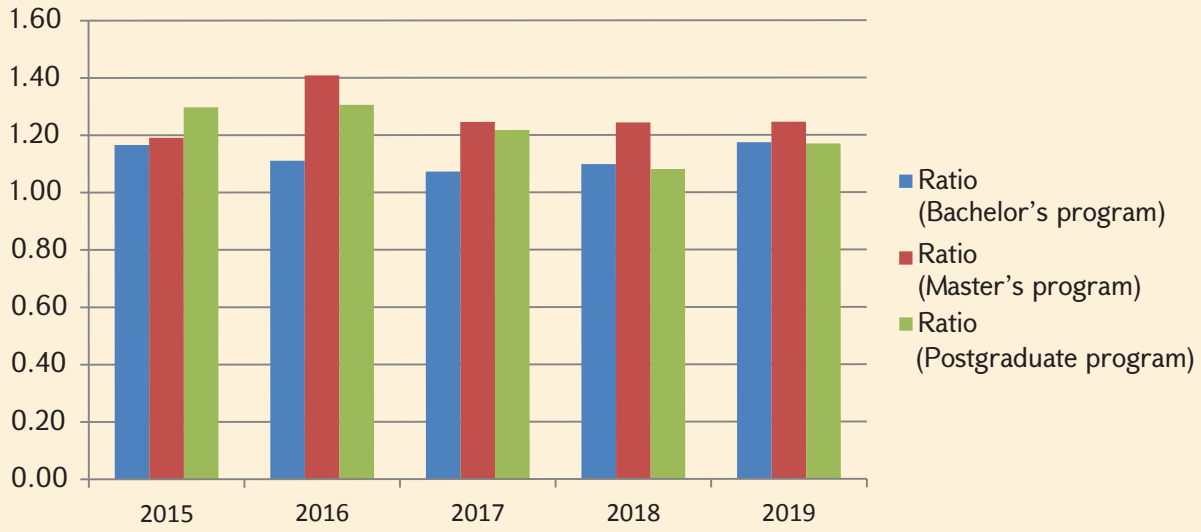
In 2015-2019 the rate of YSU admissions was quite stable representing 31-34% of the overall centralized admissions.



Indicator 1.7. Ratio of Full-Time Applicants to Admitted Students According to Academic Programs

	2015	2016	2017	2018	2019
Number of Bachelor's program applicants	3568	3318	2791	1659	3404
Number of admitted students	3060	2988	2602	1510	2899
Ratio (Bachelor's program)	1.17	1.11	1.07	1.10	1.17
Number of Master's program applicants	791	1576	1384	1318	1357
Number of admitted students	664	1119	1111	1060	1089
Ratio (Master's program)	1.19	1.41	1.25	1.24	1.25
Number of Postgraduate program applicants	48	47	28	40	48
Number of admitted students	37	36	23	37	41
Ratio (Postgraduate program)	1.30	1.31	1.22	1.08	1.17

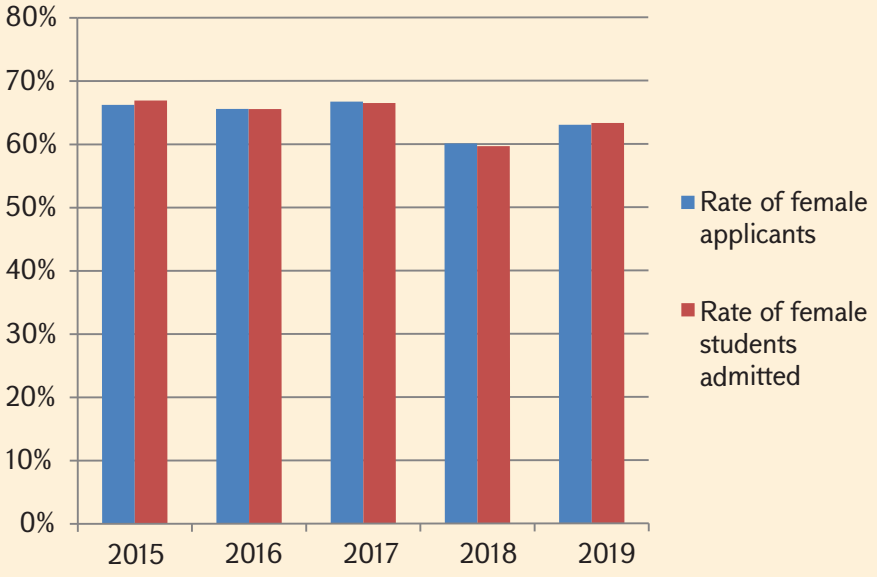
In 2015-2019 the index of competitiveness ranged between 1.07 and 1.17 with regard to the Bachelor's program, whereas in case of the Master's program it fluctuated between 1.19 and 1.41. In the same period of time it decreased notably with regard to the Postgraduate program reaching 1.17 as of 2019.



Indicator 1.8. Rate of Female Applicants in Full-Time Bachelor's Program in the Overall Streams of Applicants and Admitted Students

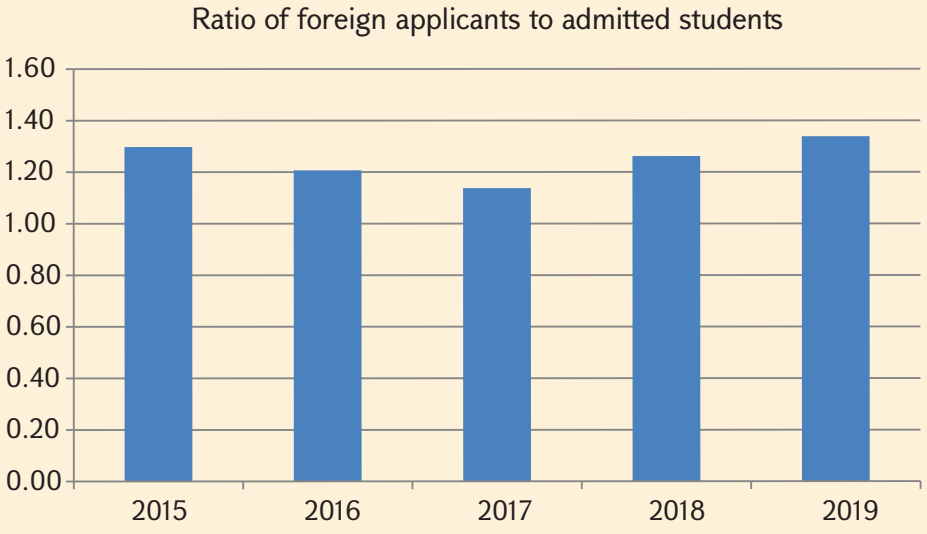
	2015	2016	2017	2018	2019
Number of applicants	3568	3318	2791	1659	3404
Number of female applicants	2363	2176	1862	997	2145
Rate of female applicants	66%	66%	67%	60%	63%
Number of admitted students	3060	2988	2602	1510	2899
Number of female students admitted	2048	1959	1730	901	1835
Rate of female students admitted	67%	66%	66%	60%	63%

In 2015-2017 the rate of female students in the overall streams of YSU applicants and admitted students was stable accounting for 66-67%. Yet, it showed a downward trend making up 60% and 63% in 2018 and 2019, respectively.



Indicator 1.9. Ratio of Full-Time Foreign* Applicants to Admitted Students

	2015	2016	2017	2018	2019
Number of Bachelor's program applicants	67	42	56	53	60
Number of admitted students	51	35	48	40	42
Number of Bachelor's program applicants	20	21	29	23	25
Number of admitted students	18	17	26	20	21
Number of Postgraduate program applicants	9	7	6	6	10
Number of admitted students	5	6	6	5	8
Total number of applicants	**96**	**70**	**91**	**82**	**95**
Total number of admitted students	**74**	**58**	**80**	**65**	**71**
Ratio	1.30	1.21	1.14	1.26	1.34



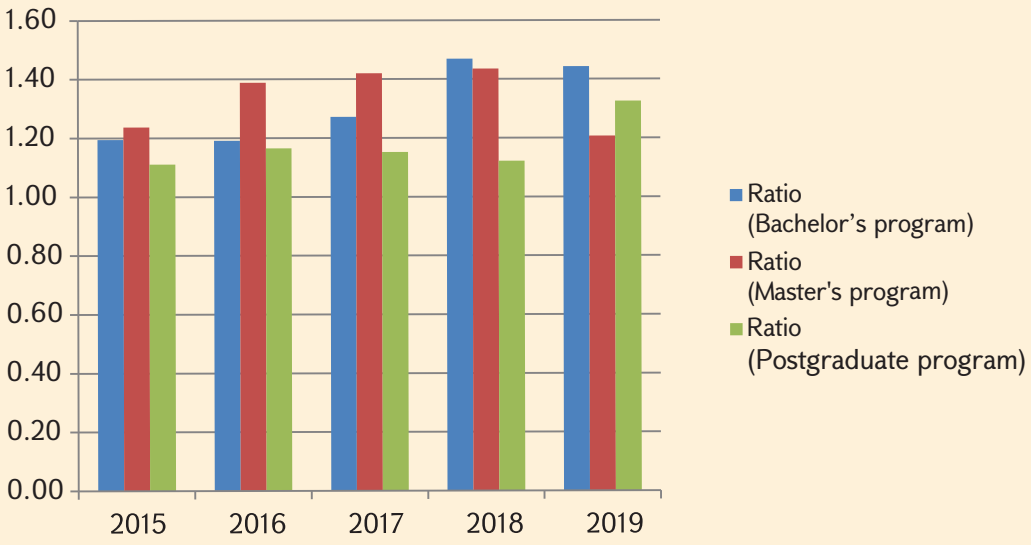
In 2015-2019 the number of foreign applicants is relatively stable in all three levels of academic programs: 53-67 in the Bachelor's program (except for the year 2016), 20-29 in the Master's program and 6-10 in the postgraduate program. It can be claimed that 2019 marked a modest rise in the number of applicants in both Bachelor's, Master's and Postgraduate programs. Accordingly, in the given time period the index of competitiveness ranged between 1.14 and 1.34.

* In all indicators, foreign citizens are presented as applicants and admitted students of a non-centralized system (i.e. interviews, preparatory courses, etc.)

Indicator 1.10. Ratio of Part-Time Applicants to Admitted Students

	2015	2016	2017	2018	2019
Number of Bachelor's program applicants	522	460	379	260	430
Number of admitted students	437	386	298	177	298
Ratio (Bachelor's program)	1.19	1.19	1.27	1.47	1.44
Number of Master's program applicants	235	404	311	264	280
Number of admitted students	190	291	219	184	232
Ratio (Master's program)	1.24	1.39	1.42	1.43	1.21
Number of Postgraduate program applicants	70	99	76	46	53
Number of admitted students	63	85	66	41	40
Ratio (Postgraduate program)	1.11	1.16	1.15	1.12	1.33

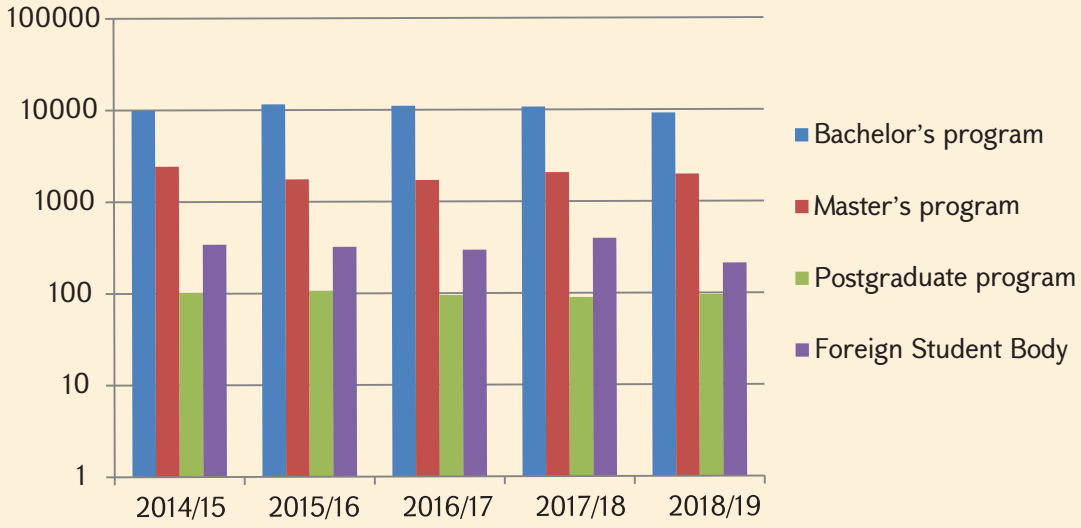
Compared to previous years, in 2015-2018 the number of students applying to start a Bachelor's course plummeted by 50%. Unlike the year 2018 the figures surged by 65% in 2019. A decrease of about 31% was observed in the number of Master's program applicants (the figures for the year 2015 were conditioned by the factors mentioned above). In 2015-2019 the figures for students applying for a Postgraduate degree ranged between 46 and 99 and those for the students admitted - between 40 and 85. This rate was conditioned by the number of spots provided for postgraduate study that year.



Indicator 1.11.1. Full-Time Student Body

	2014/15	2015/16	2016/17	2017/18	2018/19
Part-time student body	12728	13719	13177	13288	11487
Bachelor's program	**9857**	**11536**	**11073**	**10732**	**9199**
Humanities and Social Sciences	*6877*	*7998*	*7570*	*7238*	*6118*
Natural Sciences	*2980*	*3538*	*3503*	*3494*	*3081*
Master's program	**2428**	**1755**	**1712**	**2070**	**1980**
Humanities and Social Sciences	*1709*	*1186*	*1161*	*1435*	*1418*
Natural Sciences	*719*	*569*	*551*	*635*	*562*
Postgraduate program	**102**	**107**	**95**	**90**	**96**
Humanities and Social Sciences	54	52	50	52	62
Natural Sciences	48	55	45	38	34
Foreign Student Body	**341**	**321**	**297**	**396**	**212**

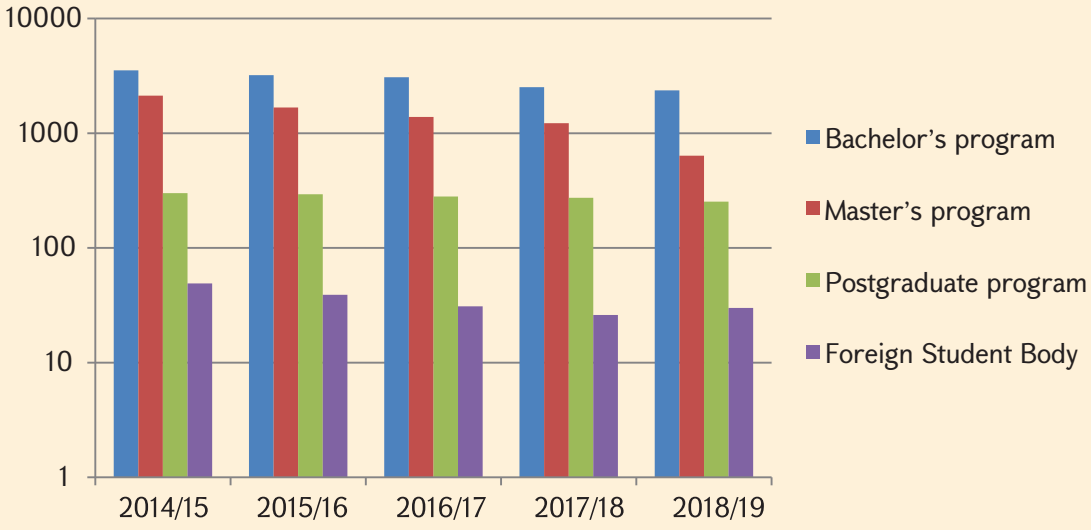
During the academic years 2015/16- 2018/19 the full-time student body dropped by 16% (the rates for the 2014/15 Bachelor's program and the 2016/17 Master's program were conditioned by the stated factors). Two-thirds of both Bachelor's and Master's degree students specialize in the Humanities and Social Sciences. The number of postgraduate students ranges between 90-107. In the given time period a decrease of around 38% was observed in the foreign student body conditioned by the reduced influx of Georgian citizens (with the exception of the academic year 2017/18).



Indicator 1.11.2. Part-Time Student Body

	2014/15	2015/16	2016/17	2017/18	2018/19
Part-time student body	6015	5225	4777	4050	3287
Bachelor's program	**3538**	**3214**	**3080**	**2525**	**2367**
Humanities and Social Sciences	*2736*	*2443*	*2260*	*1747*	*1546*
Natural Sciences	*802*	*771*	*820*	*778*	*821*
Master's program	**2128**	**1678**	**1385**	**1225**	**637**
Humanities and Social Sciences	*1217*	*911*	*767*	*618*	*607*
Natural Sciences	*57*	*37*	*33*	*29*	*30*
Postgraduate program	**300**	**294**	**281**	**274**	**253**
Humanities and Social Sciences	219	226	231	213	207
Natural Sciences	81	68	50	61	46
Foreign Student Body	**49**	**39**	**31**	**26**	**30**

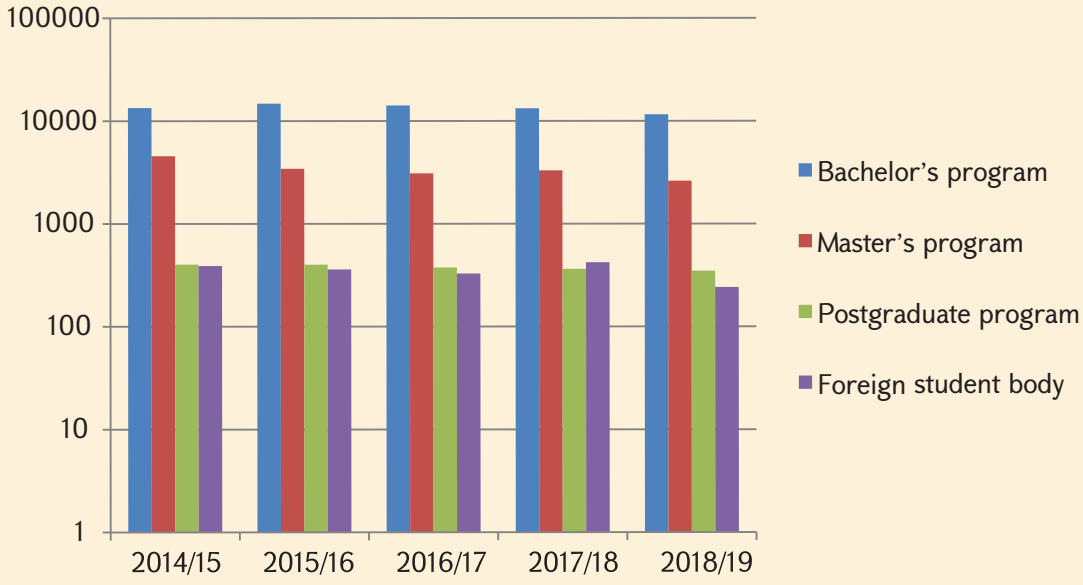
In the academic years 2014/15-2018/19 the part-time student body decreased by about 45%. Furthermore, the figures for the Bachelor's program dropped by 33%, for the Master's program by 70% and the Postgraduate program by 16%. In the same time period the foreign student body dipped by 39%.



Indicator 1.11.3. Total Student Body According to Academic Programs

	2014/15	2015/16	2016/17	2017/18	2018/19
Total student body	18743	18944	17954	17338	14774
Bachelor's program	**13395**	**14750**	**14153**	**13257**	**11566**
Full-time	*9857*	*11536*	*11073*	*10732*	*9199*
Part-time	*3538*	*3214*	*3080*	*2525*	*2367*
Master's program	**4556**	**3433**	**3097**	**3295**	**2617**
Full-time	*2428*	*1755*	*1712*	*2070*	*1980*
Part-time	*2128*	*1678*	*1385*	*1225*	*637*
Postgraduate program	**402**	**401**	**376**	**364**	**349**
Full-time	102	107	95	90	96
Part-time	300	294	281	274	253
Foreign student body	**390**	**360**	**328**	**422**	**242**

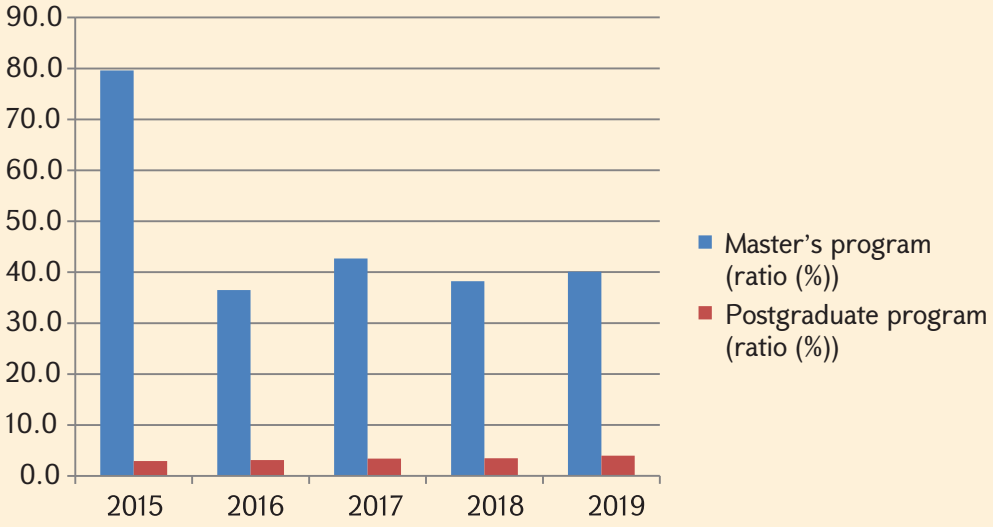
Since the academic year 2015/16 a gradual decrease has been noticed in YSU student body. 78% of the total student body is enrolled in the Bachelor's program, 18% in the Master's program and the remaining 2% in the postgraduate program. Foreign students represent about 2% of the total.



Indicator 1.12. Ratio of Admitted Students to Graduates in Full-time Master's and Postgraduate Programs

	2015	2016	2017	2018	2019
Bachelor's graduates	834	3066	2603	2773	2717
Admitted Master's students	664	1119	1111	1060	1089
Master's program (ratio (%))	79.6	36.5	42.7	38.2	40.1
Master's graduates	1263	1161	675	1071	1006
Admitted postgraduate students	37	36	23	37	40
Postgraduate program (ratio (%))	2.9	3.1	3.4	3.5	4.0

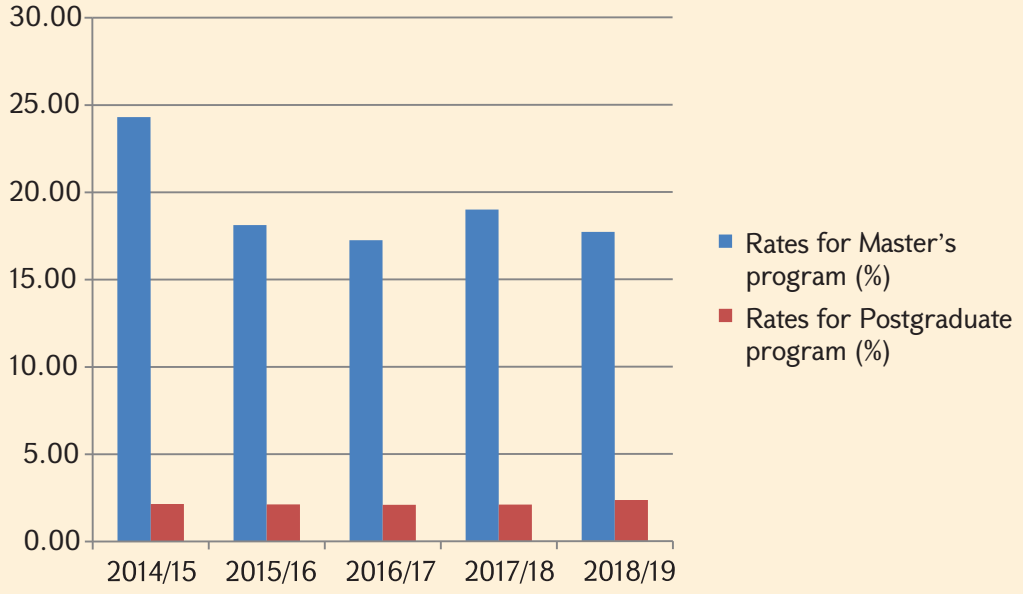
A decrease of 11% was observed in the number of Bachelor's students from 2016 to 2019. The figures for admitted Master's students droppped modestly in the same time period (the figures of 2015 were conditioned by the above-mentioned factors). The ratio of the Bachelor's graduates to the students admitted to the Master's program ranged between 36.5 and 42.7 in time frame from 2016 to 2019. In 2015-2019 the percentages of Master's graduates and students enrolled in the Postgraduate program rose by 2.9-4%.



