

Reference Metadata in ESMS 2.0 structure

Statistical survey on graduated students from undergraduate studies (first cycle) at faculties and higher vocational schools	
E_VOI.50_A_EN_2024_1	
Reference Metadata in ESMS 2.0 structure	
<b>1</b>	<b>Contact</b>
<b>1.1</b>	<b>Contact organisation</b>
State Statistical Office	
<b>1.2</b>	<b>Contact organisation unit</b>
Department for education	
<b>1.3</b>	<b>Contact name</b>
Nedreta Nuhii	
<b>1.4</b>	<b>Contact person function</b>
Associate	
<b>1.5</b>	<b>Contact mail address</b>
Dame Gruev 4, 1000 Skopje, Republic of Macedonia	
<b>1.6</b>	<b>Contact email address</b>
nedreta.nuhii@stat.gov.mk	
<b>1.7</b>	<b>Contact phone number</b>
00389 2 3249 409	
<b>1.8</b>	<b>Contact fax number</b>
00389 2 3111 336	
<b>2</b>	<b>Metadata update</b>
<b>2.1</b>	<b>Metadata last certified</b>
01/07/2025	
<b>2.2</b>	<b>Metadata last posted</b>
01/07/2025	
<b>2.3</b>	<b>Metadata last update</b>
01/07/2025	
<b>3</b>	<b>Statistical presentation</b>
<b>3.1</b>	<b>Data description</b>
Graduated students by mode of study and gender, by belonging to an ethnic community , students who graduated within the established deadline and after the deadline during the year, graduated full-time and part-time students by age and gender, graduated students by place (municipality) of residence, students- citizens of the Republic of Macedonia who graduated within the established deadline and after the deadline during the year, graduated students citizens of the Republic of Macedonia and foreign citizens.	
<b>3.2</b>	<b>Classification system</b>
National Classification of Activities - NKD Rev.2; Nomenclature of Territorial Units for Statistics - NTES, 2013 The education system in the Republic of Macedonia in terms of ISCED2011 - International Standard Classification of Education MSKOB (2013) Manual fields (areas) of education and training in ISCED 2013.	
<b>3.3</b>	<b>Sector coverage</b>

