

Approved by the Academic Board of
The Teaching University
Geomedi LLC;
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The methodology of the data assessment analysis

Appendix №1

I. Assessment of educational program learning outcomes during the course of the program

Assessment of the learning outcomes of the educational program during the course of the program is carried out by the following criteria and methodology:

1. Lecturer and study course evaluation by the student

- A) Positive assessment from students is 100% - 3 points
- B) Positive assessment from students is 75-99% - 2 points
- C) Positive assessment from students is 51-74% - 1 point

The involvement of the 95% or more of students with active status enrolled in the program are required for the credibility of the Semester Analysis Survey of Professor / Teacher Evaluation Questionnaire. The questionnaire will be considered positive if 18-36 points are received.

2. Programs and services evaluation by Academic and Invited Personnel

- A) Positive assessment from the professors / teachers implementing the program is 100% - 3 points
- B) The positive assessment from the professors / teachers implementing the program is 75-99% - 2 points
- C) The positive assessment from the professors / teachers implementing the program is 51-74% - 1 point

For the credibility of the survey, the involvement of 95% or more of the professors/teachers implementing the program is required. The questionnaire will be considered positive if 24-48 points are received.

3. Students' academic performance midterm result evaluation:

- A) If 70-100% of the students registered for the program receive the maximum number of midterm evaluation points (up to 50-70 points) - 3 points
- B) If 30-69% of the students enrolled in the program receive the maximum number of midterm evaluation points (up to 50-70 points) - 2 points
- C) If 10-29% of the students enrolled in the program receive the maximum number of midterm evaluation points (up to 50-70 points) – 1 point

4. Students' final result evaluation:

- A) 91-100% of students received A, B, C grades - 7 points
- B) 81-90% of students received A, B, C grades - 6 points
- C) 71-80% of students received A, B, C grades - 5 points
- D) 61-70% of students received A, B, C grades - 4 points
- E) 51-60% of students received A, B, C grades - 3 points
- F) 41-50% of students received A, B, C grades - 2 points
- G) 0-40% of students received A, B, C grades - 1 point

At the end of the semester, the average percentage of A, B, C grades of students enrolled in the program is calculated in every subject and the relevant score is assigned.

5. Evaluation of using practical skills by the student:

- A) In one academic semester, in the practical skills part (results of practical skills of integrated modules (norm and pathology) or results of practical skills of students in curative training courses) 70-100% of students scored A and B grades - gets 3 points
- B) In one academic semester, in the practical skills part (results of practical skills of integrated modules (norm and pathology) or results of practical skills of students in curative training courses) 30-69% of students scored A and B grades - gets 2 points
- C) In one academic semester, in the practical skills part (results of practical skills of integrated modules

(norm and pathology) or results of practical skills of students in curative training courses) 0-10% of students scored A and B grades - gets 1 points

6. Evaluation of the Administrative Services by the student

- A) Administrative services were positively assessed by 100% - 3 points
- B) Administrative services were positively assessed by 75-99% - 2 points
- C) Administrative services were positively assessed by 51-74% - 1 point

For the credibility of the survey, 95% or more involvement of students with active status is required. The questionnaire will be considered positive if it receives 23-45 points

7. Assessment of students' scientific activity:

- A) 40% or more of the total number of students enrolled in the program are involved in scientific activities (published an article, a thesis, participated in a conference, grant project, scientific research) – 3 points
- B) 30-39% of students enrolled in the program are involved in scientific activities (published an article, thesis, participated in a conference, grant project, scientific research) – 2 points
- C) 6 -29% of students enrolled in the program are involved in scientific activities (published an article, thesis, participated in a conference, grant project, scientific research) – 1 point
- D) 1-5% of students enrolled in the program are involved in scientific activities (published an article, thesis, participated in a conference, grant project, research project) – 0 point

Summary of evaluation component points:

- 1) 20-25 points: The program has **excellent** outcome
- 2) 13-19 points: The program has **good** outcome
- 3) 8-12 points: The program outcome is **satisfactory**
- 4) 0-7 points: The program outcome is **poor**

II. Educational Program Learning Outcomes result evaluation components upon completion of the Program

1. Evaluation of programs and services by Academic and Invited Personnel

- A) Positive assessment from the professors / teachers implementing the program is 100% - 3 points
 - B) The positive assessment from the professors / teachers implementing the program is 75-99% - 2 points
 - C) The positive assessment from the professors / teachers implementing the program is 51-74% - 1 point
- For the credibility of the survey, the involvement of 95% or more of the professors/teachers implementing the program is required. The questionnaire will be considered positive if 24-48 points are received.