Indicator 1.13. Rate of Students in Master's and Postgraduate Programs in Total Student Body

	2014/15	2015/16	2016/17	2017/18	2018/19
Total student body	18743	18944	17954	17338	14774
Master's student body	4556	3433	3097	3295	2617
Rates for Master's program (%)	24.31	18.12	17.25	19.00	17.71
Postgraduate student body	402	401	376	364	349
Rates for Postgraduate program (%)	2.14	2.12	2.09	2.10	2.36

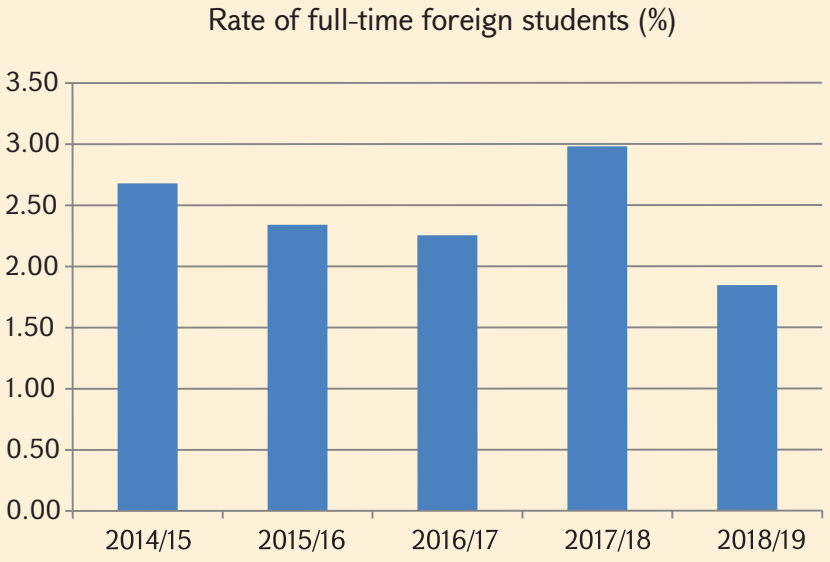
In the academic years 2014/15-2018/19 the rate of Master's students in the total student body fell from 24% to 18%. The low rate (17.25) reported for the academic year 2016/17 was conditioned by the small percentage of Bachelor's degree admissions in 2011. In the given time period the ratio of the postgraduate student body amounted to over 2%.



Indicator 1.14.1. Full-Time Foreign Students and Their Percentage in Total Student Body

	2014/15	2015/16	2016/17	2017/18	2018/19
Full-time student body	12728	13719	13177	13288	11487
Foreign student body, including	**341**	**321**	**297**	**396**	**212**
Bachelor's program	*247*	*261*	*213*	*200*	*160*
Master's program	*57*	*34*	*36*	*36*	*29*
Postgraduate program	*37*	*26*	*48*	*160*	*23*
Percentage of foreign students in full-time student body (%)	2.68	2.34	2.25	2.98	1.85

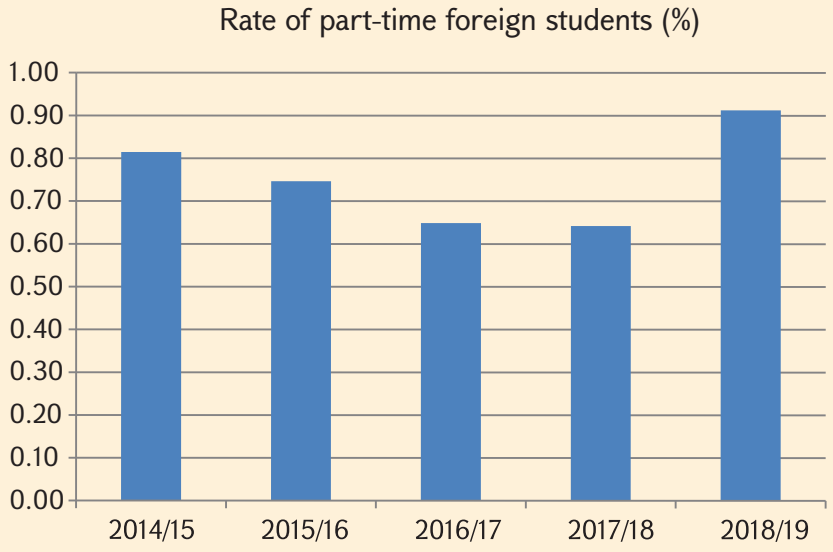
In the 2014/15-2018/19 academic years the figures for foreign students in the full-time student body experienced a fall of about 38% with the exception of the academic year 2017/18 which marked an increase of 16% in relation to 2014/15. Accordingly, in the given time period the rate of foreign students in the full-time student body decreased from 2.68% to 1.85%.



Indicator 1.14.2. Part-Time Foreign Students and Their Percentage in Total Student Body

	2014/15	2015/16	2016/17	2017/18	2018/19
Part-time student body	6015	5225	4777	4050	3287
Foreign student body, including	**49**	**39**	**31**	**26**	**30**
Bachelor's program	*33*	*28*	*21*	*16*	*18*
Master's program	*16*	*11*	*10*	*10*	*12*
Postgraduate program	*0*	*0*	*0*	*0*	*0*
Percentage of foreign students in part-time student body (%)	0.81	0.75	0.65	0.64	0.91

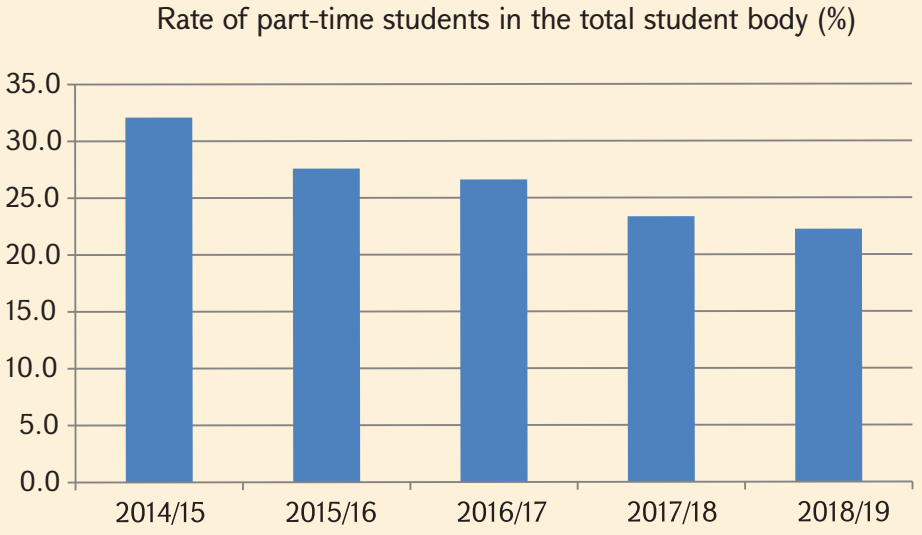
Compared with 2014/15 the figures for foreign students plunged by almost 39% in 2018/19 making up about 1% of the part-time student body (it was conditioned by the factors stated above).



Indicator 1.15. Part-Time Student Body and Its Ratio to Total Student Body

	2014/15	2015/16	2016/17	2017/18	2018/19
Total student body	18743	18944	17954	17338	14774
Part-time student body	6015	5225	4777	4050	3287
Rate of part-time students in the total student body (%)	32.1	27.6	26.6	23.4	22.2

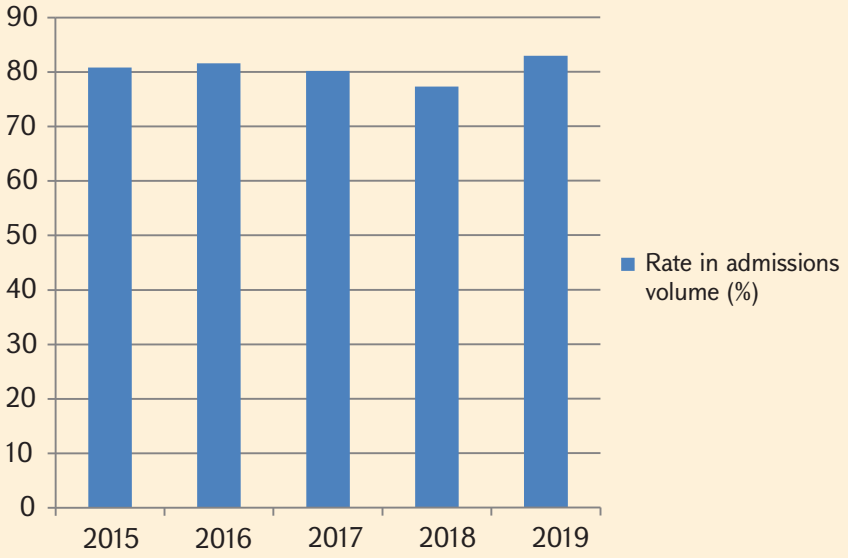
The rate of part-time student body has experienced a gradual decrease for the last five years at 45% in 2018/19. Furthermore, in the academic years 2014/15-2018/19 the figures for part-time students in the total student body fell from 32% to 22%.



Indicator 1.16.1. Rate of Students in Paid Programs in Relation to Admissions Volume According to Academic Degrees and Instruction Modes

	2015	2016	2017	2018	2019
Overall volume of admissions	**4525**	**4963**	**4399**	**3074**	**4670**
Master's program (paid)	**3086**	**2946**	**2480**	**1357**	**2827**
Full-time	*2649*	*2560*	*2182*	*1180*	*2529*
Part-time	*437*	*386*	*298*	*177*	*298*
Master's program (paid)	**433**	**995**	**972**	**910**	**953**
Full-time	*243*	*704*	*753*	*726*	*721*
Part-time	*190*	*291*	*219*	*184*	*232*
Postgraduate program (paid)	**7**	**2**	**0**	**1**	**2**
Full-time	*0*	*0*	*0*	*0*	*0*
Part-time	*7*	*2*	*0*	*1*	*2*
Foreign citizens	**130**	**107**	**74**	**108**	**90**
Total of students in paid programs	**3656**	**4050**	**3526**	**2376**	**3872**
Rate in admissions volume (%)	81	82	80	77	83

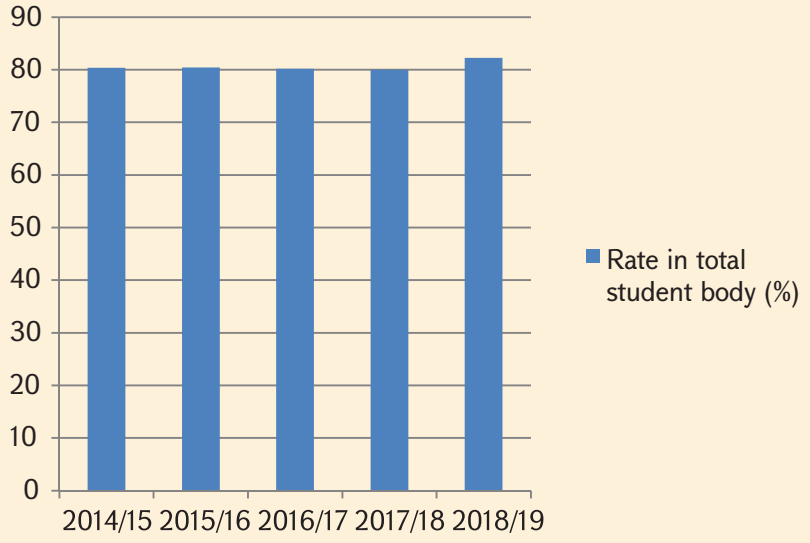
In 2015-2019 the rate of students enrolled in paid programs in relation to the overall volume of admissions fluctuated between 80% and 83%.



Indicator 1.16.2. Rate of Students in Paid Programs in Relation to Total Student Body According to Academic Degrees and Instruction Modes

	2014/15	2015/16	2016/17	2017/18	2018/19
Total student body	**18743**	**18944**	**17954**	**17338**	**14774**
Bachelor's program	**11929**	**13129**	**12447**	**11699**	**10058**
Full-time	*8391*	*9915*	*9367*	*9174*	*7691*
Part-time	*3538*	*3214*	*3080*	*2525*	*2367*
Master's program	**2760**	**1840**	**1677**	**1856**	**1832**
Full-time	*1486*	*892*	*877*	*1209*	*1195*
Part-time	*1274*	*948*	*800*	*647*	*637*
Postgraduate program	**7**	**2**	**0**	**1**	**2**
Full-time	0	0	0	0	0
Part-time	7	2	0	1	2
Foreign citizens	**369**	**267**	**270**	**321**	**260**
Total of students in paid programs	**15065**	**15238**	**14394**	**13877**	**12152**
Rate in total student body (%)	80	80	80	80	82

The rate of students entolled in paid programs amounted to 80-82% of the total student body during the last five academic years.



AREA 2. Academic Process

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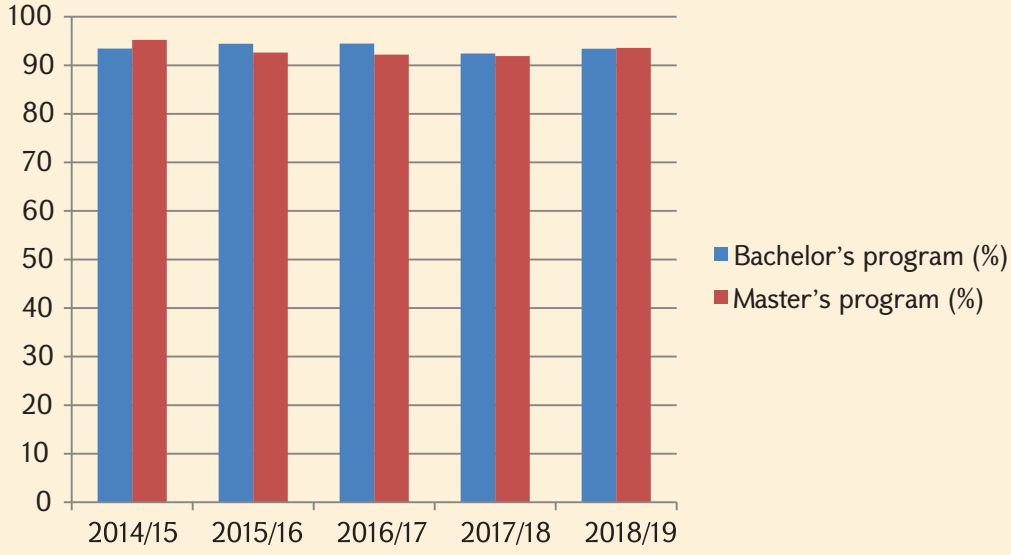
Indicator 2.1. Transition from First to Second Year of Full-Time Study According to Academic Degrees

	2014/15	2015/16	2016/17	2017/18	2018/19
Bachelor's program (%)	93.44	94.43	94.47	92.42	93.43
Master's program (%)	95.23	92.62	92.2	91.9	93.57

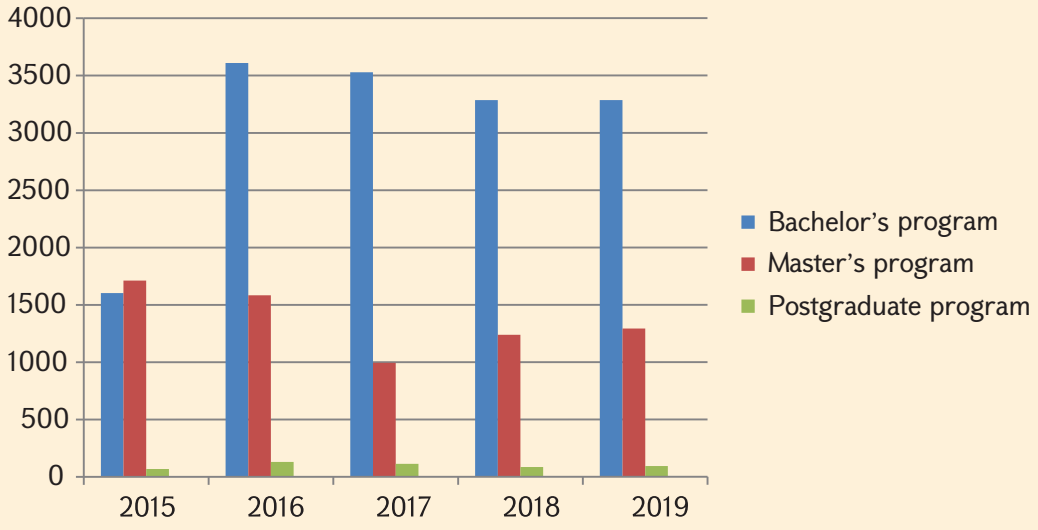
During the academic years 2014/15-2018/19 the transition from the first to the second year in the Bachelor's program maked up 92-93%. Since the academic year 2014/15 a gradual decrease from 95% to 92% has been observed in the figures for the transition from the first to the second year in the Master's program. Yet, in 2018/19 those figures increased to 94%.



Indicator 2.2. Graduates According to Academic Degrees and Instruction Modes

	2015	2016	2017	2018	2019
Number of graduates	**3384**	**5323**	**4638**	**4610**	**4672**
Bachelor's program	**1603**	**3609**	**3529**	**3286**	**3285**
Full-time	834	3066	2603	2773	2717
Part-time	769	543	926	513	568
Master's program	**1712**	**1584**	**995**	**1239**	**1293**
Full-time	1263	1161	675	1071	1006
Part-time	449	423	320	168	287
Postgraduate program	**69**	**130**	**114**	**85**	**94**
Full-time	29	39	35	38	36
Part-time	40	91	79	47	58

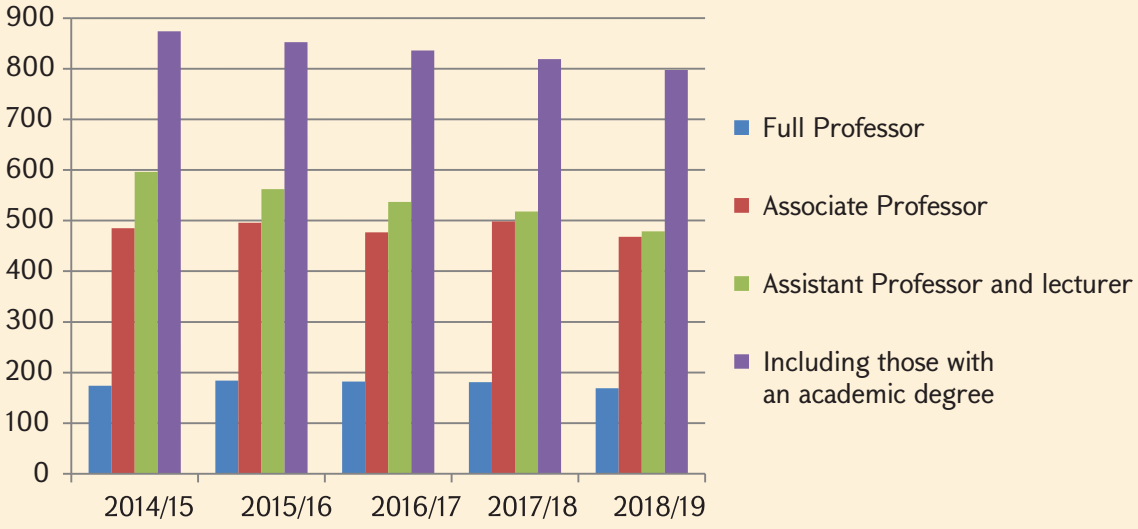
2015 marked a decrease in the overall number of graduates conditioned by the decline in the volume of admissions to the Bachelor's program in 2011 (it was influenced by both demographic factors and the fact that foreign universities established their branches here). In 2015-2019 a decline of about 24% was observed in the number of students admitted to the Master's program, given the decrease in the overall number of Bachelor's graduates (the low index of 2017 was conditioned by the above-mentioned factors). Within the given time frame a rise of about 36% was noticed in the number of students that completed the postgraduate course. This, in its turn, was conditioned by the growth in the number of part-time students.



Indicator 2.3. Main Teaching Staff

	2014/15		2015/16		2016/17		2017/18		2018/19	
Full Professor	174	13.9%	184	14.8%	182	15.2%	181	15.1%	169	15.1%
Associate Professor	485	38.6%	496	39.9%	477	39.9%	498	41.6%	468	41.9%
Assistant Professor and lecturer	596	47.5%	562	45.2%	537	44.9%	518	43.3%	479	42.9%
Total	1255		1242		1196		1197		1116	
Including those with an academic degree	874	69.6%	852	68.6%	836	69.9%	819	68.4%	797	71.4%

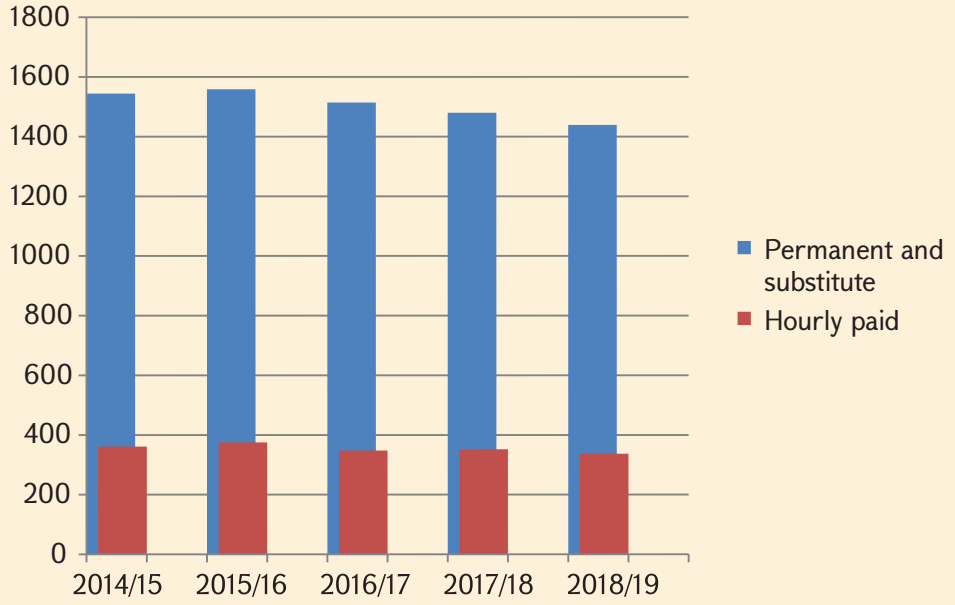
The percentage of the main teaching staff has dropped by 11% over the past five years. In the meantime, the number of lecturers holding an academic degree has fallen too. Yet, in 2018/19 their percentage in the main teaching staff amounted to 71.4%. In the same period of time Full Professors and Associate Professors made up over 50% of the main teaching staff.



Indicator 2.4. Distribution of Teaching Staff According to Employment Contract Type (Permanent and Substitute, Hourly Paid)

	2014/15		2015/16		2016/17		2017/18		2018/19	
Permanent and substitute	1544	92.2%	1559	80.6%	1514	81.3%	1480	80.8%	1439	81.0%
Hourly paid	361	7.8%	375	19.4%	348	18.7%	352	19.2%	337	19.0%
Total	1905		1934		1862		1832		1776	

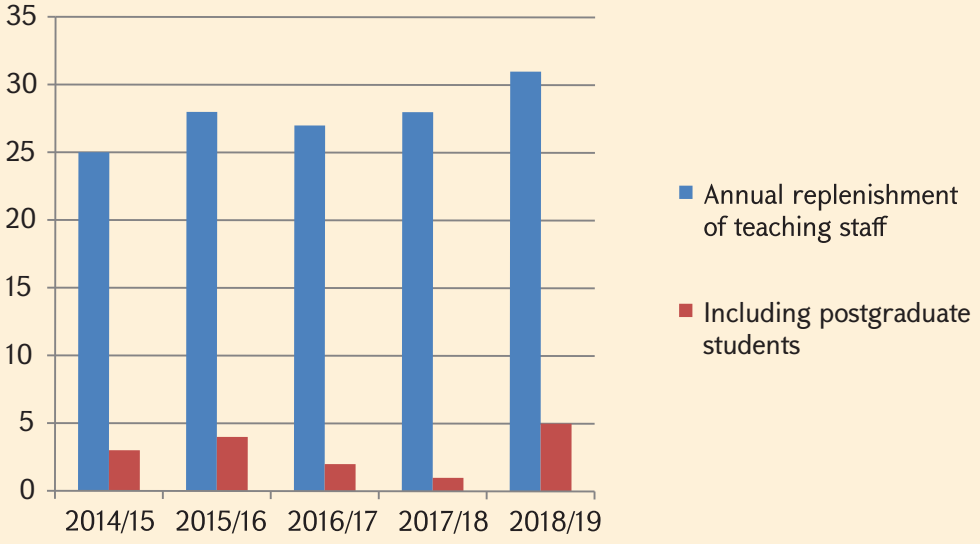
The amount of permanent and substitute lecturers has dropped over the past five years making up 81% of the teaching staff as of 2018/19. In the mentioned time period the percentage of hourly paid lecturers grew slightly to 19% as a result of recruiting outside specialists given the final results of academic programs.



