

The change is approved by  
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Rector, Professor Marina Pirtskhalava

## Methodology of analysis of assessment data

### Appendix No. 1

#### I. The evaluation of the learning outcomes of the educational program during the course of the program is carried out according to the criteria and methodology given below

##### 1) Evaluation of the lecturer and the course by the student

- A) The positive assessment of students is 100% - 3 points
- b) The positive assessment of students is 75-99% - 2 points
- c) The positive assessment of students is 51-74% - 1 point

**Semester analysis of students', professors'/teachers' questionnaires/questionnaires for the reliability of the research, 95% and more involvement of students with active status registered in the program is required. The questionnaire will be considered positive if it receives 18-50 points.**

##### 2) Evaluation of the program and services by academic and visiting staff

- a) Positive assessment of the professors/teachers implementing the program 100% - 3 points
- b) The positive assessment of the professors/teachers implementing the program is 75-99% - 2 points
- c) The positive evaluation of the professors/teachers implementing the program is 51-74% - 1 point

**For the credibility of the research, the involvement of 95% or more of the professors/students implementing the program is required. The questionnaire will be considered positive if it receives 24-50 points**

##### 3) Evaluation of intermediate results of students' academic performance

- a) If 70-100% of the students registered for the program received the maximum number of intermediate evaluation points (up to 50-70 points) - 3 points
- b) if 30-69% of students registered for the program received the maximum number of intermediate evaluation points (up to 50-70 points) - 2 points
- c) if 10-29% of the students registered for the program received the maximum number of intermediate evaluation points (up to 50-70 points) - 1 point

#### 4) Evaluation of final results of students

- 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 all subjects enrolled in the corresponding academic year is calculated and the corresponding point is assigned.

#### 5) Evaluation of the performance of 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) and results of practical skills of students in curative training courses**) 70-100% of students scored A and B grades - 3 points are awarded
- b) In one academic semester, in the part of practical skills (**results of practical skills of integrated modules (norm and pathology) and results of practical skills of students in curative training courses**) 30-69% of students scored A and B grade, 2 points are assigned.
- c) In one academic semester, in the part of practical skills (**results of practical skills of integrated modules (norm and pathology) and results of practical skills of students in curative training courses**) 10-29% of students scored A and B grade, 1 point is assigned.

#### 6) Evaluation of administrative services by the student

- a) Administrative services were positively evaluated 100% - 3 points
- b) Administrative services were positively evaluated by 75-99% - 2 points
- c) Administrative services were positively evaluated by 51-74% - 1 point

**For the study to be valid, participation of 95% or more of students with active status is required. The questionnaire will be considered positive if it receives 23-50 points**

#### 7) evaluation of students' scientific activity

- a) 40% or more of the total number of students registered for the program are involved in scientific activities (published an article, thesis, participated in a conference, involved in a grant project, scientific research) - 3 points
- b) 30-39% of students registered for the program are involved in scientific activities (published an article, thesis, participated in a conference, involved in a grant project, scientific research) - 2 points.
- c) 6-29% or more of the students registered for the program are involved in scientific activities (published an article, a thesis, participated in a conference, are involved in a grant project, scientific research) - 1 point
- d) 1-5% of students registered for the program are involved in scientific activities (published an article, thesis, participated in a conference, involved in a grant project, scientific research) - 0 points

#### The sum of the scores of the evaluation components

- 1) 1) 20-25 points the program passes with a very good result

- 2) 2) 13-19 points, the program passes with a good result
- 3) 3) 8-12 points, the result of the program is satisfactory
- 4) 4) 0-7 points, the result of the program is bad

## Appendix No. 2

### II. Components and methodology of evaluation of the learning outcomes of the educational program after the completion of the program

#### 1) Evaluation of the program and services by academic and visiting staff

- a) Positive assessment of the professors/teachers implementing the program 100% - 3 points
- b) The positive assessment of the professors/teachers implementing the program is 75-99% - 2 points
- c) The positive assessment of the professors/teachers implementing the program is 51-74% - 1 point