2. Evaluation of the practical application of the program and the acquired competencies of the alumni

- A) Positive assessment of alumni 100% - 3 points
- B) The positive assessment of alumni 75-99% - 2 points
- C) The positive assessment of alumni 51-74% - 1 point

For the credibility of the survey, the involvement of 95% or more of the employed alumni is required. The questionnaire will be considered positive if 11-21 points are received.

3. Employer questionnaire analysis and evaluation

- A) Positive assessment from employers is 100% - 3 points
- B) The positive assessment from employers is 75-99% - 2 points
- C) The positive assessment from employers is 51-74% - 1 point

For the credibility of the survey, the involvement of 95% or more of the employers is required. The questionnaire will be considered positive if 3-6 points are received.

4. Statistical assessment of graduates who continued their studies at the next level (for the educational programs of the Faculty of Dentistry and Medicine, residency programs are also included)

- A) 50% or more alumni who continue their studies at the next educational level- 3 points
- B) 20-49% alumni who continue their studies to the next educational level - 2 points
- C) 1-19% alumni who continue their studies at the next educational level - 1 point

5. Statistical analysis of alumni employed according to their specialty:

- A) The number of alumni employed in the field of their specialty within 6 months upon completion of the program exceeds 70% - 3 points
- B) The number of alumni employed in the field of their specialty in 1-2 years after completing the program is 50-70 % - 2 points
- C) The number of alumni employed in the field of their specialty and number does not exceed 50% - 1 points

6. Statistics of the alumni (how many graduated from university in the standard term)

- A) If the number of alumni is 100% - 3 points
- B) If the number of alumni is 75-99% - 2 points
- C) If the number of alumni is 51-74% - 1 point

For the credibility of the survey, the involvement of 100% students / alumni is required.

7. Assessment of the student's portfolio

- A) 70-100% of graduates gets A and B grades in the portfolio assessment - 3 points
- B) 30-79% of graduates gets A and B grades in the portfolio assessment - 2 points
- C) 10-29% of graduates gets A and B grades in the portfolio assessment - 1 points

Summary of assessment component points

- 1) 22-27 points: The program has **an excellent** outcome
- 2) 16-21 points: The program has **good** outcome
- 3) 0-15 points: The program outcome is **poor**

III. *Instructions for evaluating the results of student's sectorial competences*

During the step-by-step monitoring, each field competence is evaluated at the end of each academic year, as well as all the field competencies together, both vertically and horizontally. Both horizontal and vertical assessment of each competency is individual (see Sector Competency Assessment Table).

1. During the step-by-step monitoring, each field competency is assessed horizontally at the end of each academic year (see Sector Competency Assessment Table)

A) 3 Point - During the one academic year, according to one competency outcome result (in 70-100%) student gets A (91-100 point) and B (81-90 point)

B) 2 points - During the one academic year, according to one competency outcome result (in 30 -69%) student gets A (91-100 point) and B (81-90 point)

C) 1 point - During the one academic year, according to one competency outcome result (in 10-29%) student gets A (91-100 point) and B (81-90 point)

Positive assessment – 6 - 18 point

2. For the final assessment, the points in all competencies of 6 academic years are summarized.

Each competency is awarded 1-3 points vertically at the end of each academic year:

A) 3 Point - During the six-academic year, according to one competency outcome result (in 70-100%) student gets A (91-100 point) and B (81-90 point)

B) 2 points - During the six academic year, according to one competency outcome result (in 30 -69%) student gets A (91-100 point) and B (81-90 point)

C) 1 point - During the six academic year, according to one competency outcome result (in 10-29%) student gets A (91-100 point) and B (81-90 point)

Positive assessment - 6-18 point

The program at the end of the 6th academic year can be assessed by the following ranking of points:

1. 180-234 points -very good (this segment of the program is assessed with 3 points)
2. 130-179 points – Good (this segment of the program is assessed with 2 points)
3. 78-129 points – Satisfactory (this segment of the program is assessed with 1 point)
4. Less than 78 points will be considered negative results and will be assessed with 0 points.