Indicator 2.5. Annual Replenishment of Teaching Staff

	2014/15	2015/16	2016/17	2017/18	2018/19
Annual replenishment of teaching staff	25	28	27	28	31
Including postgraduate students	3	4	2	1	5

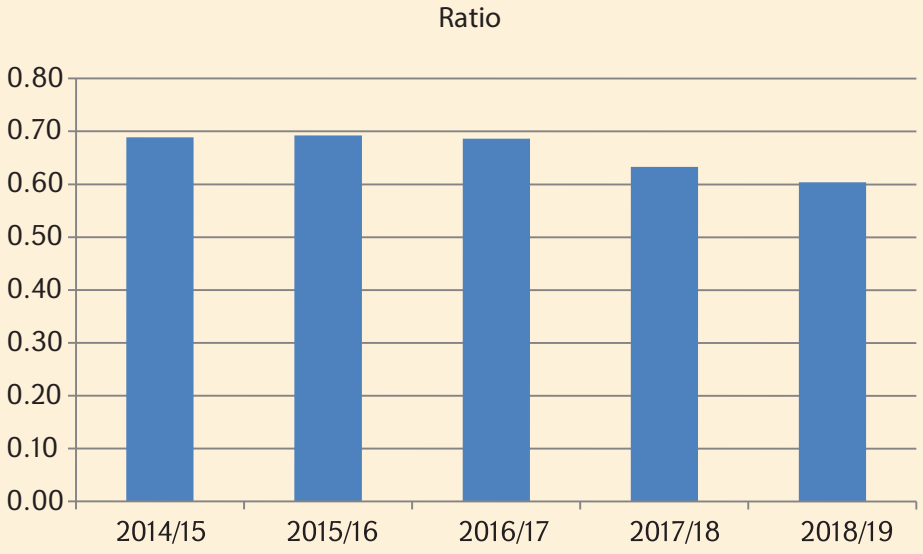
During the academic years 2014/15-2018/19 the rate of teaching staff replenishment experienced a gradual increase from 25% to 31%. Despite some progress, the rate of annual replenishment with postgraduate students is still rather low.



Indicator 2.6. Ratio of Teaching Positions to Overall Teaching Staff

	2014/15	2015/16	2016/17	2017/18	2018/19
Overall teaching staff	1905	1934	1862	1832	1776
Teaching positions	1312	1339	1278	1160	1073
Ratio	0.69	0.69	0.69	0.63	0.60

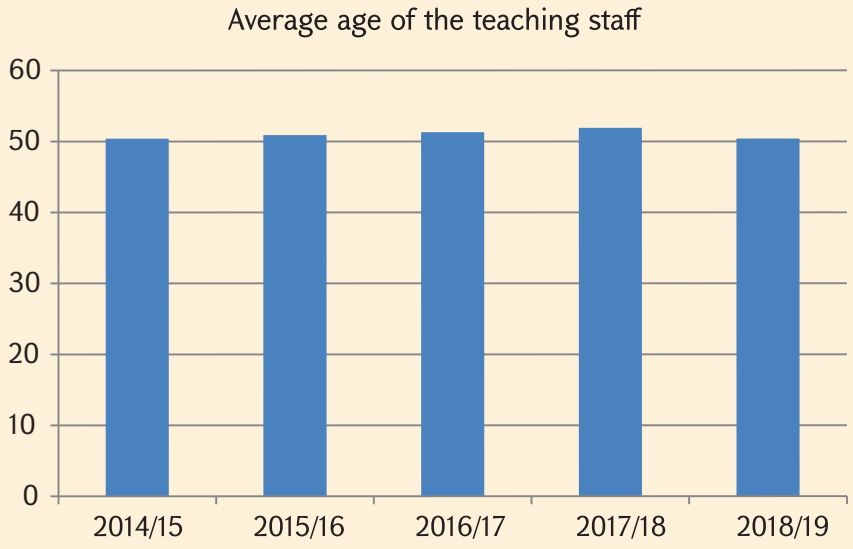
The extent to which teaching positions have been occupied over the past five years makes up 0.6-0.7%.



Indicator 2.7. Age Distribution of Main Teaching Staff

	2014/15	2015/16	2016/17	2017/18	2018/19
Aged under 35	229	200	179	166	146
Aged 35-65	786	806	752	771	717
Aged over 65	240	236	265	260	253
Total	1255	1242	1196	1197	1116
Average age	50.4	50.9	51.3	51.9	50.4

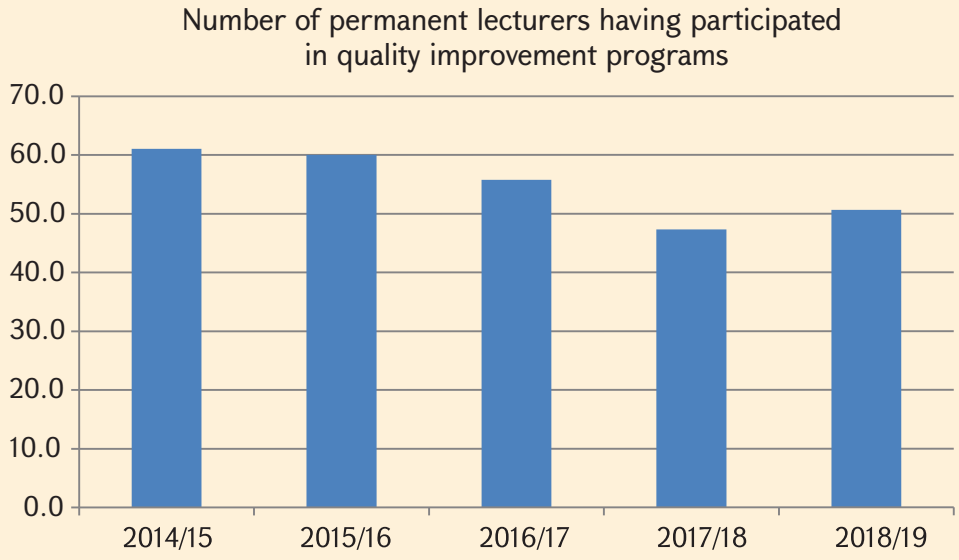
Middle-aged (36-65 years old) lecturers prevail in the main teaching staff. As of 2014/15-2018/19 the number of lecturers aged over 65 exceeded that of 35 year olds. In the same time period the number of young lecturers in the main teaching staff dropped by about 36%.



Indicator 2.8. Ratio of Permanent Lecturers Having Participated in Quality Improvement Programs to Main Teaching Staff

	2014/15	2015/16	2016/17	2017/18	2018/19
Main teaching staff	1255	1242	1196	1197	1116
Number of permanent lecturers having participated in quality improvement programs	766	745	667	566	565
Ratio	61.0	60.0	55.8	47.3	50.6

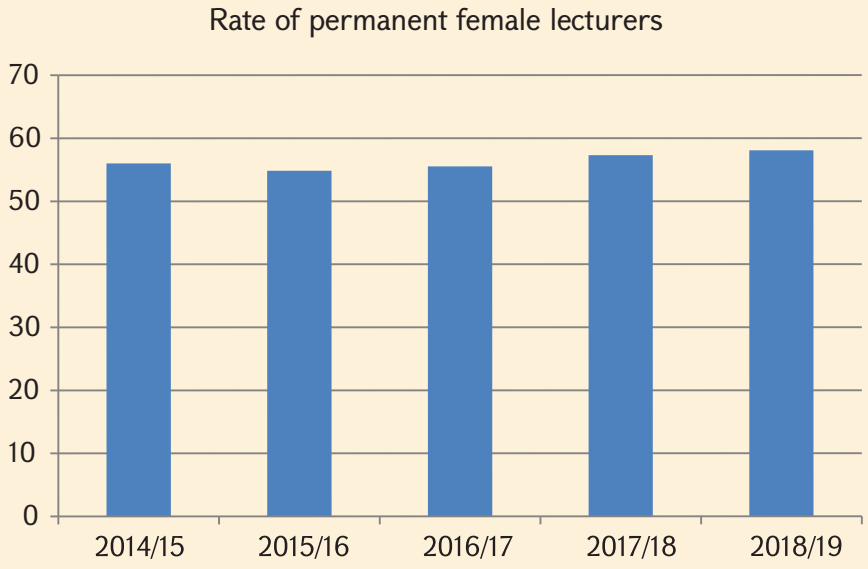
Teaching staff trainings at YSU are a planned and ongoing process. The 2nd stage of the credit-based quality improvement program designed for YSU teaching staff was launched in the academic year 2016/17. Compared with the 1st stage (2011-2016), the rate of lecturers' participation in the first-two years of the 2nd stage declined for objective reasons. The decrease in the number of participating lecturers is also explained by the changes introduced in the structure and content of the program during the 2nd stage. Therefore, in the academic years 2016/17-2018/19, 47-56% of the main teaching staff participated in the quality improvement program.



Indicator 2.9. Rate of Female Lecturers in Main Teaching Staff

	2014/15	2015/16	2016/17	2017/18	2018/19
Main teaching staff	1255	1242	1196	1197	1116
Number of permanent female lecturers	703	681	664	686	648
Rate of female lecturers (%)	56	55	56	57	58

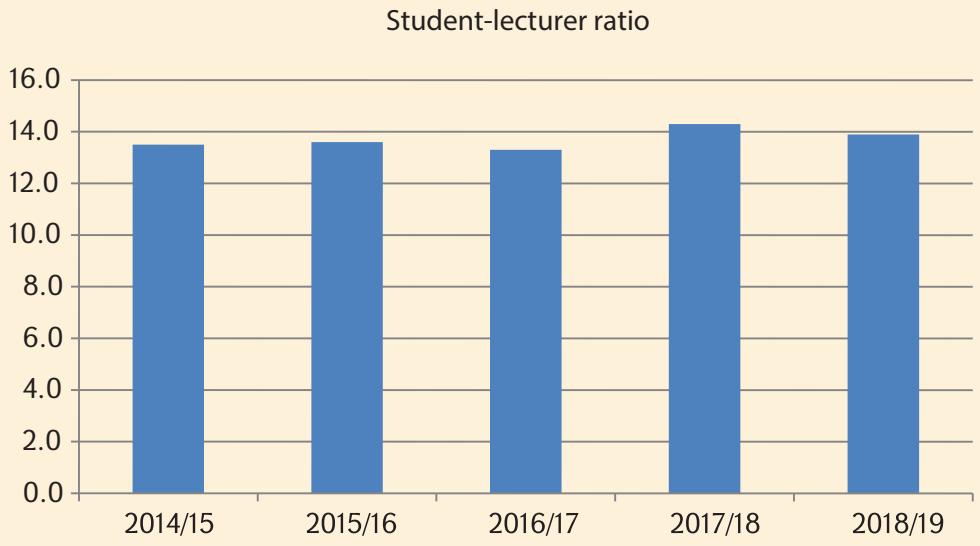
In the academic years 2014/15-2018/19 female lecturers made up 55-58% of the main teaching staff.



Indicator 2.10. Student-Lecturer (Full-Time Position Equivalent) Ratio

	2014/15	2015/16	2016/17	2017/18	2018/19
Overall student body	18743	18944	17954	17338	14774
Teaching positions	1312	1339	1278	1160	1073
Student-lecturer ratio	13.5	13.6	13.3	14.3	13.9

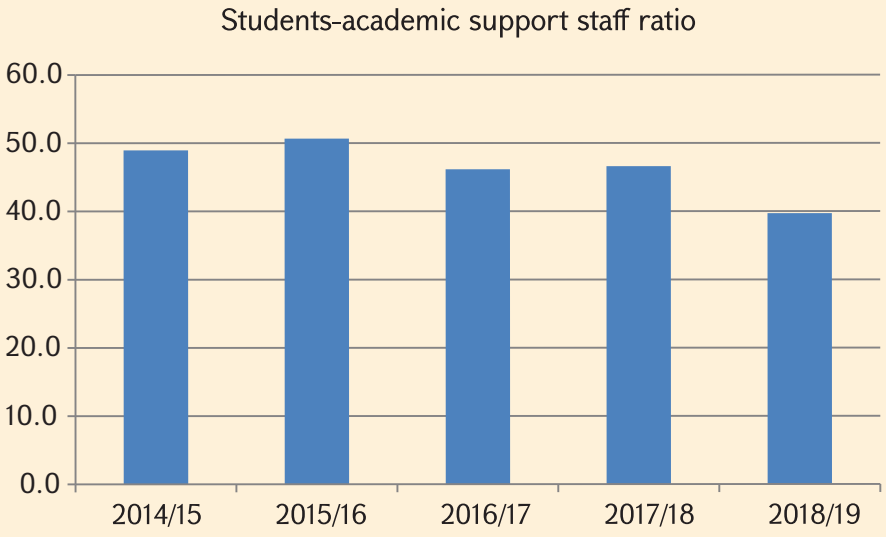
During the last five years the ratio of students to lecturers has been 13,3-13,9, with the exception of the academic year 2017/18 which marked a decrease of about 12% in teaching positions.



Indicator 2.11. Ratio of Total Student Body to Academic Support Staff

	2014/15	2015/16	2016/17	2017/18	2018/19
Total student body	18743	18944	17954	17338	14774
Academic support staff	383	374	389	372	372
Students-academic support staff ratio	48.9	50.7	46.2	46.6	39.7

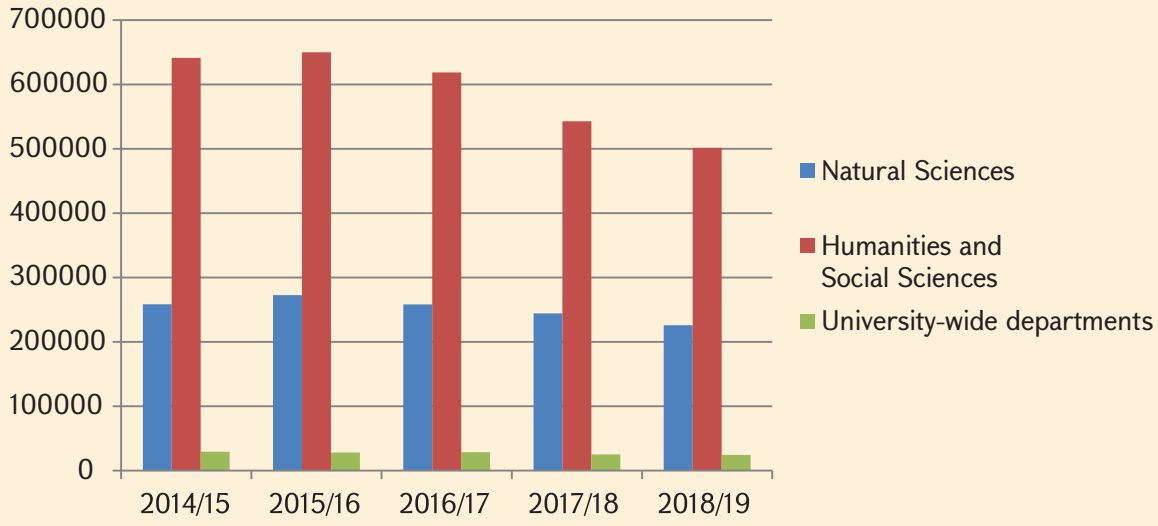
During the academic years 2014/15-2017/18 the students-academic support staff ratio stood at 46.2:50.7. Yet, in 2018/19 those figures dropped to 39,7 because of the downward trend in both the total student body and academic support staff.



Indicator 2.12. Lecturers' Academic Workload According to Academic Fields and Hours

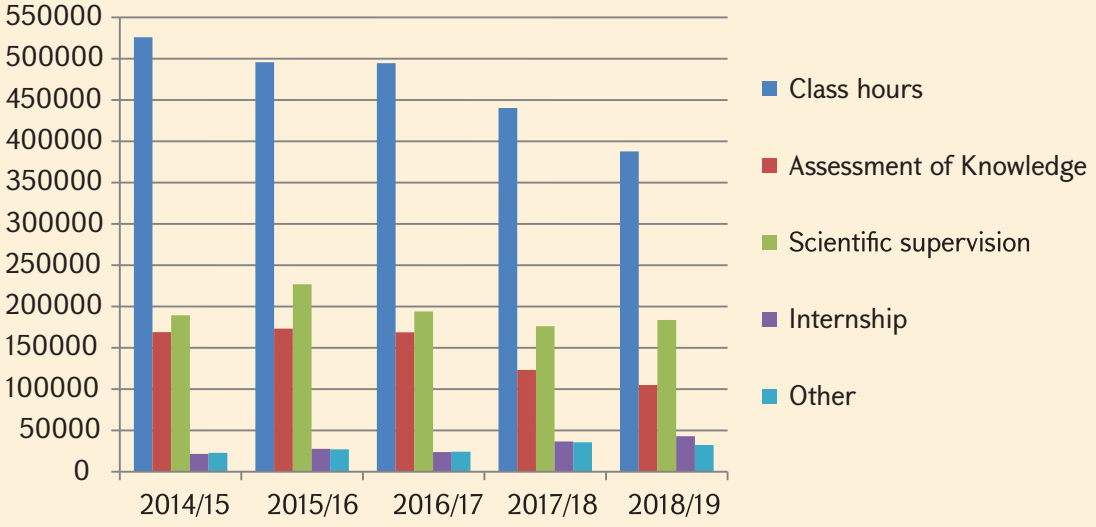
	2014/15	2015/16	2016/17	2017/18	2018/19
Natural Sciences	258454	272699	258339	244464	225971
Humanities and Social Sciences	641202	650118	618758	542747	501548
University-wide departments	29451	28202	28751	25274	24587
Total	**929107**	**951019**	**905848**	**812485**	**752106**

Over the past five academic years and in general the lecturers' workload has been much heavier in the Humanities and Social Sciences than Natural Sciences conditioned by the number of students. Yet, in the given time period efforts have been made to reduce the lecturers' academic workload. As a result, compared with 2014/15, in the 2018/19 academic year it was reduced by 13% in Natural Sciences, 12% in the Humanities and Social Sciences and 17% in university-wide departments.



Indicator 2.13. Distribution of Lecturers' Hours According to Types

	2014/15		2015/16		2016/17		2017/18		2018/19	
Class hours	526018	56.6%	495818	52.1%	494627	54.6%	440415	54.2%	387734	51.6%
Scientific supervision	189439	20.4%	226920	23.9%	194119	21.4%	176205	21.7%	183693	24.4%
Assessment of Knowledge	169134	18.2%	173323	18.2%	168920	18.6%	123408	15.2%	105043	14.0%
Internship	21623	2.3%	27825	2.9%	23857	2.6%	36799	4.5%	43093	5.7%
Other	22893	2.5%	27133	2.9%	24325	2.7%	35658	4.4%	32543	4.3%
Total	**929107**		**951019**		**905848**		**812485**		**752106**	

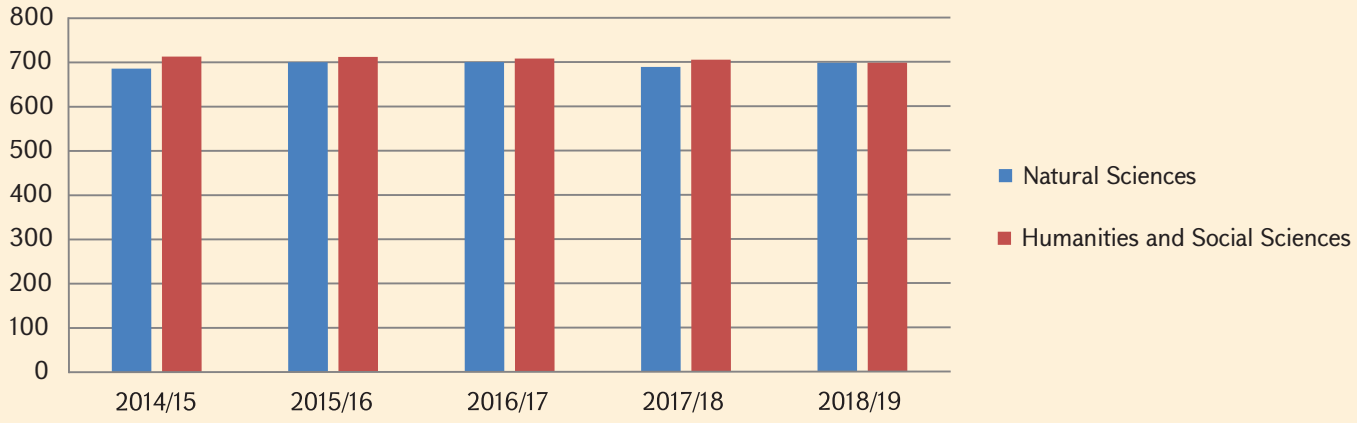


Throughout the academic years 2014/15-2017/18 and in previous years as well class hours made up over 50% of lecturers' academic workload. Supervision of undergraduate papers and Master's theses constituted 20-24% of the overall workload, whereas the assessment of students' knowledge stood at 14-18%. Supervision of internship and other activities accounted for 2-6%. In 2018/19 it was possible to reduce the number of lecturers' class hours (previously 51.6%) as a result of the efforts made to that end. More hours were allocated to the supervision of graduation papers and internship - 24% and 6%, respectively.

Indicator 2.14. Lecturers' Average Annual Academic Workload According to Academic Fields

	2014/15	2015/16	2016/17	2017/18	2018/19
Natural Sciences	686	700	700	689	698
Humanities and Social Sciences	713	712	708	705	698
University-wide departments	810	780	801	723	790
Average university workload	708	711	709	700	701

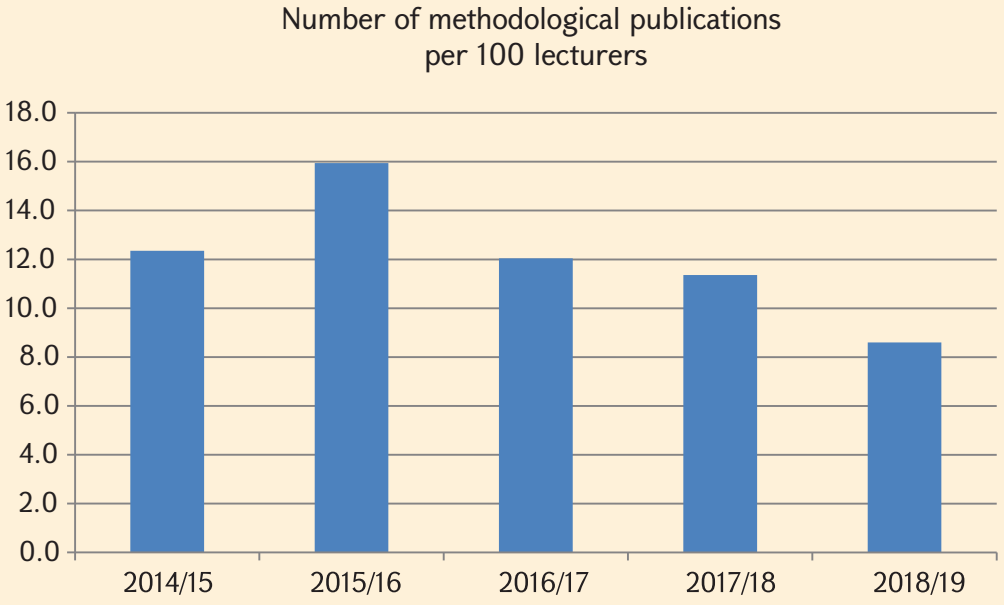
Throughout the academic years 2014/15-2016/17 lecturers' average annual academic workload amounted to nearly 710 hours. Since 2017/18 lecturers' average annual academic workload has been reduced in both Natural Sciences, the Humanities and Social Sciences. Consequently, the average university workload has been comprised of 700 hours for the last two academic years.



Indicator 2.15. Number of Methodological Publications per 100 Lecturers

	2014/15	2015/16	2016/17	2017/18	2018/19
Amount of methodological materials	155	198	144	136	96
Main Teaching Staff	1255	1242	1196	1197	1116
Number of methodological publications per 100 lecturers	12.4	15.9	12.0	11.4	8.6

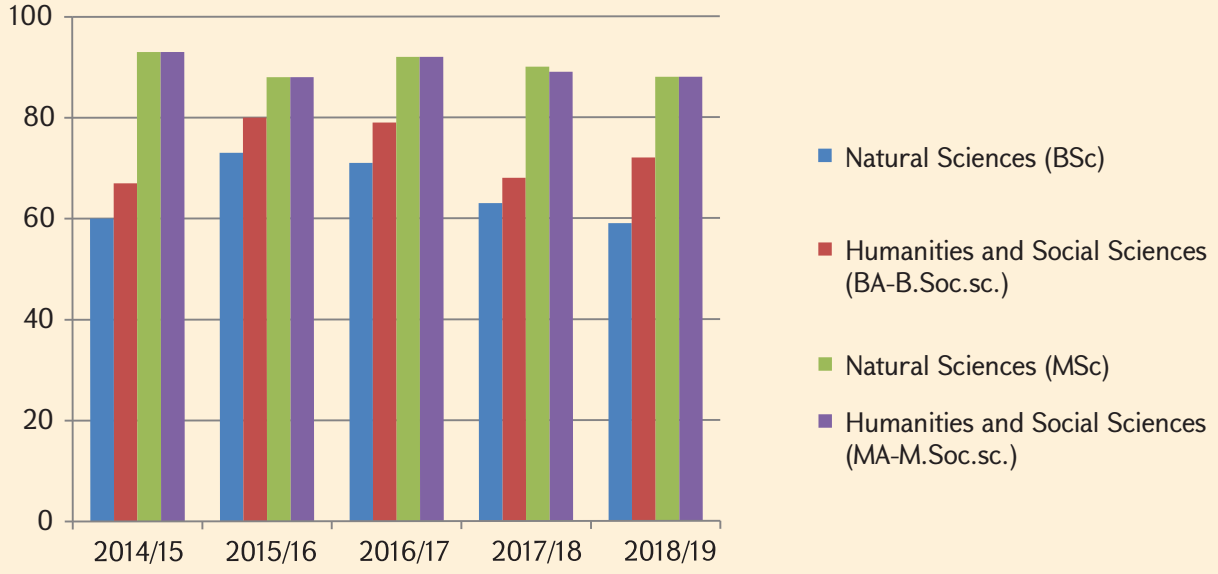
During the academic years 2014/15-2017/18 the number of methodological publications per 100 lecturers ranged between 11 and 16. In 2018/19 both the main teaching staff and the number of methodological materials experienced a reduction to 8.6.



