

PROJECT “DEVELOPMENT AND IMPLEMENTATION OF A SYSTEM FOR MONITORING AND EVALUATING THE PROGRESS OF SCIENCE AND STUDIES”

The aim of the project – to create a system for monitoring the progress of the HEIs activities, which would ensure timely monitoring of the activities of HEIs and their changes: to collect, analyze and systematically prepare information on the activities of Lithuanian HEIs and their changes; to identify trends in the activities of HEIs:

- constructing the list of indicators and descriptions of indicators in order to monitor the progress of HEIs activities; data collection and analysis;
- aggregation and visualization of the methodical means (aggregation of indicators, construction of indices, visualization of results (university and college indices));
- preparation of a report (discussion of results, preparation of individual HEIs profiles, recommendations);
- developing a tool for visual profiles of all HEIs.

A METHODOLOGICAL MEANS FOR MONITORING THE PROGRESS OF ACTIVITIES OF HIGHER EDUCATION INSTITUTIONS (HEIS)

The **object** of monitoring the progress of HEIs consists of:

1. general characteristics of HEIs;
2. characteristics of students and studies;
3. characteristics and performance of the research staff of HEIs;
4. characteristics of teaching and administrative staff;
5. financial characteristics;
6. characteristics of the process of graduates' transition from studies to the labor market.

The **aim** of monitoring the progress of HEIs is to systematically collect, analyze and prepare information on the activities of Lithuanian HEIs and their changes; to identify trends in the activities of higher education institutions. The information can be used:

1. to identify the strengths and problem areas of HEIs;
2. to identify the need for further research to propose public policy measures to ensure the progress of HEIs in their areas of strength;
3. to identify the need for additional research that would allow proposing public policy measures to solve the problems of HEIs;
4. to initiate the necessary systemic changes in HEIs.

INDICATORS

The indicators of methodological means consist of indicators for monitoring the progress of universities (28 indicators) and indicators for monitoring the progress of colleges (22 indicators). Given numeration of indicators in the methodological means is presented. According to the object of monitoring, the indicators can be divided into six groups, reflecting:

- 1. general characteristics of HEIs** (number of students and doctoral students, number of positions held by lecturers, researchers, heads with administrative staff);
- 2. characteristics of students and studies of HEIs** (characteristics of the study program, change in

the number of enrollments; scoring of enrollments in HEIs; share of drop-outs; potential socio-economic role of institution in a region; internationalization of studies);

3. characteristics of research staff of HEIs and results of performance (ratio of the number of positions occupied by researchers to the number of positions occupied by lecturers; number of doctoral students per researcher position; assessment of benchmarking; income of university from R&D);

4. characteristics of teaching and administrative staff (data on participation of lecturers and administrative staff in the activities of the institution, qualification of lecturers, age profile, structure of staff);

5. financial characteristics (financial data on salaries, studies, R&D);

6. characteristics of the process of graduates' transition from studies to labor market (employment status of students and graduates (employed, continuing studies, unemployed, etc.), data on salaries of employed ones).

UNIVERSITY INDICATORS ACCORDING TO INSTITUTIONS, GROUPS OF STUDY FIELDS AND SCIENCE FIELDS

GENERAL INDICATORS

The group consists of general KPIs for monitoring the activities of HEI, which collect, analyze and provide information on the number of participants in the activities of the institution and their changes. These indicators include the total number of students and lecturers, administration and other staff, doctoral students and researchers, reflect the size of the institution, the profiles of study fields and science fields.

Indicators according to institutions, groups of study fields.

1. Number of students
2. Number of full-time academic staff
3. Number of PhD students
4. Number of full-time research staff
5. Number of full-time non-academic staff (heads and administrative staff)

I. STUDENTS: PREPARATION AND PARTICIPATION IN STUDIES

The group of KPIs for monitoring the activities of HEIs, the indicators of which collect, analyze and provide information on the preparation and participation in the study process by students of a particular institution, as well as the change in these indicators.

Indicators according to institutions and groups of study fields.

6. Change in the number of study entrants
7. Average grade score of study entrants enrolled in HEI
8. Proportion of students in study programs / study fields accredited for the maximum period
9. Proportion of non-drop outs to all students

II. INTERNATIONALISATION OF STUDIES

A group of KPIs for monitoring the activities of HEI, the indicators of which collect, analyze and provide information on the internationalization of the institution's studies and their change: the participation of students and lecturers in exchange programs, as well as full-time enrollment of international students. Indicators according to institutions and groups of study fields.

10. Proportion of foreign nationals, who have come to the full study program, to all students
11. Ratio of academic lecturers who came to lecture according to the exchange programs to the full-time positions occupied by academic staff
12. Proportion of outgoing student exchanges per student

III. RESEARCH

13. Ratio of the number of full-time positions occupied by researchers to the number of full-time positions occupied by lecturers
14. Number of PhD students per researcher's full-time position
15. Estimate of the ongoing assessment of international benchmarking
16. The ratio of the university's income from R&D to the total payments to the university by legal entities and physical persons

IV. STAFF: ACADEMIC AND NON-ACADEMIC

A group of KPIs for monitoring the activities of HEI, the indicators that collect, analyze and provide information on the participation of institution staff - lecturers and administration - in the activity of the institution, change in participation: qualification of lecturers, age, structure of staff. Indicators according to institutions and groups of study fields.