Assessment of learning outcomes of bachelor's, master's and one-cycle dentistry educational programs

To monitor and measure the achievement of study outcomes of undergraduate (bachelor's), graduate (master's) and one-step dentistry educational programs, Step by step monitoring of the output of the program (Annual) and final evaluation (after completion of the program) must be carried out.

1. During the step-by-step monitoring, each field competency is assessed horizontally at the end of each academic year (see Sector Competency Assessment Table)

A) 3 Point - During the one academic year, according to one competency outcome result (in 70-100%) student gets A (91-100 point) and B (81-90 point)

B) 2 points - During the one academic year, according to one competency outcome result (in 30 -69%) student gets A (91-100 point) and B (81-90 point)

C) 1 point - During the one academic year, according to one competency outcome result (in 10-29%) student gets A (91-100 point) and B (81-90 point)

Positive assessment (dentistry) - 9-27 Points

Positive assessment (bachelor) - 6-18 Points

Positive assessment (Master's degree) - 7-21 Points

2. For the final assessment, the points in all competencies of 6 academic years are summarized. Each competency is awarded 1-3 points vertically at the end of each academic year:

A) 3 Point - During the six-academic year, according to one competency outcome result (in 70-100%) student gets A (91-100 point) and B (81-90 point)

B) 2 points - During the six academic year, according to one competency outcome result (in 30 -69%) student gets A (91-100 point) and B (81-90 point)

C) 1 point - During the six academic year, according to one competency outcome result (in 10-29%) student gets A (91-100 point) and B (81-90 point)

Positive assessment (dentistry) – 5-15 Points

Positive assessment (bachelor) - 4-12 Points

Positive assessment (Master's degree) - 2-6 Points

I. Undergraduate (Bachelor's) educational program can be assessed by the following ranking of the points at the end of the academic year:

1. 55-72 points - very good (this segment of the program gets 3 points)
2. 40-54 points – Good (this segment of the program gets 2 points)
3. 22-39 points – Satisfactory (this segment of the program gets 1 point)
4. 0-21 points - Negative (this segment of the program gets 0 point)

II. Master's Degree educational program can be assessed by the following ranking of the points at the end of the academic year:

1. 26-36 points – very good (this segment of the program gets 3 points)
2. 16-25 points – Good (this segment of the program is assessed with 2 points)
3. 10-15 points – Satisfactory (this segment of the program gets 1 point)
4. 0 - 9 points - Negative (this segment of the program gets 0 point)

III. One-cycle dentistry educational program can be assessed by the following ranking of the points at the end of the academic year:

1. 76 - 90 points – very good (this segment of the program gets 3 points)
2. 60 - 75 points – Good (this segment of the program gets 2 points)
3. 42 -59 points – Satisfactory (this segment of the program gets 1 point)
4. 0 - 41 points - Negative (this segment of the program gets 0 point)

IV. Assessment of student's learning achievements

Student's learning achievements are assessed according to the courses included in the learning outcomes.

A) 3 Point - During the one academic year, according to one competency outcome result (in 70-100%) student gets A (91-100 point) and B (81-90 point)

B) 2 points - During the one academic year, according to one competency outcome result (in 30 -69%) student gets A (91-100 point) and B (81-90 point)

C) 1 point - During the one academic year, according to one competency outcome result (in 10-29%) student gets A (91-100 point) and B (81-90 point)

D) 0 point - During the one academic year, according to one competency outcome result (in 0-9%) student gets A (91-100 point) and B (81-90 point)

Positive assessment (dentistry) - 9-27 Points

Positive assessment (bachelor) - 6-18 Points

Positive assessment (Master's degree) - 7-21 Points

Assessment of students' practical skills in curative courses:

Evaluation of the final exam's Mini clinical (Mini-CEX) part results:

- 19-20 - 5 points (A)
- 16-18 - 4 points (B)