Indicator 2.16. Average Academic Performance Rate According to Academic Degrees and Fields

	2014/15	2015/16	2016/17	2017/18	2018/19
Bachelor's program (%)	**64**	**77**	**75**	**66**	**68**
Natural Sciences (BSc)	60	73	71	63	59
Humanities and Social Sciences (BA-B.Soc.sc.)	67	80	79	68	72
Master's program (%)	**93**	**88**	**92**	**90**	**88**
Natural Scienc (MSc)	93	88	92	90	88
Humanities and Social Sciences (MA-M.Soc.sc.)	93	88	92	89	88

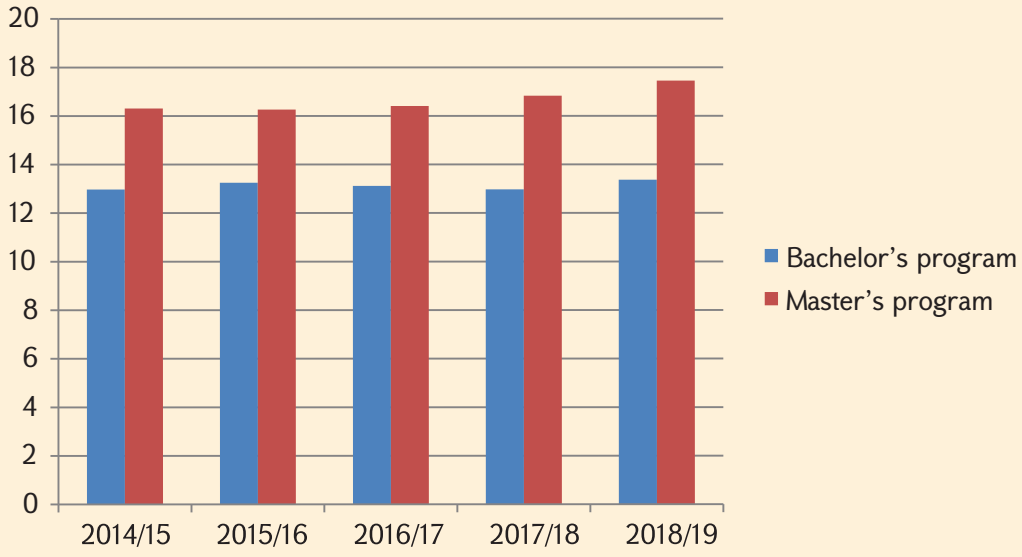
During the academic years 2014/15-2018/19 the average academic performance rate in the Bachelor's Natural Sciences program fluctuated from 59% to 73%. The figures varied from 67% to 80% in case of the Humanities and Social Sciences. In the Master's program, the rate was higher in both fields ranging between 88% and 93%.



Indicator 2.17. GPA According to Academic Degrees

	2014/15	2015/16	2016/17	2017/18	2018/19
Bachelor's program	12.97	13.25	13.12	12.97	13.37
Master's program	16.31	16.26	16.41	16.83	17.45

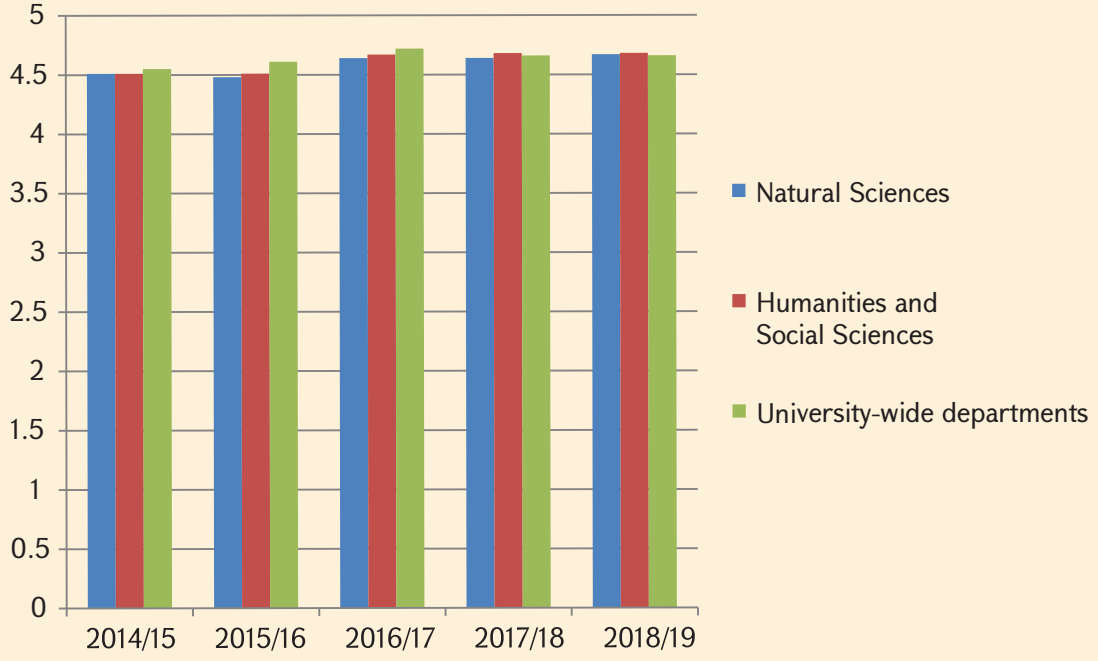
During the academic years 2014/15-2018/19 the grade point average (GPA) of Bachelor's degree students was 13. In the same time period the GPA of Master's degree students was 16-17. To note, in 2018/19 the GPA of both Bachelor's and Master's degree students grew slightly.



Indicator 2.18. Average Scores of Student Survey According to Academic Fields

	2014/15	2015/16	2016/17	2017/18	2018/19
Natural Sciences	4.51	4.48	4.64	4.64	4.67
Humanities and Social Sciences	4.51	4.51	4.67	4.68	4.68
University-wide departments	4.55	4.61	4.72	4.66	4.66
YSU average score	**4.51**	**4.51**	**4.66**	**4.67**	**4.68**

To improve the teaching process, YSU regularly conducts various surveys such as the student survey on teaching quality and productivity. To increase the efficiency level of the teaching staff assessment mechanisms, the survey methods, procedures and criteria are regularly reviewed and refined. The average scores of student survey were 4.5 and 4.7 in the academic years 2014/15-2015/16 and 2016/17-2018/19, respectively.



AREA 3. Resources and Management

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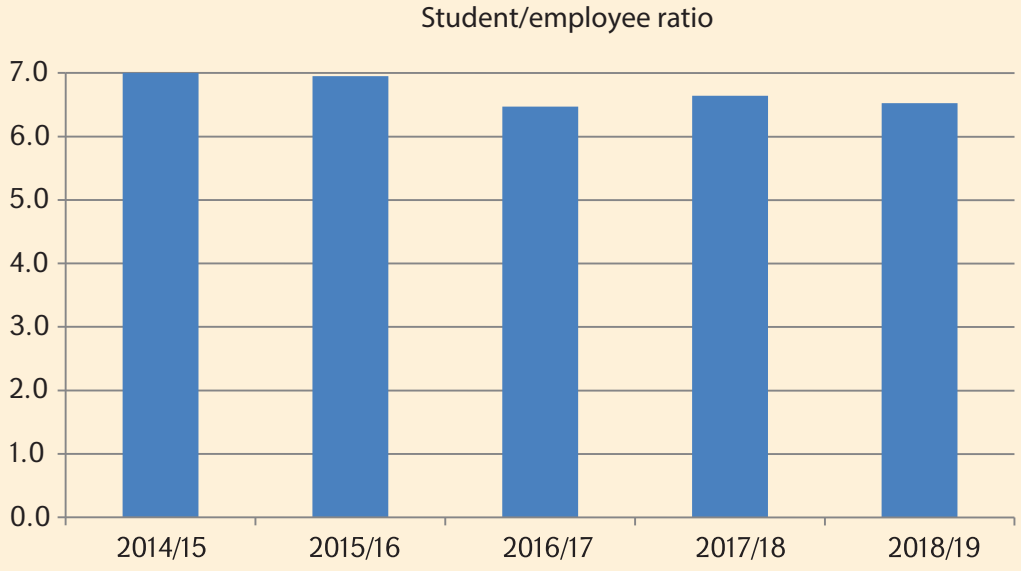
Indicator 3.1. Total Number of Positions for Employees; Student/Employee Ratio

	2014/15	2015/16	2016/17	2017/18	2018/19
Total number of positions for employees	2654	2726	2774	2610	2263
Total student body	18743	18944	17954	17338	14774
Student/employee ratio	7.1	6.9	6.5	6.6	6.5

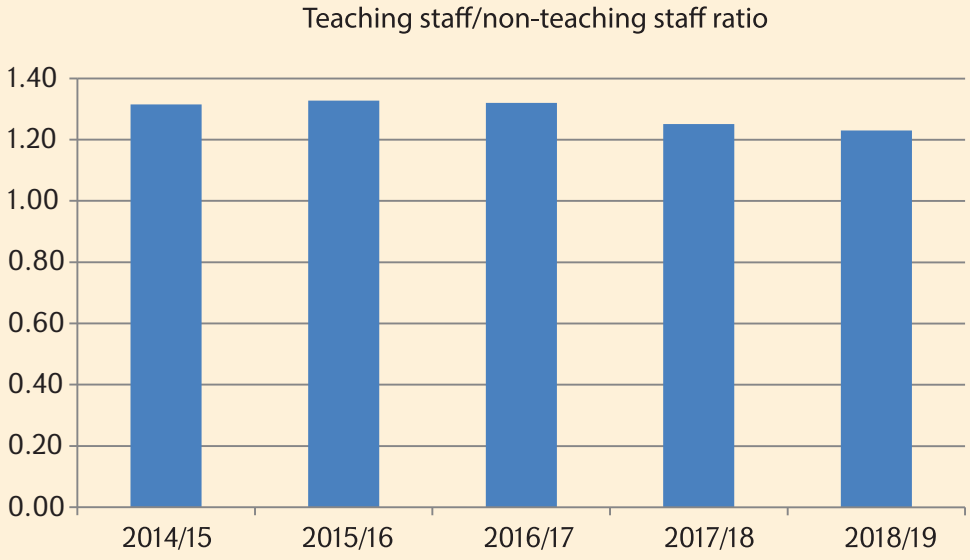
During the academic years 2014/15-2018/19 the total number of positions for employees (including hourly paid) declined by 15%. In the same time period the total student body experienced a reduction of 21%. Alongside this, the student/employee ratio dropped from 7.1 to 6.5.



Indicator 3.2. Teaching Staff/Non-Teaching Staff (Full-Time Position Equivalent) Ratio

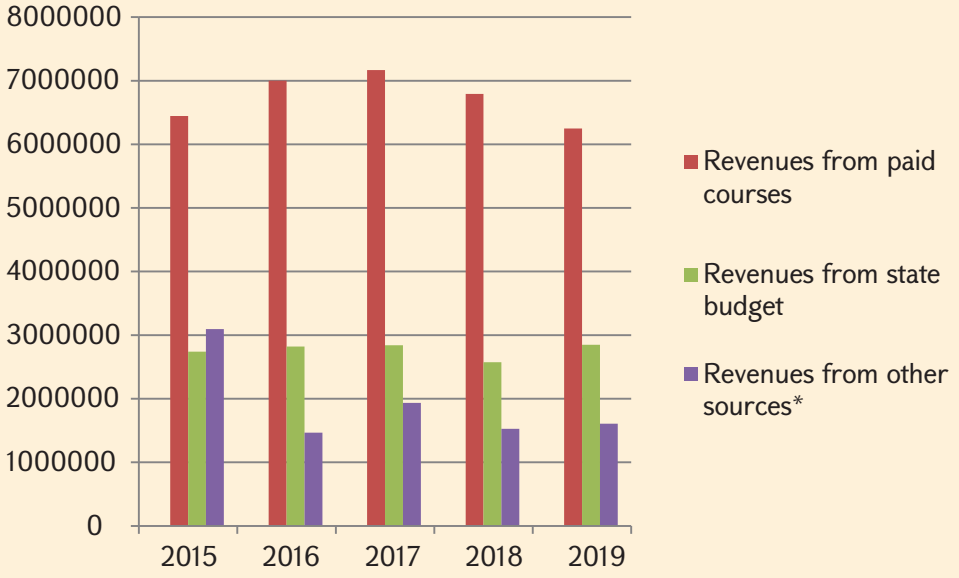
	2014/15	2015/16	2016/17	2017/18	2018/19
Teaching positions	1306	1281	1278	1160	1115
Non-teaching positions	993	965	968	927	906
Teaching staff/non-teaching staff ratio	1.32	1.33	1.32	1.25	1.23

During the academic years 2014/15-2016/17 the teaching staff/non-teaching staff ratio was 1.32. In 2017/18-2018/19 it declined as a result of a reduction in the number of both teaching and non-teaching positions and currently varies in the range of 1.23 to 1.25.



Indicator 3.3. Annual Revenues (AMD in thousands)

	2015	2016	2017	2018	2019
Revenues from paid courses	6,445,813	7,001,935	7,167,507	6,792,332	6,248,789
Revenues from state budget	2,740,679	2,820,186	2,840,741	2,573,194	2,848,794
Revenues from other sources*	3,095,666	1,465,955	1,934,885	1,527,857	1,608,613
Total annual revenues	12,282,158	11,288,076	11,943,133	10,893,383	10,706,196



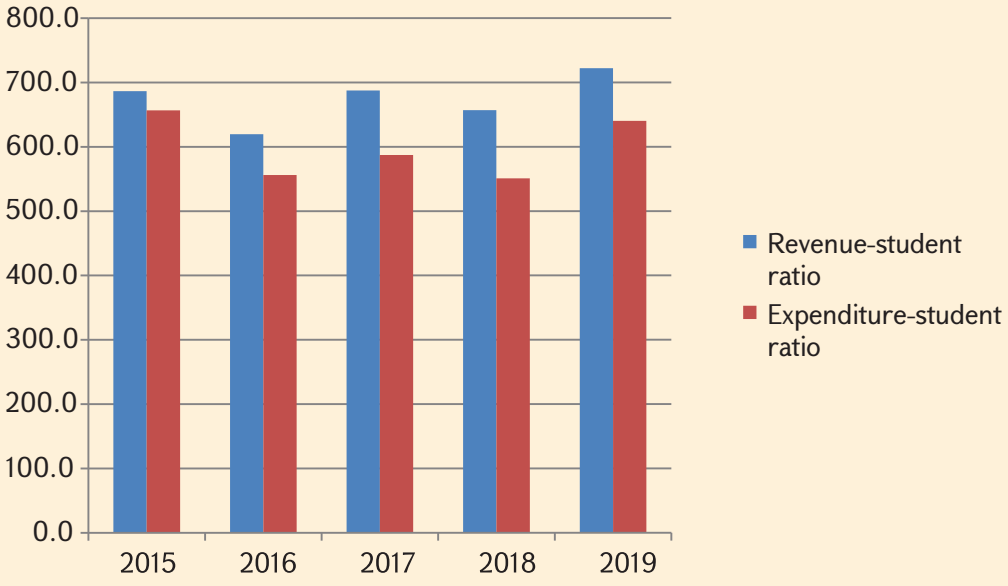
Compared with 2015, in 2019 the revenues generated from paid courses dropped by 3% conditioned by the decrease in the number of students. In the same time period the revenues coming from the state budget rose by 4%. In 2015-2019 the annual revenues fell by 13%.

*The growth in the revenues of 2015 was conditioned by the sale of the YSU guesthouse. The funds obtained from the sale were invested in the construction of a sports complex.

Indicator 3.4. Revenue-Student and Expenditure-Student Ratios (AMD in thousands)

	2015	2016	2017	2018	2019
Revenues	12,282,158	11,288,076	11,943,133	10,893,383	10,706,196
Total student body	17889	18214	17369	16580	14823
Revenue-student ratio	**686.6**	**619.7**	**687.6**	**657.0**	**722.3**
Expenditures	11,749,282	10,130,236	10,200,060	9,135,745	9,491,435
Total student body	17889	18214	17369	16580	14823
Expenditure-student ratio	**656.8**	**556.2**	**587.3**	**551.0**	**640.3**

Compared with 2015, in 2019 the ratio of revenues to students rose by 5%. In 2015-2018 the expenditure-student ratio dropped by 16%, whereas in 2019 it jumped up by the same amount.

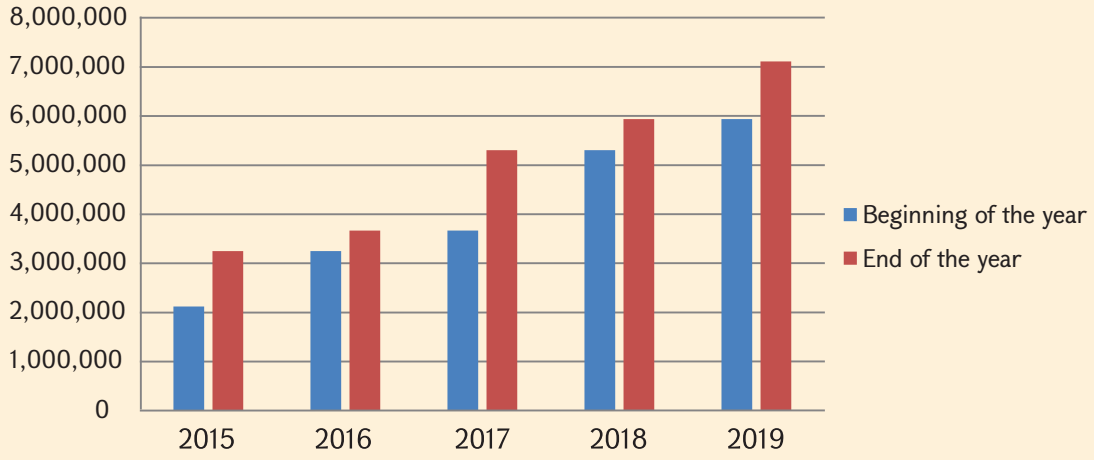


Indicator 3.5. Financial Resource Balance at the Beginning and at the End of the Year (AMD in thousands)

	2015	2016	2017	2018	2019
Beginning of the year	2,120,631	3,251,636	3,667,949	5,304,702	5,937,580
End of the year	3,251,636	3,667,949	5,304,702	5,937,580	7,111,114

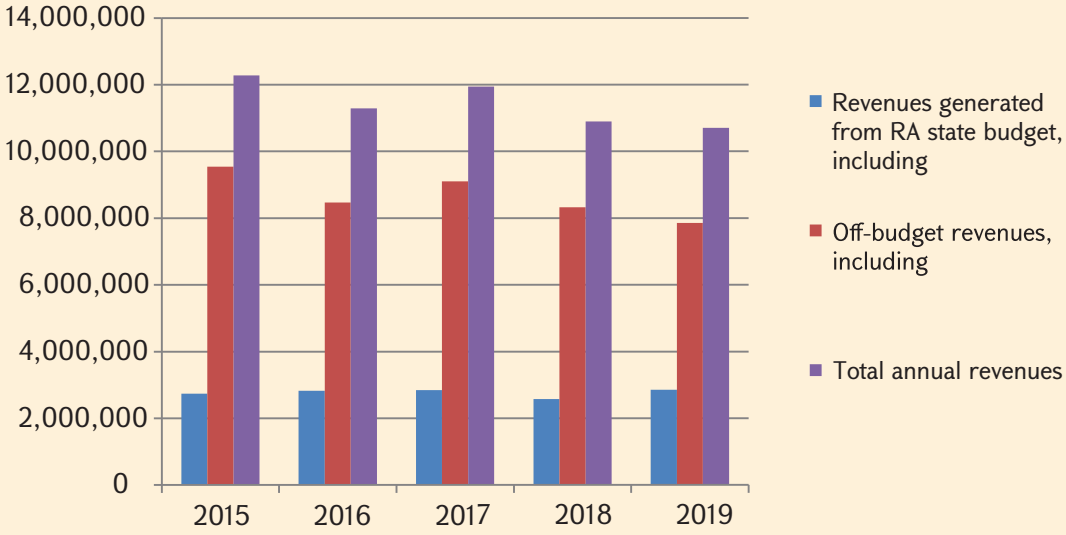
Compared with 2015, the financial resource balance almost tripled at the beginning of 2019 and more than doubled at the end of the same year. This comes to prove that the university's reserve fund has grown considerably.

Balance at the end/beginning of the year (AMD in thousands)



Indicator 3.6. Ratio of State-Budget and Off-Budget Revenues to Total Revenues (AMD in thousands)

	2015	2016	2017	2018	2019
Total annual revenues	**12,282,158**	**11,288,076**	**11,943,133**	**10,893,383**	**10,706,196**
Revenues generated from RA state budget, including	**2,740,679**	**2,820,186**	**2,840,741**	**2,573,194**	**2,848,794**
Tertiery and postgraduate education programs	1,634,780	1,625,612	1,641,378	1,772,059	1,640,995
Scientific and research-engineering programs	892,147	995,836	994,074	778,665	1,189,799
Other programs	213,753	198,738	205,289	22,471	18,000
Off-budget revenues, including	**9,541,479**	**8,467,890**	**9,102,392**	**8,320,189**	**7,857,402**
Paid tertiery and postgraduate education programs	*6,445,813*	*7,001,935*	*7,167,507*	*6,792,332*	*6,248,789*
Grants and charity	*797,013*	*560,357*	*1,327,544*	*871,396*	*760,907*
Additional academic services	*82,087*	*91,153*	*94,672*	*131,610*	*115,775*
Other entrepreneurial services	*119,185*	*109,063*	*136,034*	*131,435*	*212,538*
Interest revenues received from banks	*172,875*	*387,346*	*302,836*	*363,151*	*481,905*
Other revenues	*1,924,507*	*318,036*	*73,799*	*30,265*	*37,488*
Ratio of state-budget revenues to total revenues (%)	**22.3**	**25.0**	**23.8**	**23.6**	**26.6**
Ratio of off-budget revenues to total revenues(%)	**77.7**	**75.0**	**76.2**	**76.4**	**73.4**



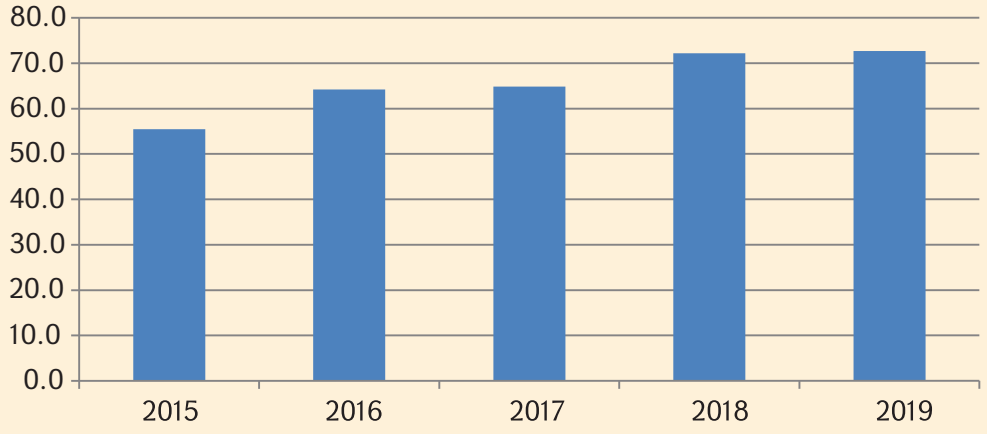
The money generated from paid academic programs represented about 79% of the off-budget revenues in 2019. Those programs also include paid postgraduate courses. In 2015-2019 the revenues generated from the state budget accounted for 22-27%, whereas the off-budget revenues - 73-78% of the total annual revenues.