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Sector P / M-Education, class 85.42, Higher education, according to NKD Rev. 2.	
<b>3.4</b>	<b>Statistical concepts and definitions</b>
Faculty is a higher education institution conducting higher education, scientific research and applied work in one or more related scientific and specialized fields. Higher vocational school is an institution of higher education which conduct high educational activity for professional studies and highly professional work in one or more specialized areas. Students are persons, who after the previous secondary education and fulfilled conditions for admission to higher education institutions continue their further education at higher schools and faculties in the Republic of Macedonia as full-time or part-time students.	
<b>3.5</b>	<b>Statistical unit</b>
Higher education institutions (faculties and higher vocational schools) belonging to sector P / M-Class Education, 85.42- Higher education.	
<b>3.6</b>	<b>Statistical population</b>
Graduated students at faculties and higher vocational schools that are belonging to the sector P / M-Education, class 85.42, Higher education.	
<b>3.7</b>	<b>Reference area</b>
Municipalities	
<b>3.8</b>	<b>Time coverage</b>
Since 1945 year.	
<b>3.9</b>	<b>Base period</b>
<b>4</b>	<b>Unit of measure</b>
Number.	
<b>5</b>	<b>Reference period</b>
Year.	
<b>6</b>	<b>Institutional mandate</b>
<b>6.1</b>	<b>Legal acts and other agreements</b>
NATIONAL LEGISLATION Law on State Statistics ('Official Gazette of the Republic of Macedonia' No. 54/1997, 21/2007,51/2011, 104/2013, 42/2014, 192/2015, 27/16, 83/18, 220/18 and 'Official Gazette of the Republic of North Macedonia' No. 31/20) ( <a href="https://www.stat.gov.mk/ZakonZaStatistika_en.aspx">https://www.stat.gov.mk/ZakonZaStatistika_en.aspx</a> ) Programme of Statistical Surveys 2023-2027 ("Official Gazette of the Republic of NorthMacedonia" No. 29/23) ( <a href="https://www.stat.gov.mk/ZaNas_en.aspx?id=8">https://www.stat.gov.mk/ZaNas_en.aspx?id=8</a> )	
<b>6.2</b>	<b>Data sharing</b>
"Time Series of 1998: via eDAMIS to Eurostat with ""UNESCO / OECD / Eurostat data collection on education and training statistics""."	
<b>7</b>	<b>Confidentiality</b>
<b>7.1</b>	<b>Confidentiality - policy</b>
Individual data are protected by the Law on State Statistics. Data collected with statistical surveys from the reporting units or indirectly from administrative or other sources are confidential data and are used only for statistical purposes. Results from the statistical processing may also generate information considered as confidential, for example: anonymised individual data, tables with low level of aggregation, as well as unreleased data. The Policy on Statistical Confidentiality contains the basic principles used in the SSO.	
<b>7.2</b>	<b>Confidentiality - data treatment</b>
All individual or personal data, in each phase of statistical processing, are treated as confidential data and may be used only for statistical purposes. When releasing data from this survey at an aggregated level, there is no need for additional data treatment for the purpose of ensuring confidentiality.	
<b>8</b>	<b>Release policy</b>
<b>8.1</b>	<b>Release calendar</b>
Data are released in accordance with the Release Calendar, which is published on the web site of the State Statistical Office. The Release Calendar is prepared annually before the beginning of each year and is updated quarterly.	
<b>8.2</b>	<b>Release calendar access</b>
<a href="https://www.stat.gov.mk/Kalendar_en.aspx">https://www.stat.gov.mk/Kalendar_en.aspx</a>	
<b>8.3</b>	<b>User access</b>