- 13-15 - 3 points (C)
- 10-12 - 2 points (D)
- 0-9 - 1 point (E)

Objectively structured clinical trial (OSCE) Part of the midterm exam results:

- 11-12 - 5 points (A)
- 9-10 - 4 points (B)
- 7-8 - 3 points (C)
- 5-6 - 2 points (D)
- 0-4 - 1 point (E)

Assess results of the practical skills of integrated modules(norm and pathology)

Assessment of clinical skills part of the norm and pathology integrated modules workshops:

- 10 - 5 points (A)
- 8 - 9 - 4 points (B)
- 6 - 7 - 3 points (C)
- 4 - 5 - 2 points (D)
- 0-3 - 1 point (E)

Evaluation of the results of the objective structured practical examination (OSPE) of the practical component of the final examination in the norm modules:

- 22-24 - 5 points (A)
- 19-21 - 4 points (B)
- 16-18 - 3 points (C)
- 12-15 - 2 points (D)
- 0-11 - 1 point (E)

Evaluation of the practical component of the final exam (OSCE part results):

- 22-24 - 5 points (A)
- 19-21 - 4 points (B)
- 16-18 - 3 points (C)
- 12-15 - 2 points (D)
- 0-11 - 1 point (E)

Faculty of Medicine

The student is assessed according to 13 sectoral competences (By assessing the subjects within each competency) during six-year study period, with a maximum of 3 points per year, respectively $13 * 3 = 39$

- A) 35-39 points - a very good result
- B) 25-34 points - good result
- C) 0-24 points – a satisfactory result

Faculty of Dentistry

The student is assessed according to the 9 learning outcomes (by assessing the subjects included in each learning outcome), for a six-year period, a maximum of 3 points per year, respectively $9 * 3 = 27$

- A) 22-27 points - a very good result
- B) 15 - 21 points - good result
- C) 0-14 points – a satisfactory result

Undergraduate (Bachelor's degree)

The student is assessed according to the 6 learning outcomes (by assessing the subjects included in each learning outcome), for a four-year period, a maximum of 3 points per year, respectively $6 * 3 = 18$

- A) 13-18 points - a very good result
- B) 7- 12 points - good result
- C) 0-7 points – a satisfactory result

Master's studies

The student is assessed according to the 7 learning outcomes (by assessing the subjects included in each learning outcome), for a two-year period, a maximum of 3 points per year, respectively $7 * 3 = 21$

- A) 16-21 points - a very good result
- B) 10-15 points - good result
- C) 0-10 points – a satisfactory result

Questionnaires for employers and potential employers as well as alumni are not loaded into the learning process management information system as this is an external survey. Questionnaires are uploaded to freeonlinesurveys.com and links are emailed to respondents.

VII. Portfolio evaluation methodology

Evaluation of the norm module (anatomy, histology, biochemistry, physiology, clinical skills) - 1-10 points

- a) The student received the grade (A) in all modules of the standard - 10 points
- b) The student received a grade (A, B) in all modules of the standard - 9 points