Indicator 3.7. Amount of Education Expenses in Total Expenditures and Education Expenses per Student

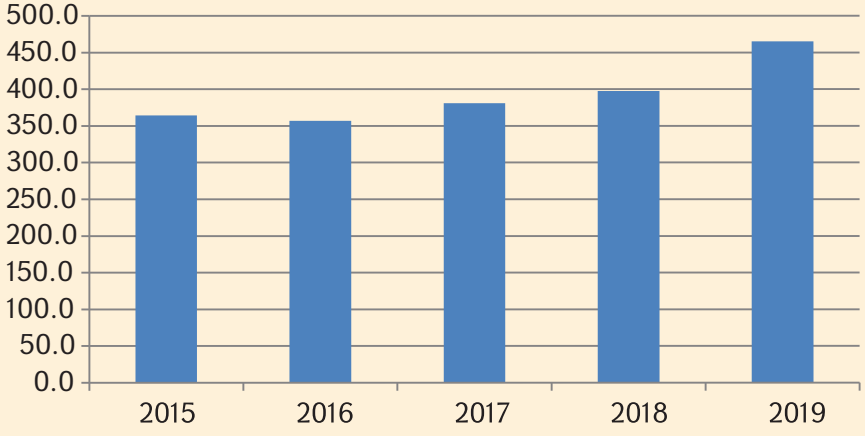
	2015	2016	2017	2018	2019
Total annual expenditures	11,749,282	10,130,236	10,200,060	9,135,745	9,491,435
Education expenses	6,518,786	6,504,794	6,613,012	6,593,012	6,896,297
Amount of education expenses in total expenditures (%)	55.5	64.2	64.8	72.2	72.7
Total student body	17889	18214	17369	16580	14823
Education expenses per student	364.4	357.1	380.7	397.6	465.2

In 2015-2019 the amount of education expenses in total expenditures was in the range of 64% to 73% (except for 2015 (55,5%) due to the construction of the sports complex). In 2015-2019 the figures for educaton expenses per student jumped up by about 28%.

Amount of education expenses in total expenditures (%)



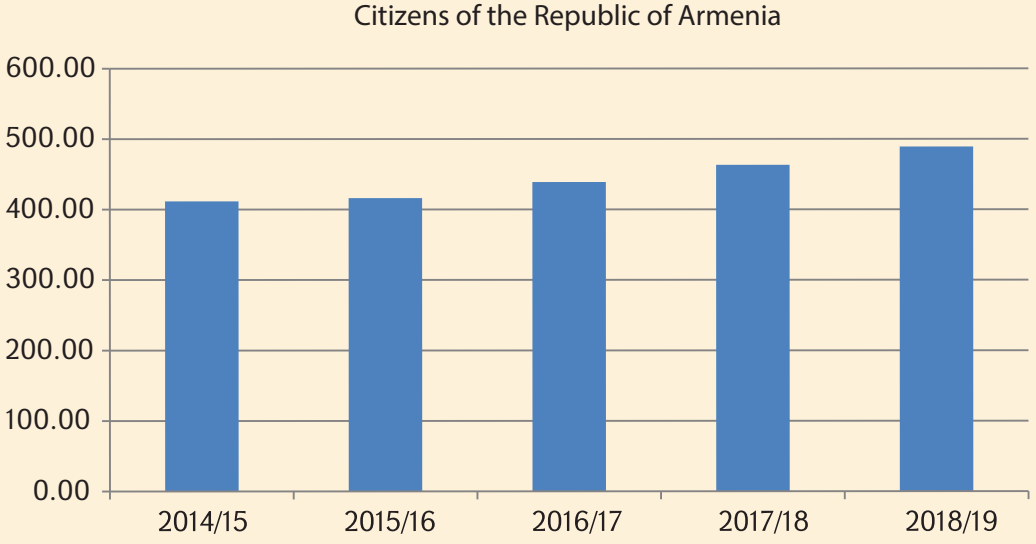
Education expenses per student



Indicator 3.8. Average Tuition Fee (AMD in thousands)

	2014/15	2015/16	2016/17	2017/18	2018/19
Citizens of the Republic of Armenia	411.7	416.2	438.9	463.1	489

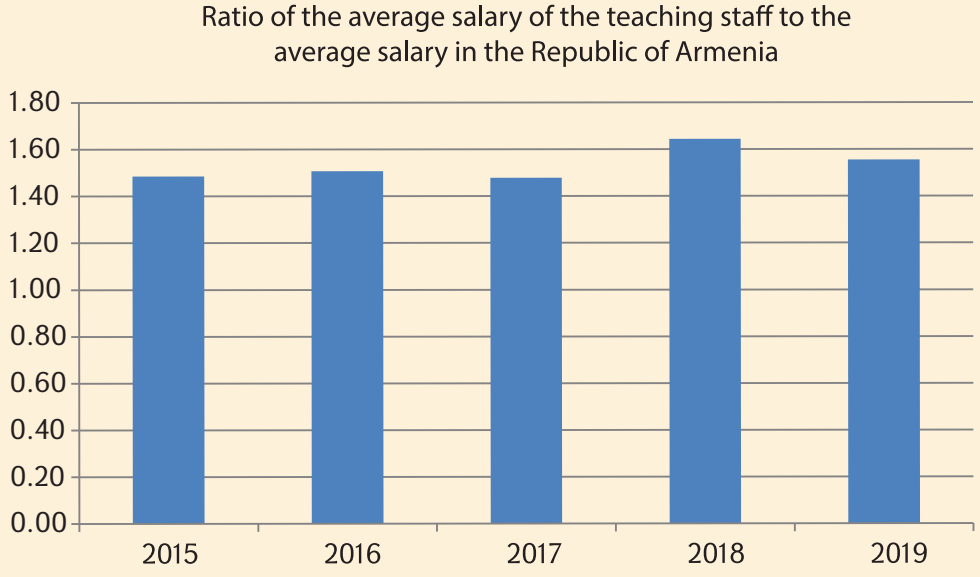
The average tuition fee for the citizens of the Republic of Armenia studying at Yerevan State University increased by over 18% in 2014/15-2018/19.



Indicator 3.9. Average Salary of the Teaching Staff and Its Ratio to the Average Salary in the Republic of Armenia

	2015	2016	2017	2018	2019
Full Professor	310,000	329,000	329,000	360,000	360,000
Associate Professor	265,000	283,000	283,000	308,000	308,000
Assistant Professor	229,000	246,000	246,000	265,000	265,000
Lecturer	200,000	218,000	218,000	232,000	232,000
Teachers' average salary	255,000	263,000	263,000	284,000	284,000
Average salary in the Republic of Armenia	171,615	174,445	177,817	172,727	182,673
Ratio of the average salary of the teaching staff to the average salary in the Republic of Armenia	1.49	1.51	1.48	1.64	1.55

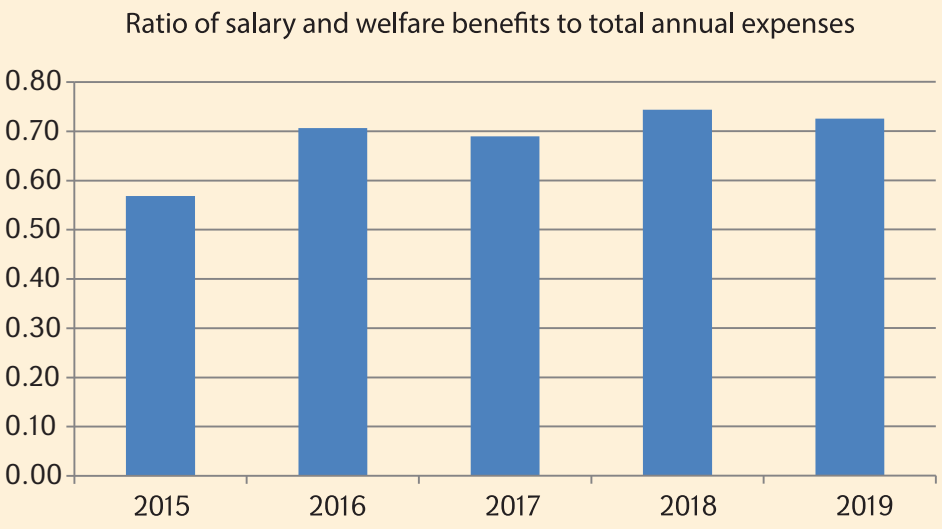
The average salary of the teaching staff has increased by 11% over the last five years. A growth of 11% has been observed in the average salary in the Republic of Armenia. Thus, the ratio of the average salary of YSU teaching staff to the average salary in the Republic of Armenia is in the range of 1.48 to 1.64.



Indicator 3.10. Ratio of Salary and Welfare Benefits to Total Annual Expenses (AMD in thousands)

	2015	2016	2017	2018	2019
Salary expenditures	6,676,703	7,153,249	7,032,363	6,789,867	6,886,355
Total annual expenses	11,749,282	10,130,236	10,200,060	9,135,745	9,491,435
Ratio of salary and welfare benefits to total annual expenses	0.57	0.71	0.69	0.74	0.73

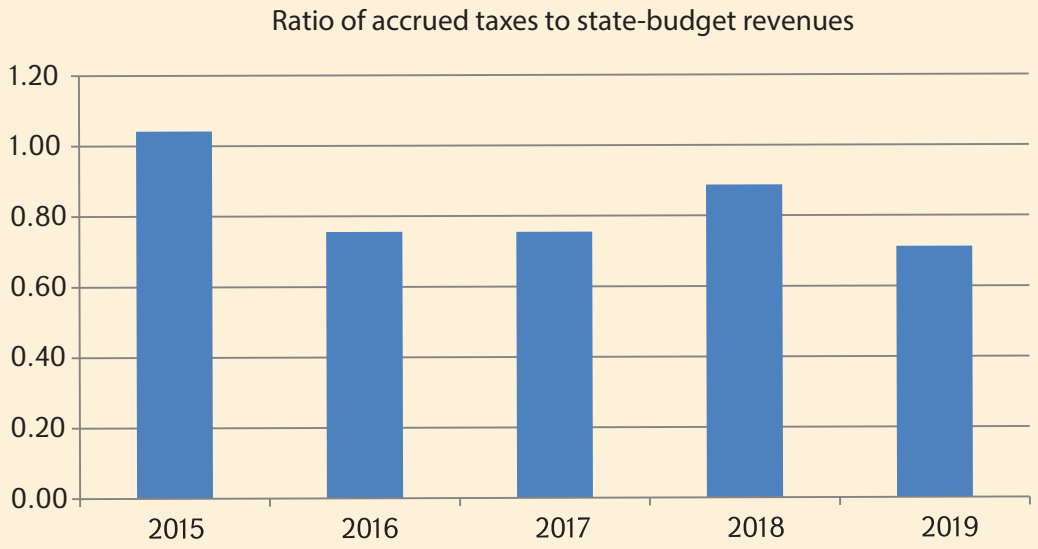
The ratio of salary and welfare benefits to total annual expenses ranged between 69% and 74% in 2015-2019 (except for the year 2015 (57%), due to the construction of the sports complex).



Indicator 3.11. Ratio of Accrued Taxes to State-Budget Revenues (AMD in thousands)

	2015	2016	2017	2018	2019
Paid taxes, state duties and payments	2,855,352	2,132,809	2,143,959	2,284,094	2,028,394
Revenues from state budget	2,740,679	2,820,186	2,840,741	2,573,194	2,848,794
Ratio of accrued taxes to state-budget revenues	1.04	0.76	0.75	0.89	0.71

In 2016-2019 Yerevan State University paid 71-89% of its revenues generated from the state budget back to the state budget in the form of taxes, state duties and other mandatory fees. In 2015 Yerevan State University paid back to the state budget as much as it had recieved (due to the sale of the YSU guesthouse).



AREA 4. Infrastructures

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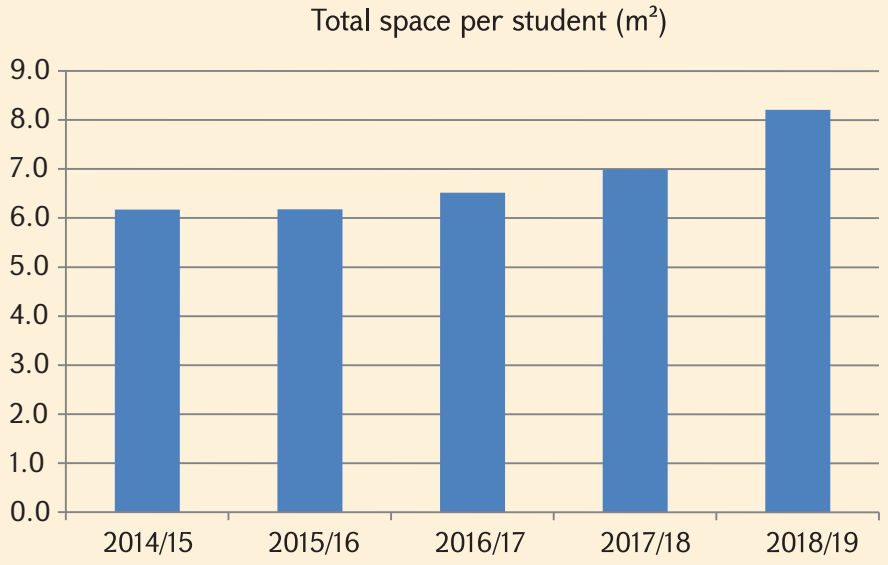
Indicator 4.1. Total Space per Student

	2014/15	2015/16	2016/17	2017/18	2018/19
Total space of Yerevan State University (m^2)	115722	117005	117005	121325	121325
Total student body	18743	18944	17954	17338	14774
Total space per student (m^2)	6.2	6.2	6.5	7.0	8.2

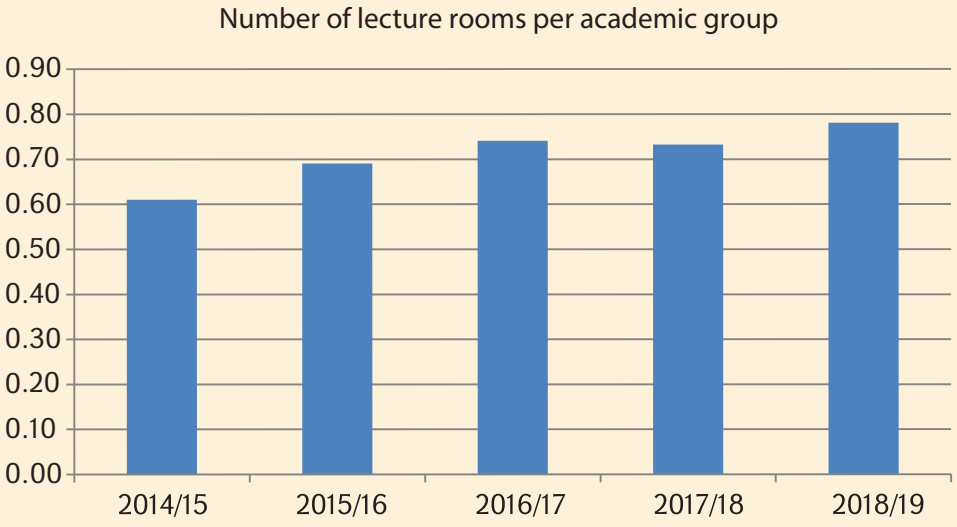
In the academic years 2014/15-2017/18 the total space per student was in the range of 6.2-7m^2. In 2018/19 the figures grew to 8.2 m^2.



Indicator 4.2. Number of Lecture Rooms per Academic Group

	2014/15	2015/16	2016/17	2017/18	2018/19
Number of academic groups (an average of 30 students per group)	864	818	765	788	748
Number of lecture rooms/offices	527	565	567	577	584
Number of lecture rooms per academic group	0.61	0.69	0.74	0.73	0.78

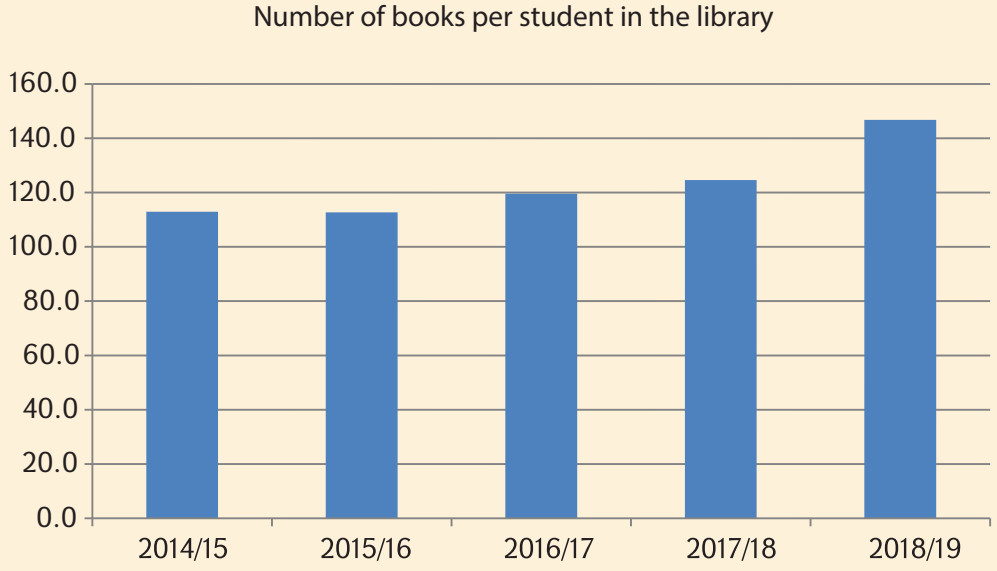
In 2018/19 the number of academic groups dropped by 13% compared with 2014/15 as a result of the decrease in the percentage of students. In 2014/15-2018/19 the number of lecture rooms increased with 0,78 lecture room per academic group as of 2018/19.



Indicator 4.3. Number of Books per Student in the Library

	2014/15	2015/16	2016/17	2017/18	2018/19
Number of books	2,116,927	2,134,678	2,147,248	2,160,026	2,168,198
Total student body	18743	18944	17954	17338	14774
Number of books per student in the library	112.9	112.7	119.6	124.6	146.8

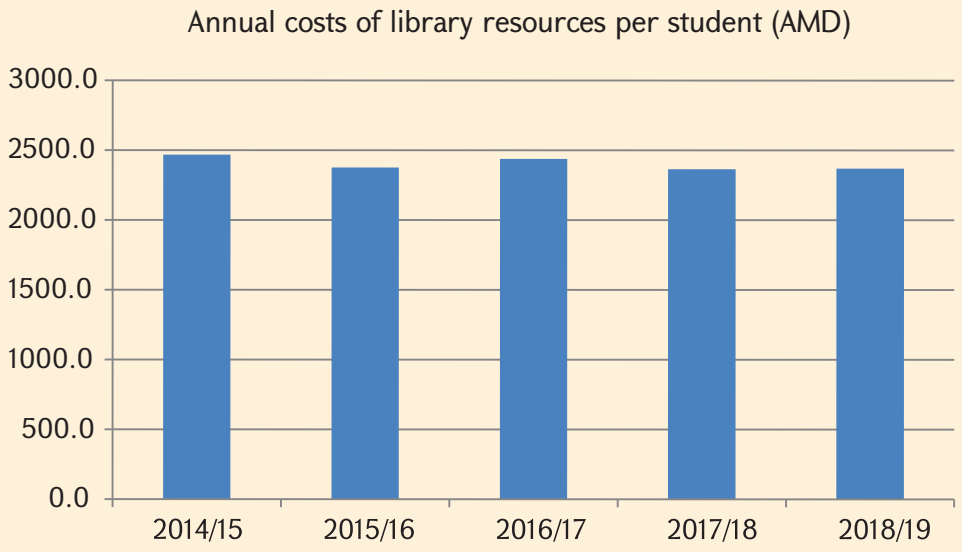
The total number of books in the Sarkis and Marie Izmirlian Library of Yerevan State University grew by 2% in 2014/15-2018/19 amounting to 2,168198. During the same time period the number of books per student fluctuated between 113 and 147.



Indicator 4.4. Annual Costs of Library Resources per Student; Annual Number of New Books and Magazines

	2014/15	2015/16	2016/17	2017/18	2018/19
Annual number of new books	12,258	17,751	12,570	12,778	8,172
Annual number of new magazines	4,840	4,840	4,840	4,840	4,840
Annual costs of library resources (AMD in thousands)	46,235	45,000	43,750	41,000	35,000
Total student body	18743	18944	17954	17338	14774
Annual costs of library resources per student (AMD)	2466.8	2375.4	2436.8	2364.7	2369.0

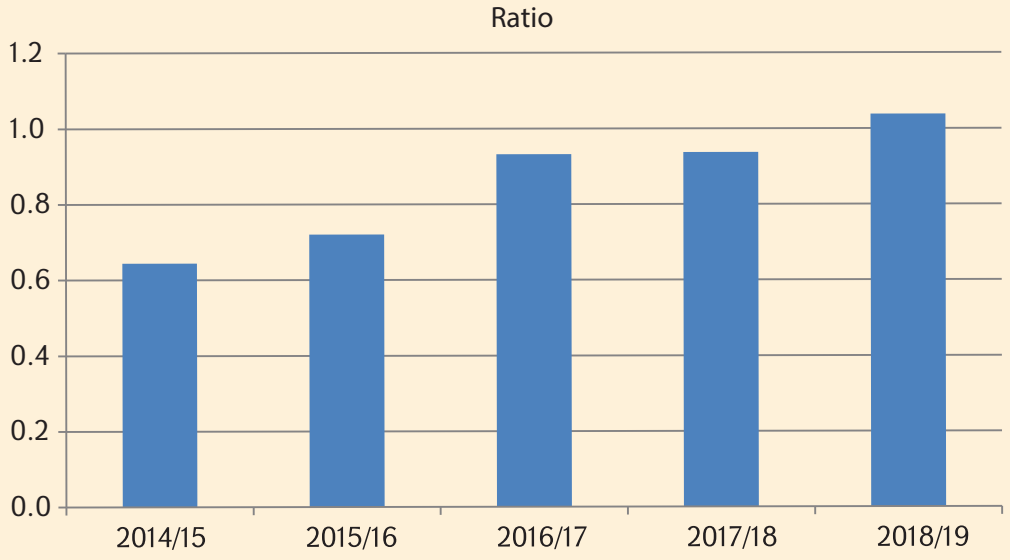
The annual costs of library resources per student have been reduced by 4% over the last five years.



Indicator 4.5. Ratio of Annual Number of Library Card Holders to Total Student Body and Main Teaching Staff

	2014/15	2015/16	2016/17	2017/18	2018/19
Annual number of library card holders	12890	14540	17853	17369	16496
Main teaching staff and total student body	19998	20186	19150	18535	15890
Ratio	0.6	0.7	0.9	0.9	1.0

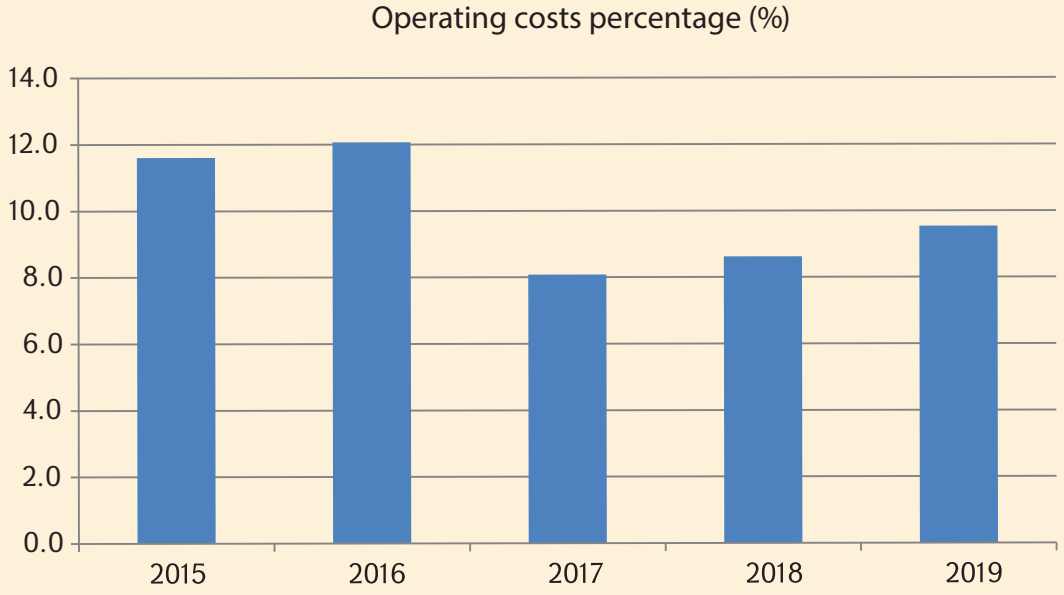
Compared with 2014/15, the annual number of library card holders rose by 28% in 2018/19.