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In accordance with the dissemination policy, all users have equal access to statistical data at the same time. Data are released on the web site at the same time for all users, which are informed with the Release Calendar, and no user has privileged access.	
<b>9</b>	<b>Frequency of dissemination</b>
Yearly.	
<b>10</b>	<b>Accessibility and clarity</b>
<b>10.1</b>	<b>News release</b>
"News release ""Graduated students at the higher schools and faculties"". Number of page views on the website - 759. <a href="http://www.stat.gov.mk/pdf/2016/2.1.16.14.pdf">http://www.stat.gov.mk/pdf/2016/2.1.16.14.pdf</a>	
<b>10.2</b>	<b>Publications</b>
<a href="https://makstat.stat.gov.mk/PXWeb/pxweb/mk/MakStat/MakStat_ObrazovanieNauka_VisokoObrazovanie_DipolmiraniStudenti_DipPrvCiklus/">https://makstat.stat.gov.mk/PXWeb/pxweb/mk/MakStat/MakStat_ObrazovanieNauka_VisokoObrazovanie_DipolmiraniStudenti_DipPrvCiklus/</a>	
<b>10.3</b>	<b>On-line database</b>
MakStat database available on the State Statistical Office website: Graduated students on undergraduate studies by place of residence, by gender, by region, by year Number of views of the tables in the MakStat database - 759 <a href="http://makstat.stat.gov.mk/PXWeb/pxweb/mk/MakStat/MakStat_ObrazovanieNauka_VisokoObrazovanie/125_VsObr_reg_00_10_ZapSt_mk.px/?rxid=46ee0f64-2992-4b45-a2d9-cb4e5f7ec5ef">http://makstat.stat.gov.mk/PXWeb/pxweb/mk/MakStat/MakStat_ObrazovanieNauka_VisokoObrazovanie/125_VsObr_reg_00_10_ZapSt_mk.px/?rxid=46ee0f64-2992-4b45-a2d9-cb4e5f7ec5ef</a>	
<b>10.4</b>	<b>Micro-data access</b>
According to the Law on State Statistics (Article 41) and the Policy on Access to Anonymised Microdata for scientific purposes, data collected for the purpose of official statistics may be used for scientific purposes if there is no risk of direct or indirect identification, i.e. disclosure of data individuality. Access to microdata is possible only in the safe room at the SSO, based on a submitted and approved request and a signed agreement. <a href="http://www.stat.gov.mk/ZaNas_en.aspx?id=22">http://www.stat.gov.mk/ZaNas_en.aspx?id=22</a>	
<b>10.5</b>	<b>Other</b>
Survey data are sent to Eurostat and they are released on the web site of this institution.	
<b>10.6</b>	<b>Documentation on methodology</b>
"The methodological explanations are released on the State Statistical Office website: <a href="http://www.stat.gov.mk/MetodoloskiObjasSooop.aspx?id=21&amp;rbrObl=5">http://www.stat.gov.mk/MetodoloskiObjasSooop.aspx?id=21&amp;rbrObl=5</a> Methodological explanations that are part of the publication ""Graduated students, 2014 (first, second and third cycle)"". <a href="http://www.stat.gov.mk/Publikacii/2.4.15.23.pdf">http://www.stat.gov.mk/Publikacii/2.4.15.23.pdf</a> "	
<b>10.7</b>	<b>Quality documentation</b>
A National Quality Report is sent to Eurostat. <a href="http://ec.europa.eu/eurostat/cache/metadata/en/educ_uoe_enr_esqrs_mk.htm">http://ec.europa.eu/eurostat/cache/metadata/en/educ_uoe_enr_esqrs_mk.htm</a>	
<b>11</b>	<b>Quality management</b>
<b>11.1</b>	<b>Quality assurance</b>
The quality of the processes and products in the State Statistical Office is ensured by adhering to the European Statistics Code of Practice ( <a href="https://www.stat.gov.mk/ZaNas_en.aspx?id=2">https://www.stat.gov.mk/ZaNas_en.aspx?id=2</a> ) and the Quality Assurance Framework within the European Statistical System (ESS Quality Assurance Framework â€” <a href="https://ec.europa.eu/eurostat/documents/64157/4392716/ESS-QAF-V2.0-final.pdf">https://ec.europa.eu/eurostat/documents/64157/4392716/ESS-QAF-V2.0-final.pdf</a> ). The quality criteria are also determined in the Law on State Statistics in Article 4b and Article 4c( <a href="https://www.stat.gov.mk/ZakonZaStatistika_en.aspx">https://www.stat.gov.mk/ZakonZaStatistika_en.aspx</a> ).	
<b>11.2</b>	<b>Quality assessment</b>
The State Statistical Office carries out statistical activities in accordance with the Statistical Business Process Model, which is based on the international model - Generic Statistical Business Process Model (GSBPM). The application of this model and international standards in statistical production ensures a high level of accuracy and comparability of data.	
<b>12</b>	<b>Relevance</b>
<b>12.1</b>	<b>User needs</b>
The data are used by Government, ministries, agencies and local government for their use in determining and conducting development policy, by students, researchers, as well as international institutions, UNESCO, OECD, Eurostat and others. Indicators: students who graduated on time and after the deadline, the percentage of foreign students that graduated in the national education system in the higher education and etc.	
<b>12.2</b>	<b>User satisfaction</b>
The State Statistical Office conducts the User Satisfaction Survey at the domain level. This Survey is conducted every three years and the last one was in 2015. <a href="http://www.stat.gov.mk/Dokumenti/izvestai/IzvestajAnketaZadovNaKorisnici2015_en.pdf">http://www.stat.gov.mk/Dokumenti/izvestai/IzvestajAnketaZadovNaKorisnici2015_en.pdf</a>	
<b>12.3</b>	<b>Completeness</b>
In terms of the indicators provided by Regulation. 88/2011 of the European Commission, SSO provides about 80% of them.	