**For the credibility of the research, the involvement of 95% or more of the professors/students implementing the program is required. The questionnaire will be considered positive if it receives 24-50 points**

#### 2) Evaluation of the graduate program and the practical application of acquired competencies

- A) The positive assessment of graduates is 100% - 3 points
- b) Positive assessment of graduates is 75-99% - 2 points
- c) Positive assessment of graduates is 51-74% - 1 point

**For the credibility of the research, the involvement of 95% or more of the graduates is required. The questionnaire will be considered positive if it receives 11-21 points**

#### 3) Analysis and evaluation of the employer's questionnaire

- A) positive assessment of the employer is 100% - 3 points
- b) Employer's positive assessment is 75-99% - 2 points
- c) positive assessment of the employer is 51-74% - 1 point

**For the study to be valid, the participation of 95% or more employers is required. The questionnaire will be considered positive if it receives 3-6 points**

#### 4) Statistical evaluation 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 of graduates continued their studies at the next level -3 points
- b) 20-49% of graduates continued their studies at the next level - 2 points
- c) 1-19% of graduates continued their studies at the next level - 1 point

#### 5) Statistics of employed graduates according to profile

- a) The number of graduates who were employed within 6 months after the end of the program with the profile exceeds 70% - 3 points
- b) The number of graduates who were employed within 1-2 years after the end of the program is 50-70% - 2 points

c) The number of graduates who were employed according to the profile does not exceed 50% - 1 point

**6) Statistics of graduates (how many graduated from the university within the standard term)**

- a) The number of graduates is 100% - 3 points
- b) The number of graduates is 75-99% - 2 points
- c) The number of graduates is 51-74% - 1 point

**For research credibility, 100% engagement of employed students and graduates is required.**

**7) Assessment of the student's portfolio**

- a) 70-100% of graduates scored A and B in the portfolio assessment - 3 points
- b) 30-69% of graduates scored A and B grades in the portfolio assessment, 2 points are awarded
- c) 10-29% of graduates scored A and B in the portfolio assessment, 1 point is assigned

**Sum of points of assessment components:**

- 1) 18-21 points, the program passes with a very good result
- 2) 12-17 points, the program passes with a good result
- 3) 0-11 points, the program cannot pass the result

**III.**

**Assessment of the results of students' practical skills in curative training courses and integrated modules (normal and pathology):**

**Evaluation of the results of the practical skills part of the Mini-Clinical Examination (Mini-CEX) intermediate exams:**

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

**Objective Structured Clinical Examination (OSCE) Final Exam Practical Skills Assessment Results:**

One-level educational program of a qualified physician	❖ One-level educational program of dentistry ❖ Physical medicine and rehabilitation educational program
<ul style="list-style-type: none"> <li>• 19 -20 – 5 points (A)</li> <li>• 17-18 – 4 points (B)</li> <li>• 15-16 – 3 points (C)</li> <li>• 13-14 – 2 points(D)</li> <li>• 11-12 – 1 points (E)</li> </ul>	<ul style="list-style-type: none"> <li>• 19-20 – 5 points (A)</li> <li>• 17-18 – 4 points (B)</li> <li>• 15-16 – 3 points (C)</li> <li>• 13-14 – 2 points(D)</li> <li>• 10-12 – 1 points (E)</li> </ul>

**Evaluation of Integrated Modules (Normal and Pathological) Practical Skills (OSCE) Outcomes (Intermediate)**

Assessment of the clinical skills part of the integrated modules of normality and pathology:

- 10 – 5 points (A)

- 9 – 4 points(B)
- 8 – 3 points (C)
- 7 – 2 points (D)
- 5-6 – 1 points(E)

**Evaluation of Objective Structured Clinical Examination (OSCE) results of the practical component of the final exam in pathology modules:**

- 15-16 – 5 points (A)
- 13-14 – 4 points (B)
- 11-12 – 3 points (C)
- 9-10 – 2 points (D)
- 7-8 – 1 points (E)