Indicator 4.6. Operating Costs Percentage in YSU Total Expenditures (AMD in thousands)

	2015	2016	2017	2018	2019
Buildings operation costs	1,363,217	1,361,811	965,571	939,465	905,411
Total annual expenditures	11749282	11,288,076	11,943,133	10,893,383	9,491,435
Operating costs percentage (%)	11.6	12.1	8.1	8.6	9.5

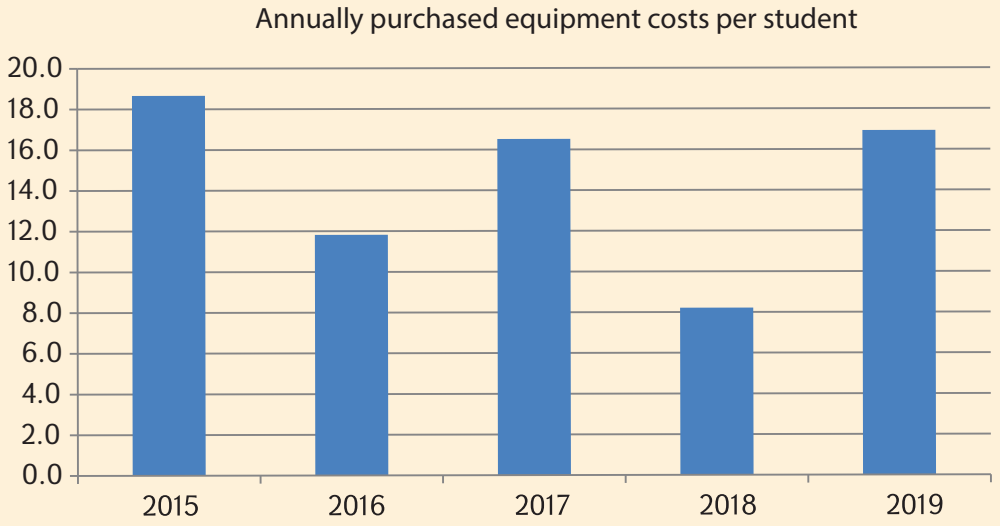
In 2015-2018 the percentage of operating costs in total annual expenditures dropped by 26% due to an overall decrease in construction costs. Compared with 2018 the figures grew by 11% in 2019.



Indicator 4.7. Annually Purchased Equipment Costs per Student (AMD in thousands)

	2015	2016	2017	2018	2019
Annually purchased equipment costs	349,805	224,015	296,600	142,397	250,050
Total student body	18743	18944	17954	17338	14774
Annually purchased equipment costs per student	18.7	11.8	16.5	8.2	16.9

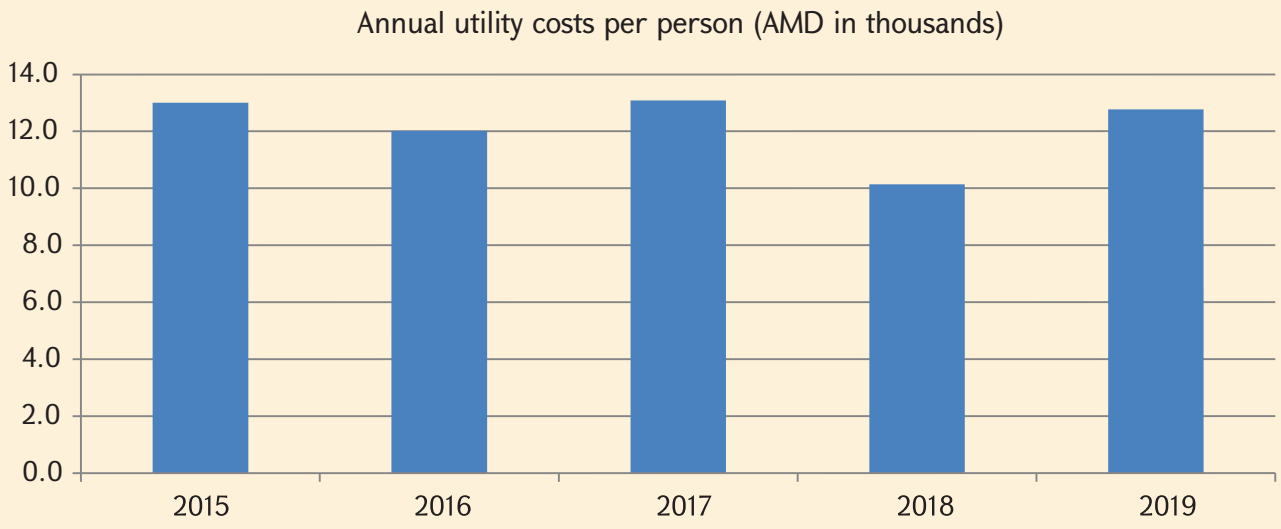
Compared with the year 2011, the annually purchased equipment costs fell by about 29% in 2019. Yet, due to a decrease in the total student body, the annually purchased equipment costs per student have grown over the past four years reaching 16.9 thousand AMD as of 2019.



Indicator 4.8. Annual Utility Costs; Annual Utility Costs per Person (AMD in thousands)

	2015	2016	2017	2018	2019
Annual electricity costs	139,755	137,176	136,637	110,230	100,529
Annual gas costs	96,558	92,603	102,180	65,195	96,469
Annual water supply and drainage costs	21,605	20,056	20,062	17,960	14,456
Annual scavenging and disinfection costs	7,199	7,206	8,353	8,006	8,273
Annual utility costs	265,117	257,041	267,231	201,392	219,727
Total number of students and employees	20391	21398	20426	19872	17210
Annual utility costs per person	13.0	12.0	13.1	10.1	12.8

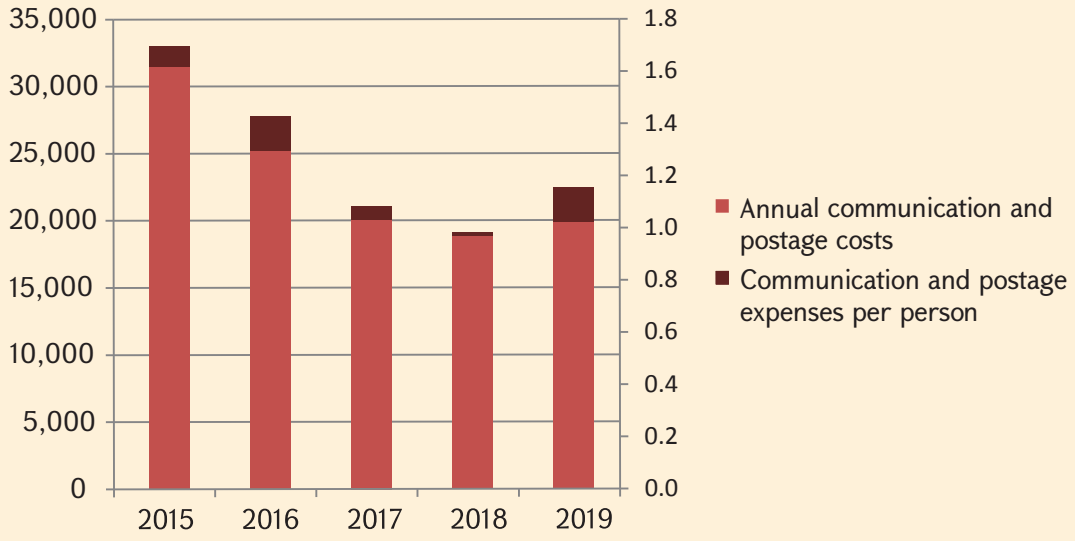
The annual utility costs decreased by 17% in 2015-2019. During the same time period the annual utility costs per person was in the range of 10-13 thousand.



Indicator 4.9. Communication and Postage Costs: Communication and Postage Costs per Person (AMD in thousands)

	2015	2016	2017	2018	2019
Telephone costs	17,037	11,919	10,540	8,853	7,906
Internet costs	14,682	14,647	9,844	9,837	11,598
Postage costs	1,398	1,336	823	601	534
Annual communication and postage costs	33,117	27,901	21,206	19,290	20,038
Total number of student body and employees	20391	21398	20426	19782	17210
Communication and postage expenses per person	1.6	1.3	1.0	1.0	1.2

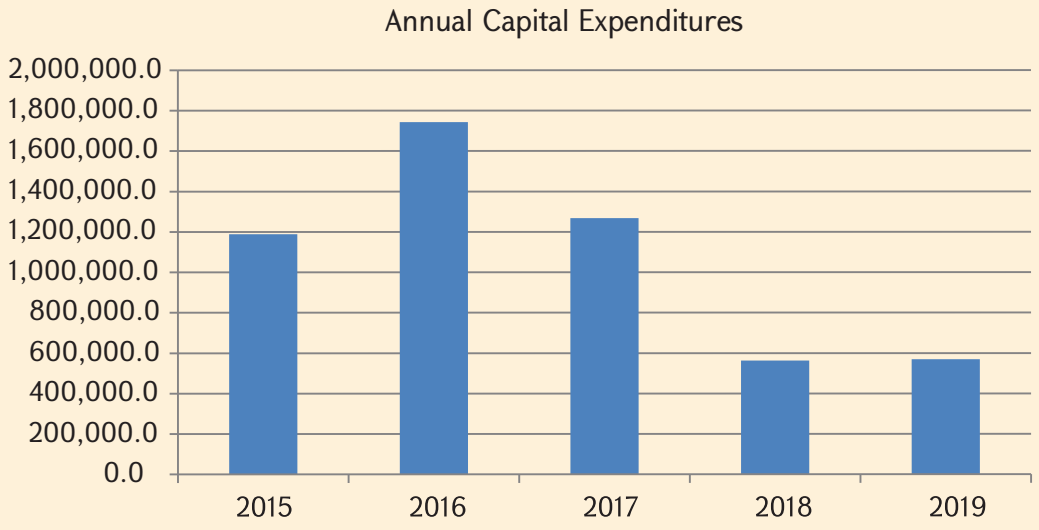
During the given time period the annual communication and postage costs fell by 39 thousand. The communication and postage expenses per person dropped from 1600 to 1200 because of the decrease in the total number of employees.



Indicator 4.10. Annual Capital Expenditures (AMD in thousands)

	2015	2016	2017	2018	2019
Laboratory equipment	255,907	108,672	164,239	79,670	165,534
Computer equipment	64,307	71,461	88,859	33,542	71,261
Furniture	32,194	39,012	32,459	21,219	76,927
Vehicles	34,840	30,400	0	0	0
Intangible assets	4,503	4,081	4,299	5,943	4,653
Other equipment	117,435	49,564	76,948	35,758	22,428
Full renovation costs	679,357	1,439,433	901,504	386,742	228,635
Total	1,188,543.0	1,742,622.4	1,268,308.3	562,874.6	569,437.5

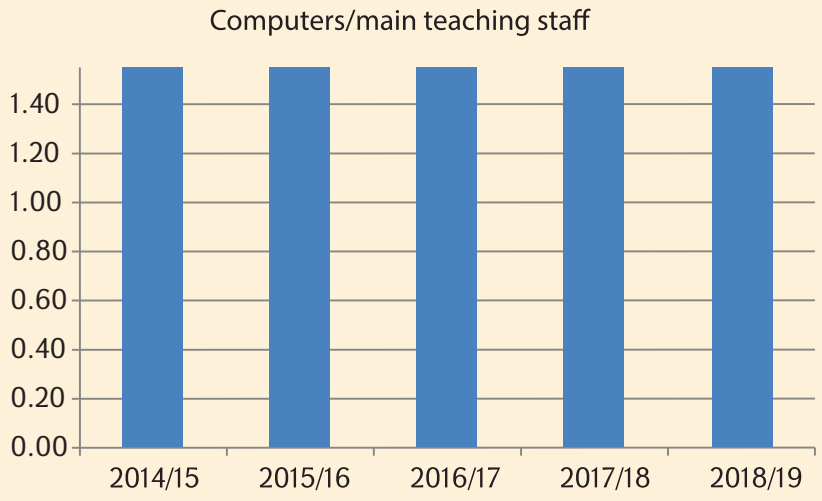
In 2019 the annual capital expenditures dropped by 52 million Armenian drams as compared to 2015. It is worth mentioning that the YSU guesthouse, sports complex and dormitory were fully renovated in 2015-2017.

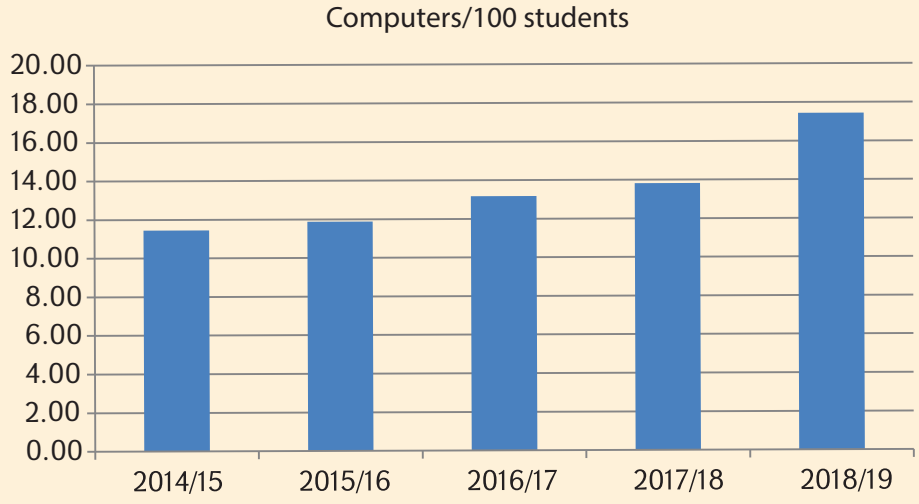


Indicator 4.11. Total Number of Computers

	2014/15	2015/16	2016/17	2017/18	2018/19
Total number of computers	2145	2250	2364	2395	2575
Main teaching staff	1255	1242	1196	1197	1116
Total student body	18743	18944	17954	17338	14774
Computers/main teaching staff	1.71	1.81	1.98	2.00	2.31
Computers/100 students	11.44	11.88	13.17	13.81	17.43

Yerevan State University is very consistent in resupplying computers. Computer equipment is purchased using the university's revenues or the funds obtained through grants. They are used for both academic, scientific and administrative purposes. In recent years the number of desktop computers has increased by 20%. More portable computers have been purchased as well.

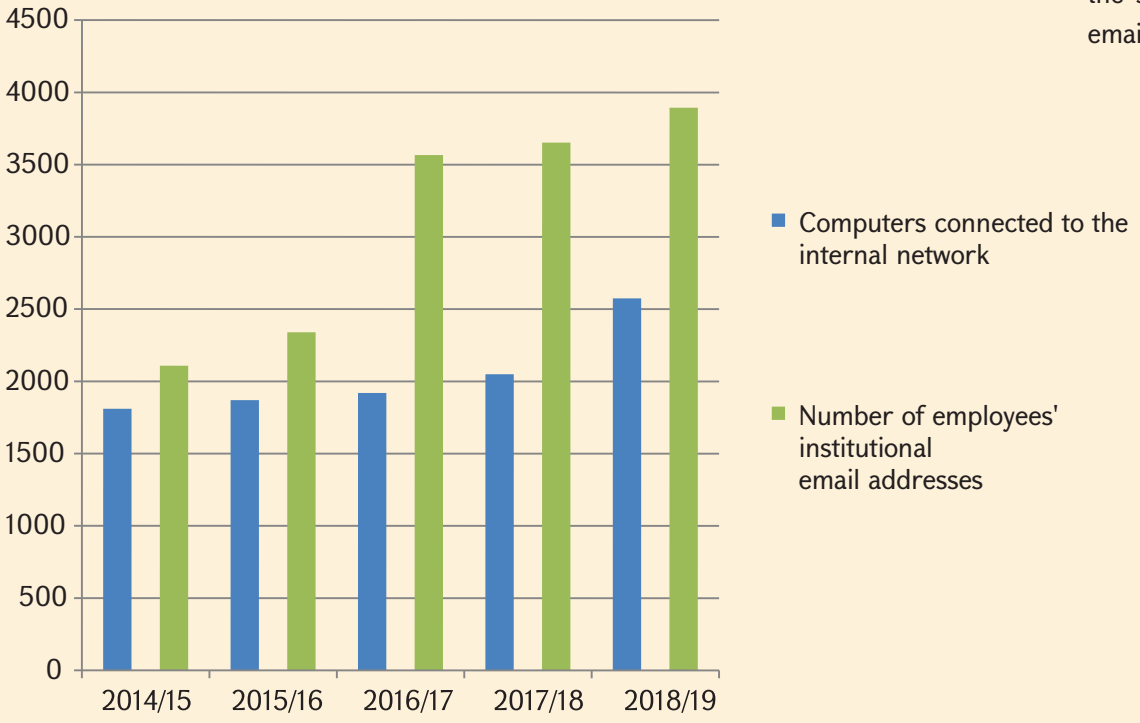




Indicator 4.12. Network Infrastructure

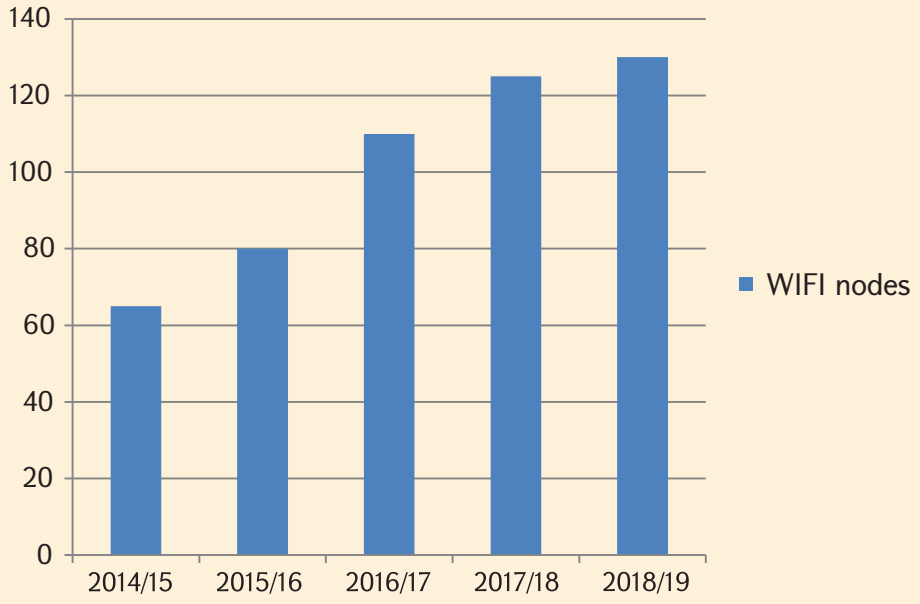
	2014/15	2015/16	2016/17	2017/18	2018/19
Computers connected to the internal network	1810	1870	1920	2050	2575
Number of employees' institutional email addresses	2108	2340	3566	3653	3894

The availability of up-to-date technological equipment is among the top priorities of Yerevan State University. As a result of the consistent expansion of the university-wide network, the number of computers connected to both the internal network and the Internet experienced a 1.5-times increase during the academic years 2014/15-2018/19. In the same time period, the figures for YSU employees' institutional email addresses doubled.



Indicator 4.13. Server Operating System

	2014/15	2015/16	2016/17	2017/18	2018/19
Internet access restrictions and broadband speed	Unlimited 60 (Mbit/s)	Unlimited 60 (Mbit/s)	Unlimited 80 (Mbit/s)	Unlimited 100 (Mbit/s)	Unlimited 200 (Mbit/s)
WIFI nodes	65	80	110	125	130
Number of servers ensuring IT systems operation	14	14	14	15	17
Storage server operating systems (TB)	13	13	14	64	72

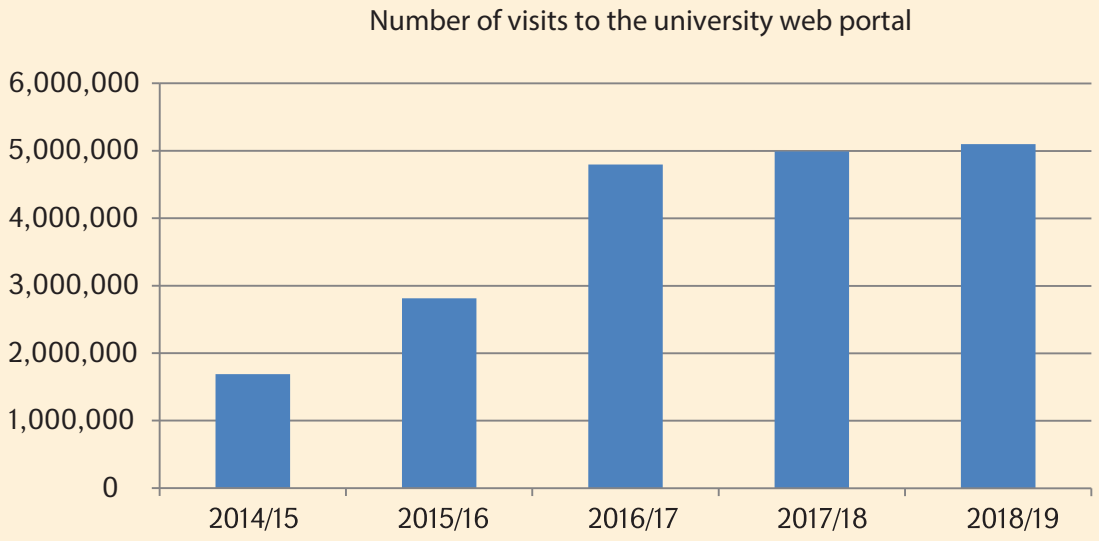


During the academic years 2014/15-2018/19 the internal network expanded in volume and improved in quality. The broadband speed tripled and the number of WIFI nodes doubled. The amount of servers ensuring the IT systems operation grew as well. There are also about 5 times as many storage server operating systems now as in the previous years.

Indicator 4.14. Web Portal

	2014/15	2015/16	2016/17	2017/18	2018/19
Number of websites in the university domain	88	93	95	99	101
Number of visits to the university web portal	1,687,963	2,813,620	4,797,262	4,991,473	5,100,799
Annual amount of news on the university website (Armenian, Russian, English)	1416	1362	1371	1680	2271

During the past five years there have been 13 times more websites operating in the university domain. Compared with 2014/15, the amount of news placed on the university website in multiple languages grew by 60% in 2018/19. As a result, the number of visits to the university portal tripled as well.



AREA 5: Science and Research

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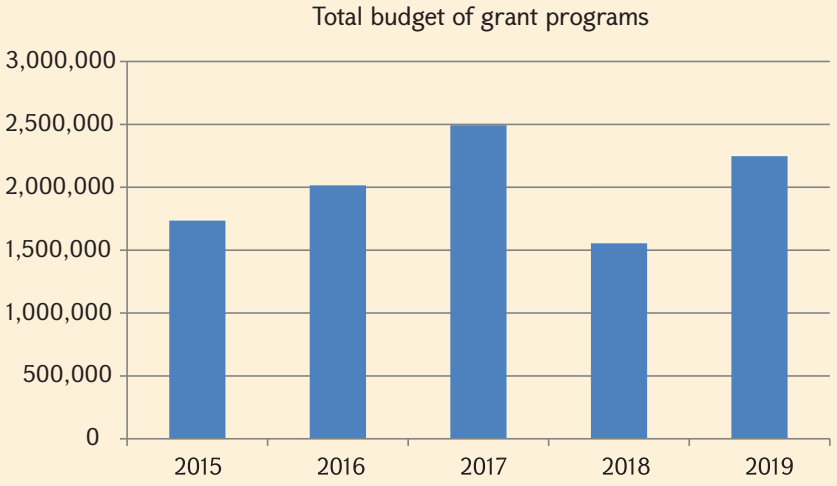
Indicator 5.1. Cash Inflow from Grant Programs According to Sources (AMD in thousands)

	2015	2016	2017	2018	2019
Core laboratories	490,116	525,806	492,581	473,084	585,227
Scientific (thematic) programs	255,733	276,079	321,347	219,597	338,788
International scientific cooperation programs	45,533	41,385	73,772	86,209	90,249
Basic and targeted programs	10,868	10,868	10,868	7,000	8,400
Conference participation and scientific visits programs	9,790	5,894	9,621	5,167	39,986
Scientific research laboratories and logistic base modernization programs	64,281	2,140	0	0	124,000
Programs for preserving objects of national value	10,000	10,000	10,000	9,300	11,160
Programs of monetary rewards for academic degrees, research productivity and supreme certifying committee	177,115	169,164	82,263	128,714	138,375
Programs for the preservation of centers for Armenian Studies	12,135	24,247	24,271	22,471	0
Scholarship programs for students	181,668	187,166	179,965	173,650	164,600
Other grant programs	452,847	750,940	654,785	421,256	738,248
Charity programs	25,228	12,335	633,555	7,880	8,926
Total budget of grant programs	1,735,314	2,016,024	2,493,029	1,554,329	2,247,959

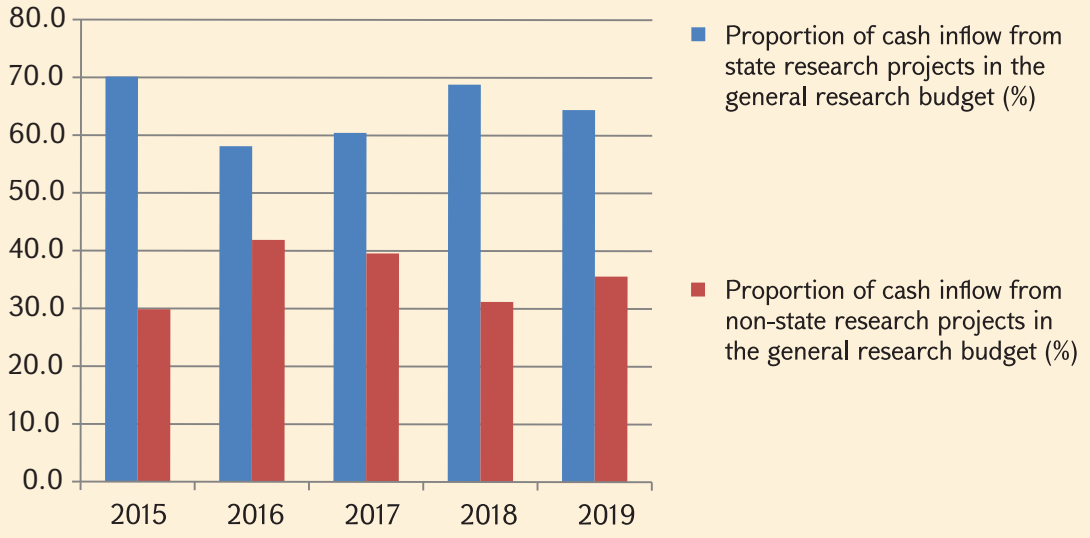


The total budget of grant programs grew by about 30% during 2015-2019. The amount of funds allocated for core laboratories and scientific (thematic) programs rose by 19% and 32%, respectively. Compared with the year 2015, in 2019 the financing provided for the existing international scientific cooperation programs almost doubled.