- c) The student received a grade (A, B, C) in all modules of the norm - 8 points
 - d) The student received a grade in all modules of the norm (A, B, C, D) - 7 points
 - e) the student received a grade in all modules of the norm (A, B, C, D, E) - 6 points
 - f) The student has passed one standard module - 5 points
 - g) The student has passed two standard modules - 4 points
 - h) The student has passed three standard modules - 3 points
 - i) The student has passed four standard modules - 2 points
 - k) The student has passed more than five standard modules - 1 point
- 1) Evaluation of pathology module (anatomy, histology, biochemistry, physiology, clinical skills) - 1-10 points
- a) The student received grade (A) – 10 points in all modules of pathology
 - b) The student received a grade (A, B) in all modules of pathology - 9 points
 - c) The student received a grade (A, B, C) in all modules of pathology - 8 points
 - d) The student received a grade in all modules of pathology (A, B, C, D) - 7 points
 - e) The student received a grade in all pathology modules (A, B, C, D, E) - 6 points
 - f) The student has passed one pathology module - 5 points
 - g) The student has passed two pathology modules - 4 points
 - h) The student has passed three pathology modules - 3 points
 - i) The student has passed four pathology modules - 2 points
 - k) The student has passed more than five pathology modules - 1 point
- 2) Norm module evaluation (clinical skills OSPE) - 1-10 points
- a) the student received a grade of 23 - 24 points - 10 points in the OSPE segment of all modules of the norm
 - b) In the OSPE segment of all modules of the norm, the student received a grade of 21 - 22 points - 9 points
 - c) the student received a grade of 19 - 20 points - 8 points in the OSPE segment of all modules of the norm
 - d) the student received a grade of 17 - 18 points - 7 points in the OSPE segment of all modules of the norm
 - e) the student received a grade of 15-16 points - 6 points in the OSPE segment of all modules of the norm
 - f) the student received a grade of 13 - 14 points - 5 points in the OSPE segment of all modules of the norm
 - g) the student received a grade of 11 - 12 points - 4 points in the OSPE segment of all modules of the norm
 - h) the student received a grade of 9 - 10 points - 3 points in the OSPE segment of all modules of the norm
 - i) the student received a grade of 7 - 8 points - 2 points in the OSPE segment of all modules of the norm
 - j) The student received a grade of 1 - 6 points - 1 point in the OSPE segment of all modules of the norm

3) Evaluation of pathology module (clinical skills - OSCE) - 1-10 points

- a) the student received a grade of 23 - 24 points - 10 points in the OSCE segment of all modules of the norm
- b) The student received a grade of 21 - 22 points - 9 points in the OSCE segment of all modules of the norm.
- c) the student received a grade of 19 - 20 points - 8 points in the OSCE segment of all modules of the norm
- d) the student received a grade of 17 - 18 points - 7 points in the OSCE segment of all modules of the norm
- e) the student received a grade of 15 - 16 points - 6 points in the OSCE segment of all modules of the norm
- f) the student received a grade of 13 - 14 points - 5 points in the OSCE segment of all modules of the norm
- g) The student received a grade of 11 - 12 points - 4 points in the OSCE segment of all modules of the norm.
- h) In the OSCE segment of all modules of the norm, the student received a grade of 9 - 10 points - 3 points
- i) In the OSCE segment of all modules of the norm, the student received a grade of 7 - 8 points - 2 points
- k) The student received a grade of 1 - 6 points - 1 point in the OSCE segment of all modules of the norm.

4) Evaluation of the clinical practical skills of curations: the arithmetic mean of the mini-clinical (Mini-Cex) exam and the objectively structured practical exam of curations (OSCE) - 1-10 points

• Curation mini-clinical (Mini-Cex) test evaluation

- a) The student received an assessment of 10 points - 10 points in all curation mini-clinical segments
- b) The student received an assessment of 9 points - 9 points in all curation mini-clinical segments
- c) The student received an assessment of 8 points - 8 points in all curation mini-clinical segments
- d) The student received a grade of 7 points - 7 points in all curation mini-clinical segments
- e) The student received an assessment of 6 points - 6 points in all curation mini-clinical segments
- f) The student received an assessment of 5 points - 5 points in all curation mini-clinical segments
- g) The student received an assessment of 4 points - 4 points in all curation mini-clinical segments
- h) The student received an assessment of 3 points - 3 points in all curation mini-clinical segments
- i) The student received an assessment of 2 points - 2 points in all curation mini-clinical segments
- k) The student received an assessment of 1 point - 1 point in all curation mini-clinical segments

• Objectively structured practical examination of curations (OSCE) - 1-10 points

- a) the student received a grade of 23 - 24 points in all the OSCE segments of curation - 10 points
- b) the student received a grade of 21-22 points in all the OSCE segments of curation - 9 points
- c) The student received a grade of 19 - 20 points - 8 points in all the OSCE segments of curation.
- d) the student received a grade of 17 - 18 points - 7 points in all the OSCE segments of curation
- e) the student received a grade of 15 - 16 points - 6 points in all the OSCE segments of curation
- f) the student received a grade of 13 - 14 points - 5 points in all the OSCE segments of curation
- g) The student received a grade of 11 - 12 points - 4 points in all the OSCE segments of curation.