17. Proportion of academic staff with PhD (recognized artist) qualification
18. Ratio of full-time academic staff to the total number of academic staff
19. Number of full-time academic staff positions per one student
20. Ratio of full-time positions occupied by academic staff (lecturers together with researchers) to full-time positions occupied by non-academic staff (administration staff together with heads)
21. Proportion of full-time academic staff aged up to 55 years

V. FINANCIAL DATA: SALARIES, STUDIES, R&D

A group of KPIs for monitoring the activities of HEI, the indicators that collect, analyze and provide information on the institutions' expenditures on studies, research, and salaries of academic staff. Indicators according to institutions.

22. Ratio of the gross salary of the teaching staff to the gross salary of the total staff of the institution
23. Proportion of study expenditure to total expenditure
24. Proportion of research expenditure to total expenditure

VI. GRADUATES IN LABOR MARKET

A group of KPIs for monitoring the activities of HEI, the indicators of which collect, analyze and provide information on the participation of graduates of institutions in the labor market and its change. Indicators according to institutions and groups of study fields.

25. Proportion of first-cycle graduates working in at least one workplace in 1-3 main occupational groups of the Lithuanian Classification of Occupations out of all working graduates (12 months after graduation)
26. Proportion of second-cycle, full-time and vocational graduates working in 1-2 main occupational groups of the Lithuanian Classification of Occupations out of all working graduates (12 months after graduation)

27. Average monthly insured income of employed graduates
28. Proportion of graduates not registered as unemployed at the Lithuanian Employment Service out of all graduates (12 months after graduation)
29. Proportion of graduates who have completed the first cycle studies and continue their studies in the second cycle studies

COLLEGE INDICATORS ACCORDING TO INSTITUTIONS AND GROUPS OF STUDY FIELDS

GENERAL INDICATORS

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Indicators according to institutions, groups of study fields.

1. Number of students
2. Number of full-time academic staff
3. Number of full-time non-academic staff (heads and administrative staff)

I. STUDENTS: PREPARATION AND PARTICIPATION IN STUDIES

The group of KPIs for monitoring the activities of HEIs, the indicators of which collect, analyze and provide information on the preparation and participation in the study process by students of a particular institution, as well as the change in these indicators.
Indicators according to institutions and groups of study fields.

4. Change in the number of study entrants
5. Average grade score of study entrants enrolled in HEI
6. Proportion of students in study programs / study fields accredited for the maximum period
7. Proportion of non-drop outs to all students

II. THE SOCIO-ECONOMIC ROLE OF STUDIES TO THE REGION

A group of KPIs for monitoring the activities of HEIs, the indicators that collect, analyze and provide information on the socio-economic role of the institutions in the region (attracting and retaining students in the institution's region).
Indicators according to institutions and groups of study fields.

8. Proportion of entrants from the region where the college operates
9. Ratio of those enrolled in the first year of a group of study fields of a regional college to those enrolled in the first year of the same group of study fields in other colleges
10. Proportion of graduates employed in the region out of all graduates of the institution or its branch (one year after graduation)

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11. Ratio of academic lecturers who came to lecture according to the exchange programs to the full-time positions occupied by academic staff
12. Proportion of outgoing student exchanges per student

IV. STAFF: ACADEMIC AND NON-ACADEMIC

A group of KPIs for monitoring the activities of HEI, the indicators that collect, analyze and provide information on the participation of institution staff - lecturers and administration - in the activity of the institution, change in participation: qualification of lecturers, age, structure of staff. Indicators according to institutions and groups of study fields.

13. Proportion of academic staff with PhD (recognized artist) qualification
14. Ratio of full-time academic staff to the total number of academic staff
15. Number of full-time academic staff positions per one student
16. Ratio of full-time positions occupied by academic staff (lecturers together with researchers) to full-time positions occupied by non-academic staff (administration staff together with heads)

V. FINANCIAL DATA: SALARIES, STUDIES, R&D

A group of KPIs for monitoring the activities of HEI, the indicators of which collect, analyze and provide information on the institutions' expenditures on studies, research and salaries of academic staff. Indicators according to institutions.

17. Ratio of the gross salary of the teaching staff to the gross salary of the total staff of the institution
18. Proportion of study expenditure to total expenditure
19. Ratio of income from R&D activities out of the total R&D funds allocated to the college

VI. GRADUATES IN LABOR MARKET

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20. Proportion of graduates working in at least one workplace in 1-3 main occupational groups of the Lithuanian Classification of Occupations out of all working graduates (12 months after graduation)
21. Average monthly insured income of employed graduates
22. Proportion of graduates not registered as unemployed at the Lithuanian Employment Service out of all graduates (12 months after graduation)