Indicator 5.2. State/Non-State Projects Ratio (AMD in thousands)

	2015	2016	2017	2018	2019
Cash inflow from state research projects	1,063,436	1,041,335	1,000,453	929,072	1,336,185
Cash inflow from non-state research projects	452,847	750,940	654,785	421,256	738,248
Cash inflow from general research	1,516,283	1,792,275	1,655,238	1,350,328	2,074,433
Proportion of cash inflow from state research projects in the general research budget (%)	70.1	58.1	60.4	68.8	64.4
Proportion of cash inflow from non-state research projects in the general research budget (%)	29.9	41.9	39.6	31.2	35.6

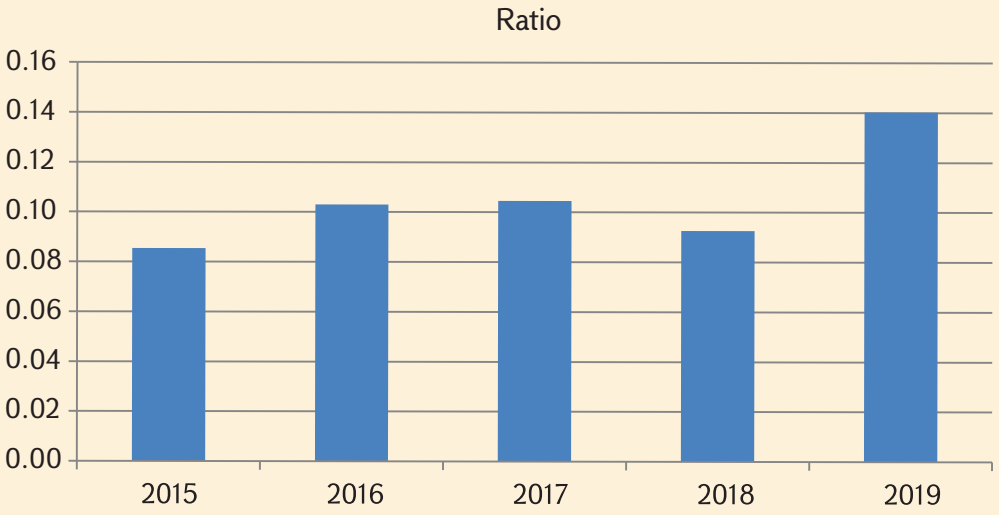
Over the past five years the proportion of cash inflow from state research projects in the general research budget has been in the range of 58% to 70%, whereas the rate of cash inflow from non-state research projects in the general research budget fluctuated between 30% and 42%.



Indicator 5.3. Ratio of State Research Pojects Costs to Total Expenditures (AMD in thousands)

	2015	2016	2017	2018	2019
State research projects costs	1,002,993	1,043,695	1,066,557	845,742	1,331,281
Non-state research projects costs	528,361	529,115	554,892	870,687	620,416
Total research costs	1,531,354	1,572,810	1,621,450	1,716,429	1,951,697
Total expenditures	11749282	10,130,236	10,200,060	9,135,745	9,491,435
Ratio	0.09	0.10	0.10	0.09	0.14

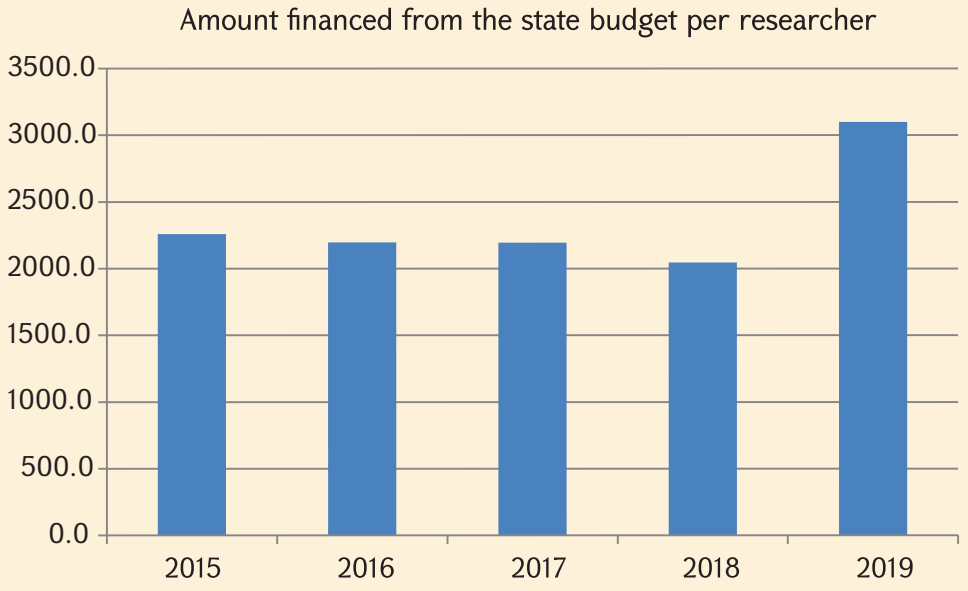
The ratio of state research projects costs to the total expenditures was in the range of 9% to 14% during 2015-2019.



Indicator 5.4. Amount Financed from State Budget per Researcher (AMD in thousands)

	2015	2016	2017	2018	2019
Number of researchers involved in state research projects	471	474	456	454	431
Amount financed to state research projects	1,063,436	1,041,335	1,000,453	929,072	1,336,185
Amount financed from the state budget per researcher	2257.8	2196.9	2194.0	2046.4	3100.2

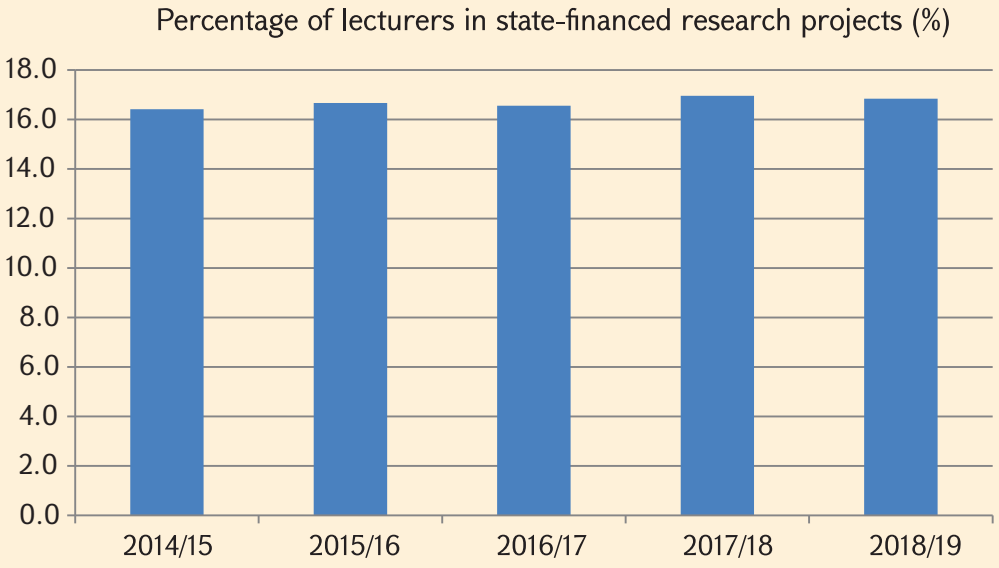
The amount financed from the state budget per researcher surged by 37% over the time period from 2015 to 2019.



Indicator 5.5. Number and Percentage of Lecturers in State-Financed Research Projects

	2014/15	2015/16	2016/17	2017/18	2018/19
Number of lecturers in research projects, including	206	207	198	203	188
Humanities and Social Sciences	48	50	45	54	53
Natural Sciences	158	157	153	149	135
Main Teaching Staff	1255	1242	1196	1197	1116
Percentage of lecturers in state-financed research projects (%)	16.4	16.7	16.6	17.0	16.8

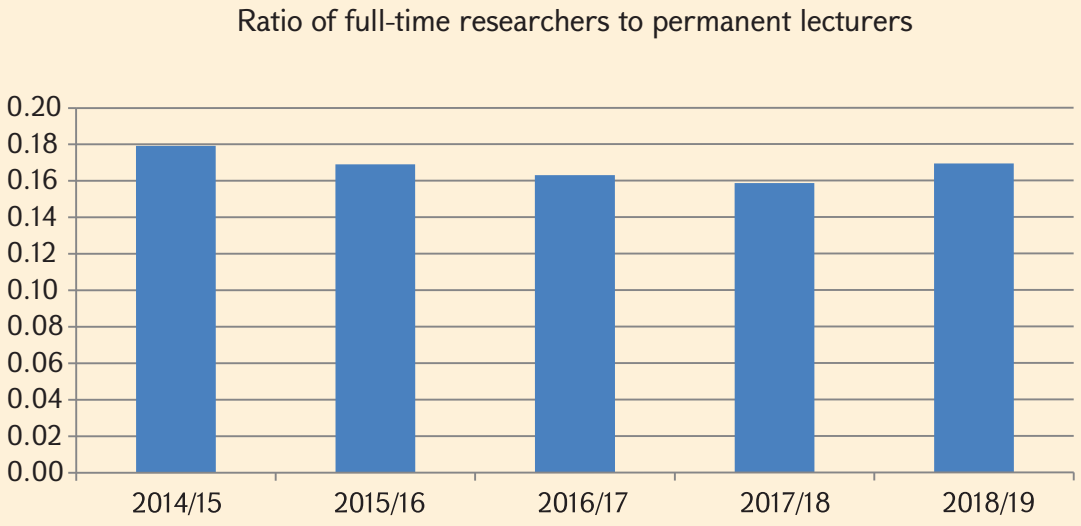
During the academic years 2014/15-2018/19 the percentage of lecturers involved in state-financed research projects in the main teaching staff amounted to 17%, the three-fourths of which were specialists in Natural Sciences.



Indicator 5.6. Number of Full-Time Researchers and Their Ratio to Permanent Lecturers

	2014/15	2015/16	2016/17	2017/18	2018/19
Number of full-time researchers	225	210	195	190	189
Main teaching staff	1255	1242	1196	1197	1116
Ratio of full-time researchers to permanent lecturers	0.18	0.17	0.16	0.16	0.17

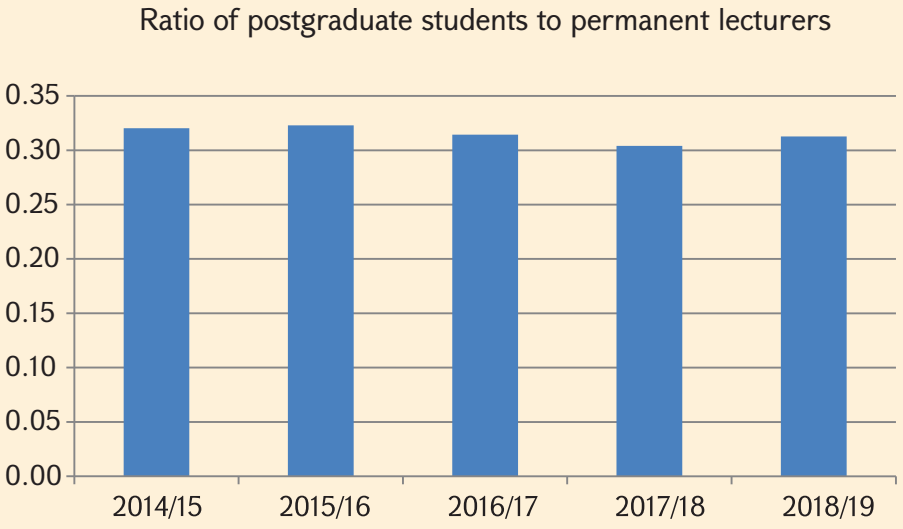
The full-time researchers/permanent lecturers ratio fluctuated between 0.16 and 0.18 during the academic years 2014/15-2018/19.



Indicator 5.7. Ratio of Postgraduate Students to Permanent Lecturers

	2014/15	2015/16	2016/17	2017/18	2018/19
Postgraduate students (RA citizens)	402	401	376	364	349
Main teaching staff	1255	1242	1196	1197	1116
Ratio of postgraduate students to permanent lecturers	0.32	0.32	0.31	0.30	0.31

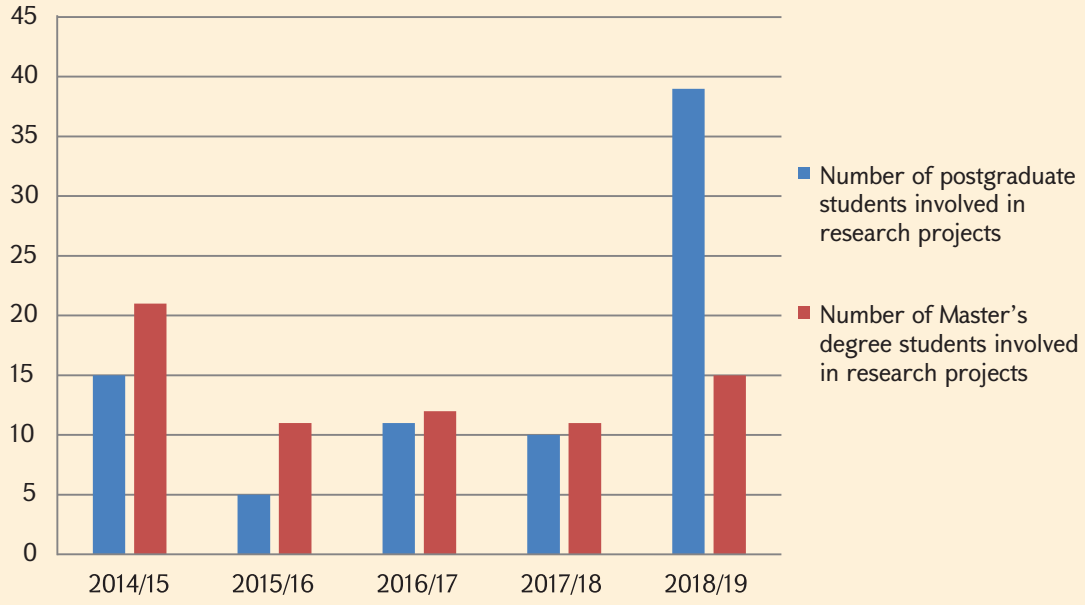
The figures for both postgraduate students and permanent lecturers have shown a downward trend over the past five years. The ratio of postgraduate students to permanent lecturers has remained static making up about 30%.



Indicator 5.8. Full-time Postgraduate and Master's Degree Students' Involvement in Research Projects

	2014/15	2015/16	2016/17	2017/18	2018/19
Number of postgraduate students (full-time)	102	107	95	90	96
Number of postgraduate students involved in research projects	15	5	11	10	39
Proportion of postgraduate students involved (%)	14.7	4.7	11.6	11.1	40.6
Number of Master's degree students	2428	1755	1712	2070	1980
Number of Master's degree students involved in research projects	21	11	12	11	15
Proportion of Master's degree students involved (%)	0.9	0.6	0.7	0.5	0.8

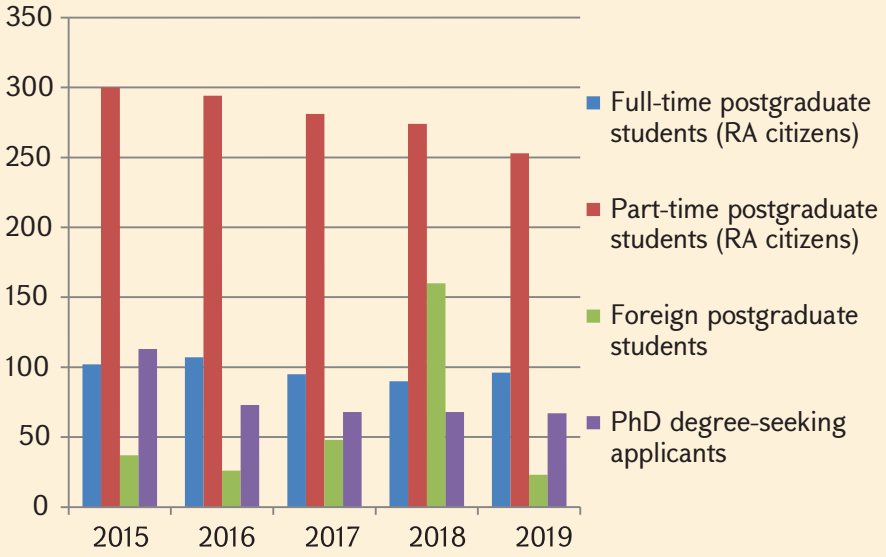
A slight decrease in the number of full-time postgraduate students was observed in 2014/15-2018/19. Yet, compared with 2015, the number of postgraduate students involved in research projects tripled in 2019. Within the same time frame the figures for Master's degree students involved in research projects fluctuated between 11 and 21.



Indicator 5.9. Postgraduate Student Body and PhD Degree-Seeking Applicants

	2015	2016	2017	2018	2019
Full-time postgraduate students (RA citizens)	102	107	95	90	96
Part-time postgraduate students (RA citizens)	300	294	281	274	253
Foreign postgraduate students	37	26	48	160	23
Total	439	427	424	524	372
PhD degree-seeking applicants	113	73	68	68	67

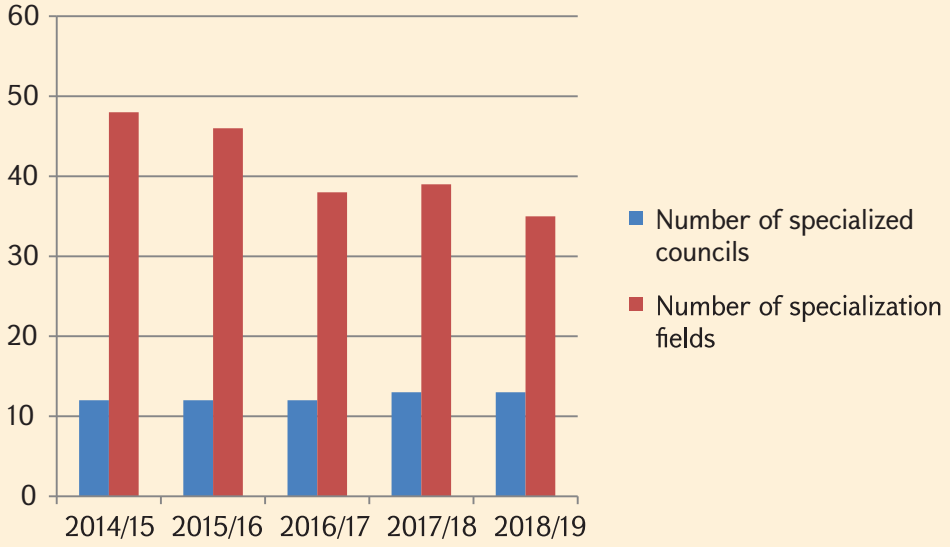
The figures for both full-time and part-time postgraduate students (RA citizens) showed a downward trend during 2015-2019. A gradual decline in the number of PhD degree-seeking applicants has been discerned since 2016 making up about 40% in 2019. It is conditioned by the decreasing rate of the total student body.



Indicator 5.10. YSU Specialized Councils and Fields of Specialization

	2014/15	2015/16	2016/17	2017/18	2018/19
Number of specialized councils	12	12	12	13	13
Number of specialization fields	48	46	38	39	35

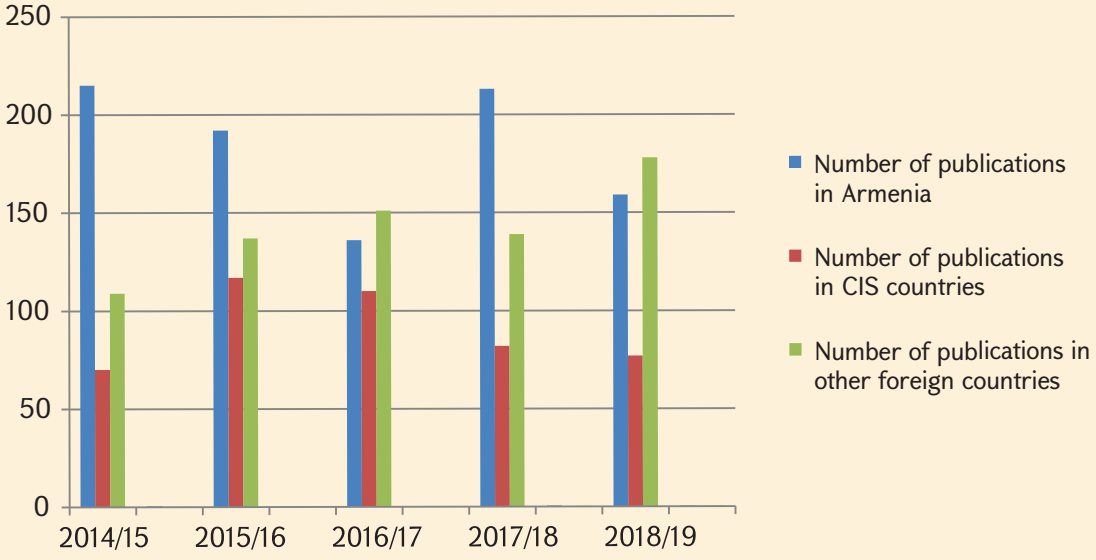
There have been 12-13 specialized councils functioning at Yerevan State University over the past five academic years. Within the same time period the figures for the fields of specialization have declined from 48 to 35 due to the fact that some of them have merged.



Indicator 5.11.1. Scientific Publications: Natural Sciences (Faculties of Chemistry, Biology, Geography and Geology and Institute of Pharmacy)

	2014/15		2015/16		2016/17		2017/18		2018/19	
Number of publications in Armenia	215	55%	192	43%	136	34%	213	49%	159	38%
Number of publications in CIS countries	70	18%	117	26%	110	28%	82	19%	77	19%
Number of publications in other foreign countries	109	28%	137	31%	151	38%	139	32%	178	43%
Total	**394**		**446**		**397**		**434**		**414**	
of which jointly with foreign counterparts	17		72		48		57		109	

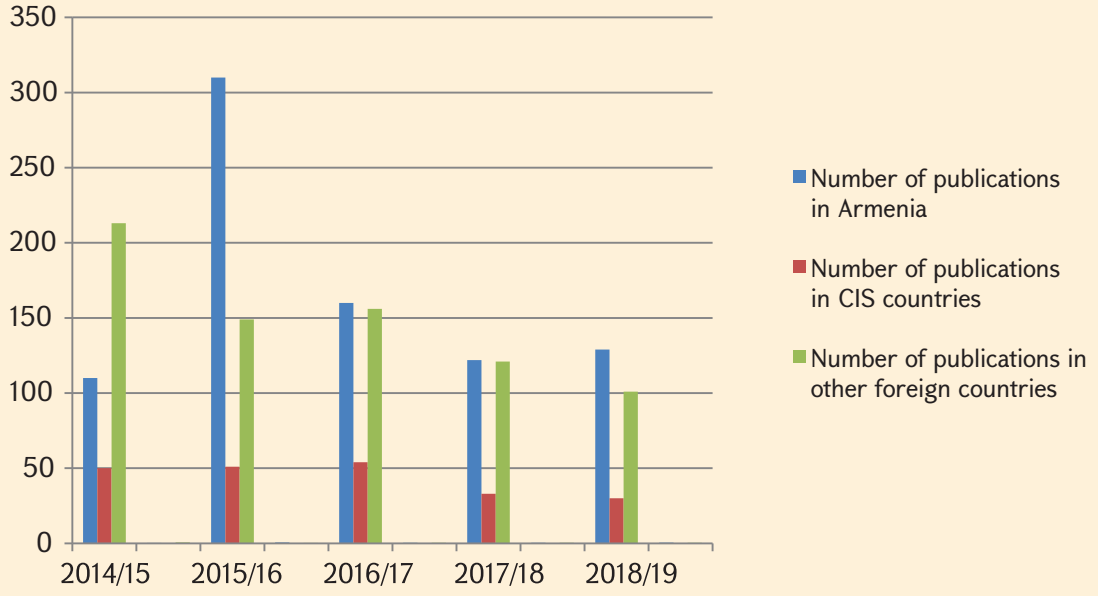
During the academic years 2014/15-2018/19 at the faculties of Natural Sciences a modest increase in the number of scientific publications was observed. Moreover, six times more scholarly papers co-authored with foreign counterparts were published in 2019 as compared with 2015.