- h) The student received a grade of 9 - 10 points - 3 points in all the OSCE segments of curation
- i) The student received a grade of 7 - 8 points - 2 points in all curation OSCE segments
- k) The student received a grade of 1 - 6 points - 1 point in all the OSCE segments of curation

5) Clinical critical thinking - 1-5 points

- a) The student received the grade (A) – 5 points in the mentioned subject
- b) The student received a grade (B) in the mentioned subject - 4 points
- c) The student received a grade (C) in the mentioned subject - 3 points
- d) The student received a grade (D) - 2 points in the mentioned subject
- e) The student received the grade (E) – 1 point in the mentioned subject

6) Scientific skills: a) academic writing b) scientific research methods c) evidence-based medicine (arithmetic average) - 1-8 points

- a) The student received the grade (A) in the mentioned subjects - 8 points
- b) The student received the grade (B) in the mentioned subjects - 7 points
- c) The student received a grade (C) in the mentioned subjects - 6 points
- d) The student received a grade (D) in the mentioned subjects - 5 points
- e) The student received a grade (E) in the mentioned subjects - 4 points
- f) The student has passed one of the mentioned subjects (FX) - 3 points
- g) The student has passed two of the mentioned subjects (FX) - 2 points
- h) The student has passed all three of the mentioned subjects (FX) - 1 point

7) GPA - 1-7 points

- a) Student's GPA is 3.6 -4 - 7 points
- b) Student's GPA is 3.1-3.5 – 6 points
- c) Student's GPA is 3-5 points
- d) Student's GPA is 2.1-2.9 - 4 points
- e) Student's GPA is 2-3 points
- f) Student's GPA is 1.1-1.9 - 2 points
- g) Student's GPA is 0.5 -1 - 1 point

8) Participation in conferences - 1-5 points

- a) The student took part in both international and local conferences as a speaker - 5 points
- b) The student took part in the international conference as a speaker - 4 points
- c) The student took part in the local conference as a speaker - 3 points

d) The student took part in the international conference as a co-author - 2 points

e) The student took part in the local conference as a co-author - 1 point

9) Student activities outside the curriculum (sports, culture, social projects) – 1-7 points

a) The student has a rating in any type of professional sport - 7 points

b) The student is active in university sports, cultural events, social projects - 6 points

c) The student is active in university sports events - 5 points

d) The student is active in university cultural events, social projects - 4 points

e) The student is active in university cultural events - 3 points

f) The student is active in university social projects - 2 points

g) The student took part in one social project - 1 point

10) Personal development: achievements, awards, skills, work experience, scientific/research projects, exchange programs – 1-13 points

a) The student is a scholarship holder of the President's scholarship - 13 points

b) The student took part in more than one international scientific/research project - 12 points

c) The student participated in more than one local scientific/research project - 11 points

d) The student took part in an international scientific/research project - 10 points

e) The student took part in a local scientific/research project - 9 points

f) The student took part in the international exchange program - 8 points

g) professional skills / work experience - 7 points

h) The student is/was the chairman of the student self-government - 6 points

i) The student is/was a member of the student self-government - 5 points

k) The student is/was a group member - 4 points

k) Knowledge of several foreign languages - 3 points

m) Contribution to the university - 2 points

n) University supporting activity in social networks – 1 point

11) self-esteem (strengths and weaknesses)

A) GPA rating 1-5 points

b) Work experience/ professional skills, participation in scientific projects, participation in conferences, participation in exchange programs - 4 points

c) Participation in scientific projects, participation in conferences, participation in exchange programs 3

points

d) Participation in the conference, participation in exchange programs - 2 points

e) Participation in exchange programs - 1 point

12) portfolio evaluation

A) 100-91 points - grade - A

b) 90-81 points grade - B

c) 80-71 points grade - C

d) 70-61 points grade - D

e) 60-> points grade - E

- The change was made:
- In the evaluation of the learning outcomes of the educational program during the course of the program
- In the assessment of the learning outcomes of the educational program, components and methodology, after the completion of the program
- In the instructions for evaluating the results of the (specialist) competences acquired by the student
- Student portfolio and portfolio evaluation methodology were added to the methodology