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<b>13</b>	<b>Accuracy and reliability</b>
<b>13.1</b>	<b>Overall accuracy</b>
Data accuracy is ensured by working on decreasing sampling and/or non-sampling errors, as well as with additional data comparisons and analysis before dissemination.	
<b>13.2</b>	<b>Sampling error</b>
Not applicable (survey is with total coverage).	
<b>13.3</b>	<b>Non-sampling error</b>
Coverage errors: Providing 100% coverage. Data providers are reminded timely to fulfil its obligation. During conducting the survey, the questionnaires are collected from the field daily, in order to control the scope and timely detection of errors. The collected data are controlled by the obliged person for the survey, if an error is detected in the questionnaires by contacting with the reporting units they are adjusted. Errors in data processing: Data entry is made through pre-defined application for entry in manual mode. During the data entry, there are applied automatically controls and controls over input, as well as additional control after completing the entry.	
<b>14</b>	<b>Timeliness and punctuality</b>
<b>14.1</b>	<b>Timeliness</b>
T+180	
<b>14.2</b>	<b>Punctuality</b>
Data are disseminated within the established deadlines in accordance with the Release Calendar.	
<b>15</b>	<b>Coherence and comparability</b>
<b>15.1</b>	<b>Comparability - geographical</b>
There is geographical comparability of the released data at national and regional level. With respect to geographical comparability with other EU countries, it is also ensured because data are collected in line with EU regulations.	
<b>15.2</b>	<b>Comparability - over time</b>
Comparability of the data is provided since 1945 without interruption over time. The number of reference periods in the time series is 71.	
<b>15.3</b>	<b>Coherence - cross domain</b>
Comparisons were made with the data at micro level and the administrative data.	
<b>15.4</b>	<b>Coherence - internal</b>
Internal coherence of data is ensured.	
<b>16</b>	<b>Cost and burden</b>
<b>17</b>	<b>Data revision</b>
<b>17.1</b>	<b>Data revision - policy</b>
In accordance with the Statistical Data Revision Policy. <a href="http://www.stat.gov.mk/ZaNas.aspx?id=25">http://www.stat.gov.mk/ZaNas.aspx?id=25</a>	
<b>17.2</b>	<b>Data revision - practice</b>
<b>18</b>	<b>Statistical processing</b>
<b>18.1</b>	<b>Source data</b>
The data are obtained using the survey with full coverage. Data sources are questionnaires received from reporting units - faculties and higher vocational schools. Each reporting unit (faculty, higher vocational school) delivers individual questionnaires for each student who graduated in the calendar year.	
<b>18.2</b>	<b>Frequency of data collection</b>
Yearly.	
<b>18.3</b>	<b>Data collection</b>
The data are collected via method of self fulfilment of the statistical questionnaire for graduated students (Form SHV.50) from the students, confirmed and certified from the faculty in which they graduated i.e. reporting units. The self fulfilment (about 40%) is done electronically, and in the some reporting units (faculties) where there is no possibility of an electronic entry the self fulfilment of the questionnaire is done manually and delivered in paper form to the SSO. Completed questionnaires are delivered each quarter no later than (T + 15).	

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<b>18.4</b>	<b>Data validation</b>
Data validation is done in accordance with the defined criteria for control. Initial check of the data is done by the responsible person for the survey in the subject matter department while receiving the completed questionnaires. Verification of the data is done using logical and mathematical control.	
<b>18.5</b>	<b>Data compilation</b>
The data are obtained on paper, controlling the scope of the reports received. The reports are systematized by universities, faculties and departments within the faculty. By the person responsible for the survey if it is necessary the faculties and higher vocational schools are contacted about the scope and completeness of questionnaires. Controlled questionnaires by the person responsible for the survey, are entered in the application with inserted mathematical and logical controls, as well as additional controls after the data entry. If errors are detected in the questionnaires the reporting units are contacted additionally and the errors are adjusted. The data are controlled, compared and analysed, also and before their publication, at an aggregate level.	
<b>18.6</b>	<b>Adjustment</b>
Data adjustment is not performed.	
<b>19</b>	<b>Comment</b>
<b>A.1</b>	<b>Annexes</b>

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