Indicator 5.11.2. Scientific Publications: Physics-Mathematics (Faculties of Physics, Radiophysics, Mathematics and Mechanics, Informatics and Applied Mathematics)

	2014/15		2015/16		2016/17		2017/18		2018/19	
Number of publications in Armenia	110	29%	310	61%	160	43%	122	44%	129	50%
Number of publications in CIS countries	50	13%	51	10%	54	15%	33	12%	30	12%
Number of publications in other foreign countries	213	57%	149	29%	156	42%	121	44%	101	39%
Total	**373**		**510**		**370**		**276**		**260**	
of which jointly with foreign counterparts	59		81		58		64		68	

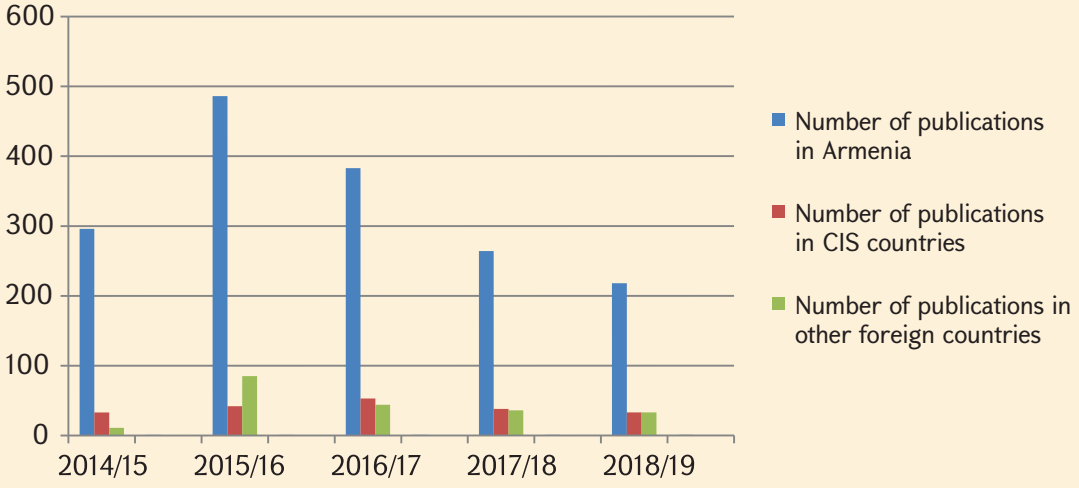
The rate of publications at the faculties of Physics-Mathematics both in Armenia and abroad showed a downward trend during the academic years 2014/15-2018/19 reaching around 30%. Throughout the same time span the number of publications co-authored with foreign colleagues ranged between 58-81.



Indicator 5.11.3. Scientific Publications: Philology (Faculties of Armenian Philology, Russian Philology, European Languages and Communication, Oriental Studies)

	2014/15		2015/16		2016/17		2017/18		2018/19	
Number of publications in Armenia	296	87%	486	79%	383	80%	264	78%	218	77%
Number of publications in CIS countries	33	10%	42	7%	53	11%	38	11%	33	12%
Number of publications in other foreign countries	11	3%	85	14%	44	9%	36	11%	33	12%
Total	**340**		**613**		**480**		**338**		**284**	
of which jointly with foreign counterparts	0		0		0		1		5	

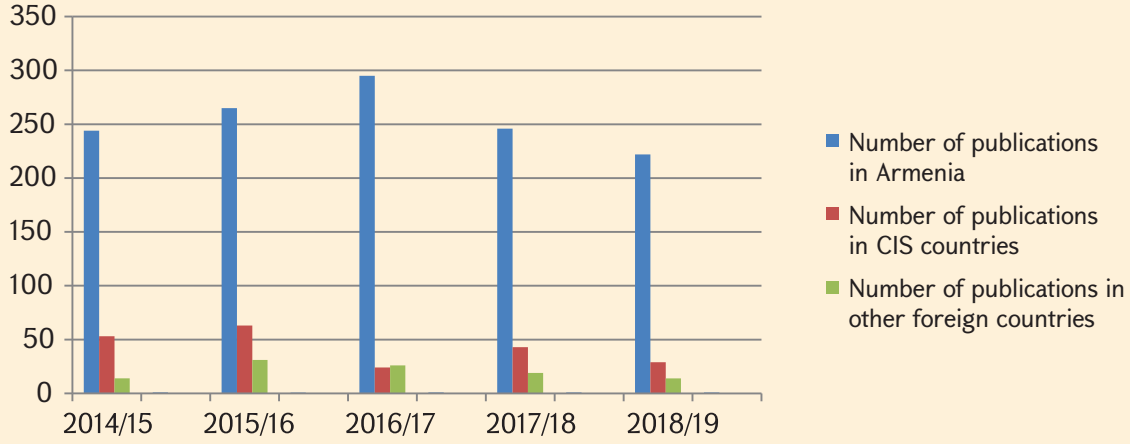
The total number of scientific publications at the mentioned philological faculties was in the range of 284-613. An increase in the rate of publications co-authored with foreign partners was noticed in the same period of time.



Indicator 5.11.4. Scientific Publications: Social Sciences (Faculties of Law, Economics and Management, Sociology, International Relations)

	2014/15		2015/16		2016/17		2017/18		2018/19	
Number of publications in Armenia	244	78%	265	74%	295	86%	246	80%	222	84%
Number of publications in CIS countries	53	17%	63	18%	24	7%	43	14%	29	11%
Number of publications in other foreign countries	14	5%	31	9%	26	8%	19	6%	14	5%
Total	**311**		**359**		**345**		**308**		**265**	
of which jointly with foreign counterparts	3		5		4		5		8	

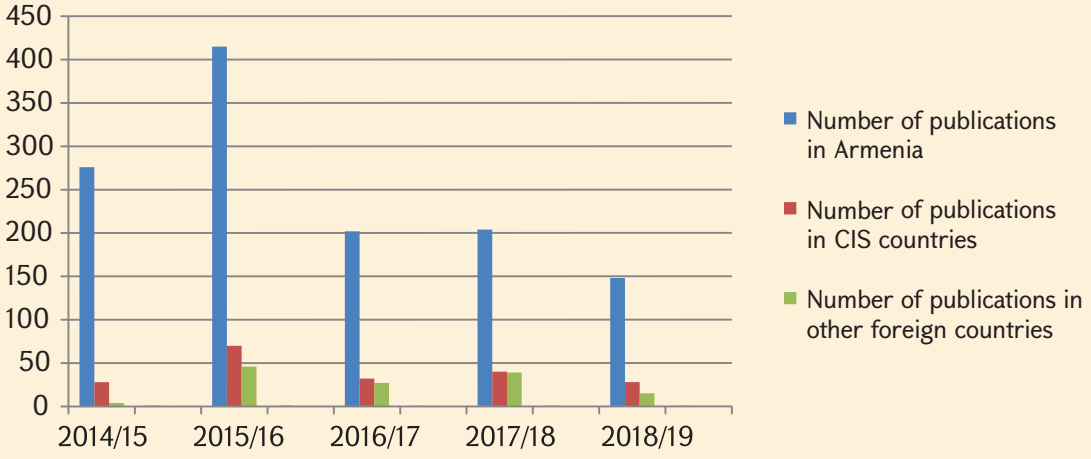
During the academic years 2014/15-2018/19 the number of publications at the faculties of Social Sciences amounted to nearly 300. The ones published in Armenia prevailed, whereas the publications co-authored with foreign colleagues and those published in foreign countries still represent a small percentage.



Indicator 5.11.5. Scientific Publications: Humanities (Faculties of History, Theology, Journalism, Philosophy and Psychology)

	2014/15		2015/16		2016/17		2017/18		2018/19	
Number of publications in Armenia	276	90%	415	78%	202	77%	204	72%	148	77%
Number of publications in CIS countries	28	9%	70	13%	32	12%	40	14%	28	15%
Number of publications in other foreign countries	4	1%	46	9%	27	10%	39	14%	15	8%
Total	**308**		**531**		**261**		**283**		**191**	
of which jointly with foreign counterparts	4		9		7		8		10	

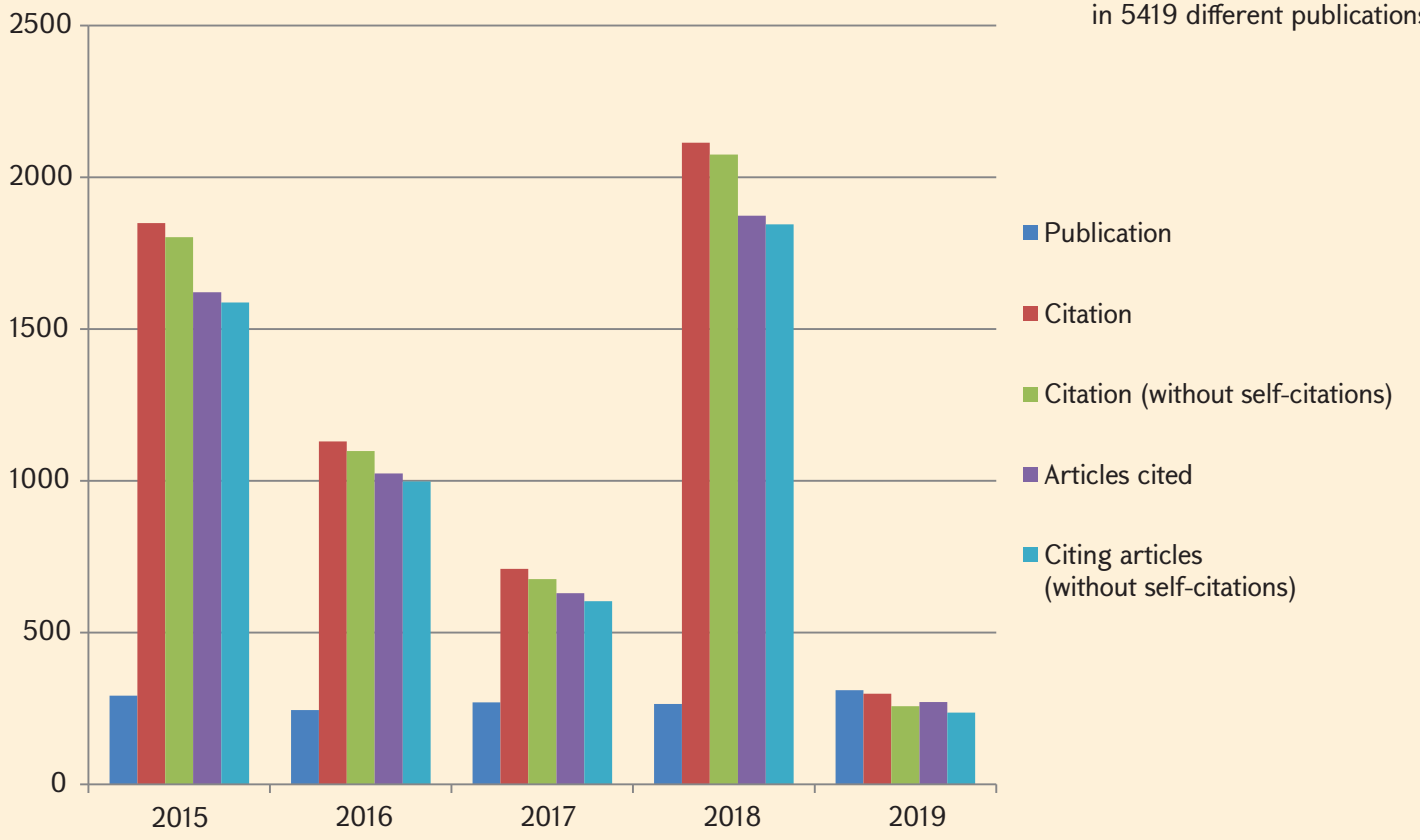
The percentage of scientific publications in the Humanities has dropped by around 38% over the past five years. The number of publications co-authored with foreign colleagues as well as those published overseas grew slightly.



Indicator 5.12. Brief Overview of YSU Publications Indexed in Web of Science

	2015	2016	2017	2018	2019	Total
Publication	292	245	270	265	310	1382
Citation	1,849	1,130	710	2,114	299	6102
Citation (without self-citations)	1,803	1,098	676	2,075	257	5909
Articles cited	1621	1024	630	1873	271	5419
Citing articles (without self-citations)	1588	998	603	1845	236	5270

Over the last 5 years, 1382 articles penned by YSU scholars have been indexed in the Web of Science which have been cited 6102 times in 5419 different publications.



AREA 6. Foreign Relations and International Cooperation

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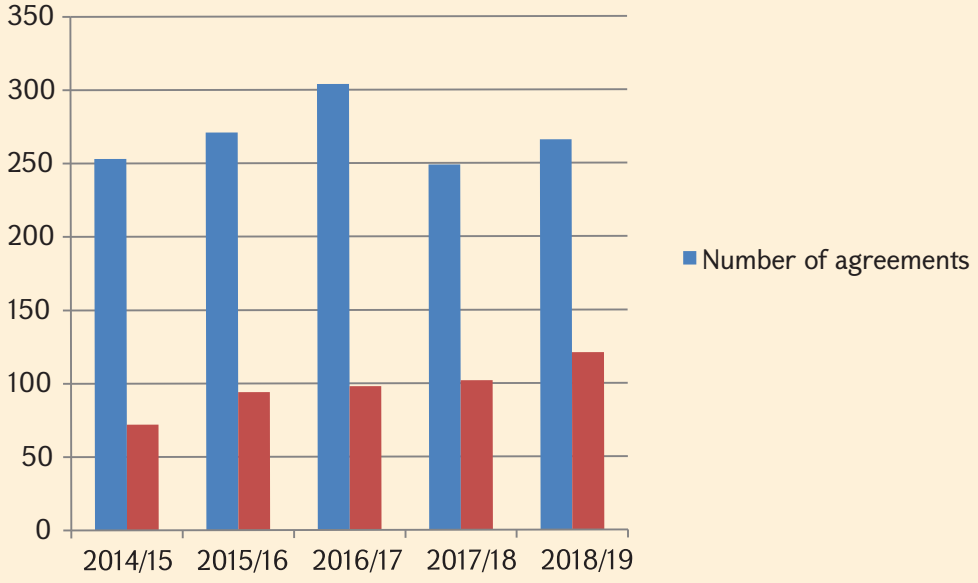
Indicator 6.1. Business Trips to Partner Institutions

	2014/15	2015/16	2016/17	2017/18	2018/19
Number of agreements	253	271	304	249	266
Number of business trips to partner institutions	72	94	98	102	121

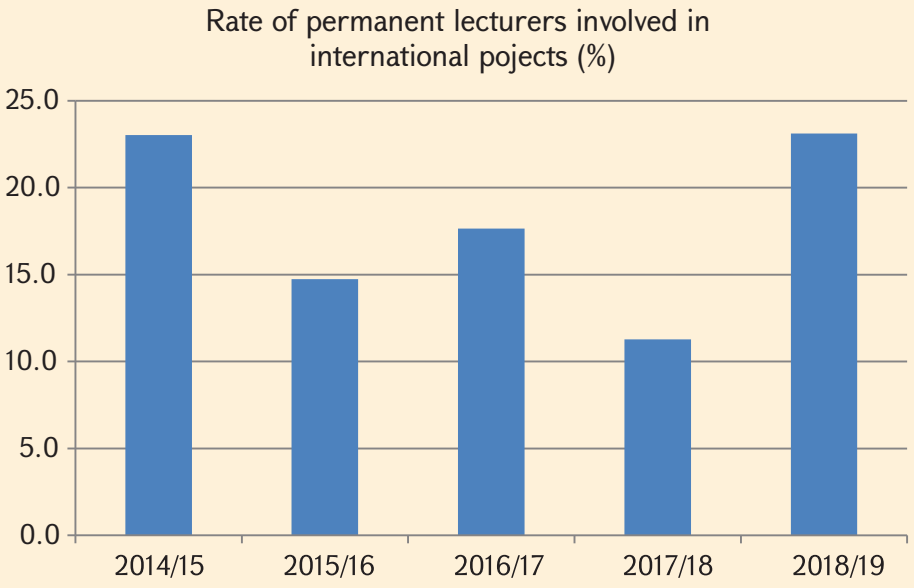
In the academic years 2014/15-2018/19 the number of agreements concluded with foreign partner organizations fluctuated between 250 and 300. In the same time period the figures for business trips to partner institutions grew by 68%.



Indicator 6.2. Rate of Permanent Lecturers Involved in International Projects

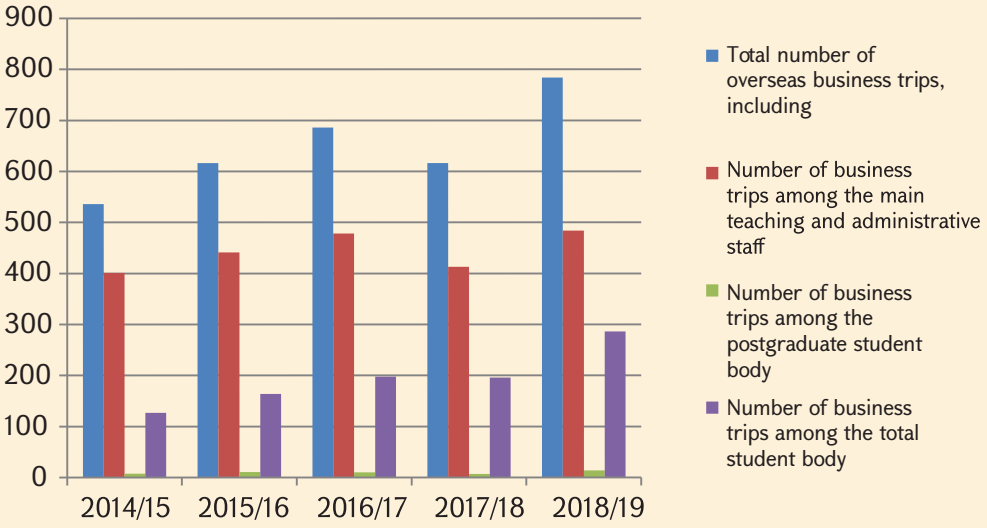
	2014/15	2015/16	2016/17	2017/18	2018/19
Number of permanent lecturers involved in international projects	289	183	211	135	258
Main teaching staff	1255	1242	1196	1197	1116
Rate of permanent lecturers involved in international pojects (%)	23.0	14.7	17.6	11.3	23.1

During the academic years 2014/15-2018/19 the number of permanent lecturers involved in international projects dropped by 11%. Over the same time period the figures for the main teaching staff showed a downward trend as well. As a result of the work carried out in 2018/19 the given rate experienced an increase reaching 23.1%.



Indicator 6.3. Number and Rate of Overseas Business Trips

	2014/15	2015/16	2016/17	2017/18	2018/19
Total number of overseas business trips, including	536	616	686	616	784
Main teaching and administrative staff	1605	1497	1443	1418	1415
Number of business trips among the main teaching and administrative staff	*401*	*441*	*478*	*413*	*484*
Rate (%)	25.0	29.5	33.1	29.1	34.2
Postgraduate student body	402	401	376	364	349
Number of business trips among the postgraduate student body	*8*	*11*	*10*	*7*	*14*
Rate (%)	2.0	2.7	2.7	1.9	4.0
Total student body	18743	18944	17954	17338	14774
Number of business trips among the total student body	*127*	*164*	*198*	*196*	*286*
Rate (%)	0.7	0.9	1.1	1.1	1.9

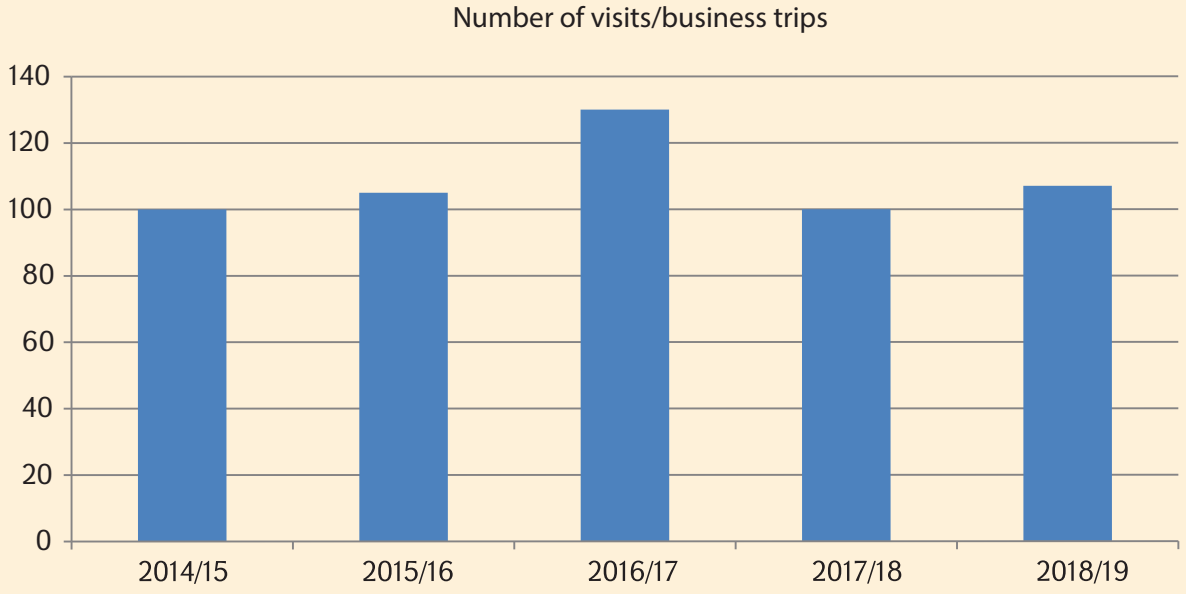


Over the past five academic years the total number of overseas business trips has grown by about 46%. Within the same time frame the rate of business trips among the main teaching and administrative staff has shown an upward trend rising from 25% to 34%. During the 2014/15-2018/19 academic years the figures for the business trips among both the postgraduate student body and the total student body grew marginally making up 4% and 2%, respectively.

Indicators 6.4. Overseas Visits/Business Trips to Yerevan State University

	2014/15	2015/16	2016/17	2017/18	2018/19
Number of visits/business trips	100	105	130	100	107

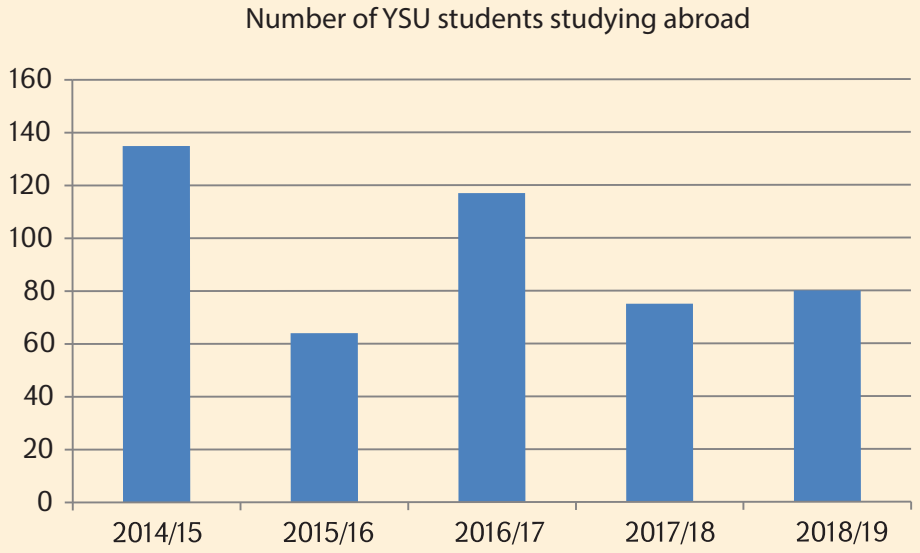
During the academic years 2014/15-2018/19 the number of visits and business trips to Yerevan State University for teaching and research purposes was in the range of 100.



Indicator 6.5. Number and Rate of YSU Students Studying Abroad

	2014/15	2015/16	2016/17	2017/18	2018/19
Number of YSU students studying abroad	135	64	117	75	80
Total student body	18743	18944	17954	17338	14774
Rate (%)	0.72	0.34	0.65	0.43	0.54

During the academic years 2014/15-2018/19 the percentage of YSU students studying abroad in the total student body ranged from 0,34% to 0,72%.



Indicator 6.6. Affiliation of Yerevan State University to International Organizations and Consortia

	2014/15	2015/16	2016/17	2017/18	2018/19
Number of international organizations and consortia Yerevan State University is affiliated to	8	8	9	9	8

Over the past five academic years YSU has been affiliated to 8-9 international organizations and consortia: International Association of Universities (IAU), European University Association (EUA), Eurasian Association of Universities (EAU), Black Sea Universities Network (BSUN), International Association of University Presidents (IAUP), Agence Universitaire de la Francophonie (Francophone University Association) (AUF), University League of the Collective Security Treaty Organization (CSTO University League), CIS Network University, Regional Network for Education and Training in Nuclear Technology (STAR-NET).

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