### **III. Methodology for Portfolio Evaluation**

#### **III.1**

**One-Step Educational Program for the Graduated Physician – Evaluation of Norm Modules (Anatomy, Histology, Biochemistry, Physiology, Clinical Skills) – 1-10 points**

- a) The student received an evaluation (A) in all norm modules – 10 points
- b) The student received an evaluation (A, B) in all norm modules – 9 points
- c) The student received an evaluation (A, B, C) in all norm modules – 8 points
- d) The student received an evaluation (A, B, C, D) in all norm modules – 7 points
- e) The student received an evaluation (A, B, C, D, E) in all norm modules – 6 points
- f) The student has retaken one norm module – 5 points
- g) The student has retaken two norm modules – 4 points
- h) The student has retaken three norm modules – 3 points
- i) The student has retaken four norm modules – 2 points
- j) The student has retaken more than five norm modules – 1 point

**One-Step Educational Program in Dentistry – Basic, Phantom, and Clinical Mandatory Courses – 1-10 points**

**Bachelor's/Master's Educational Programs in Physical Medicine and Rehabilitation – Basic Mandatory Courses – 1-10 points**

**Bachelor's Programs in Healthcare Economics and Management and Master's Program in Healthcare Management – Mandatory Specialty Courses, General Mandatory Courses – 1-10 points**

- a) The student received an evaluation (A) in all courses – 10 points
- b) The student received an evaluation (A, B) in all courses – 9 points
- c) The student received an evaluation (A, B, C) in all courses – 8 points
- d) The student received an evaluation (A, B, C, D) in all courses – 7 points
- e) The student received an evaluation (A, B, C, D, E) in all courses – 6 points
- f) The student has retaken one course – 5 points
- g) The student has retaken two courses – 4 points
- h) The student has retaken three courses – 3 points
- i) The student has retaken four courses – 2 points

- j) The student has retaken more than five courses – 1 point

### III.2

#### One-Step Educational Program for the Graduated Physician – Evaluation of Pathology Modules (Pathology, Pharmacology, Clinical Skills)

- a) The student received an evaluation (A) in all pathology modules – 10 points
- b) The student received an evaluation (A, B) in all pathology modules – 9 points
- c) The student received an evaluation (A, B, C) in all pathology modules – 8 points
- d) The student received an evaluation (A, B, C, D) in all pathology modules – 7 points
- e) The student received an evaluation (A, B, C, D, E) in all pathology modules – 6 points
- f) The student has retaken one pathology module – 5 points
- g) The student has retaken two pathology modules – 4 points
- h) The student has retaken three pathology modules – 3 points
- i) The student has retaken four pathology modules – 2 points
- j) The student has retaken more than five pathology modules – 1 point

### III.3

#### One-Step Educational Program for the Graduated Physician – Evaluation of Norm Modules (Clinical Skills Mini - OSCE) – 1-10 points

- a) The student received an evaluation of 12 points in the **mini** - OSCE segment of all norm modules – 10 points
- b) The student received an evaluation of 11-12 points in the **mini** - OSCE segment of all norm modules – 9 points
- c) The student received an evaluation of 10-12 points in the **mini** - OSCE segment of all norm modules – 8 points
- d) The student received an evaluation of 9-12 points in the **mini** - OSCE segment of all norm modules – 7 points
- e) The student received an evaluation of 8-12 points in the **mini** - OSCE segment of all norm modules – 6 points
- f) The student received an evaluation of 7-12 points in the **mini** - OSCE segment of all norm modules – 5 points
- g) The student received an evaluation of 6-12 points in the **mini** - OSCE segment of all norm modules – 4 points
- h) The student has retaken the **mini** - OSCE segment in one of the norm modules – 3 points
- i) The student has retaken the **mini** - OSCE segment in two norm modules – 2 points
- j) The student has retaken the **mini** - OSCE segment in more than two norm modules – 1 point

### III.4

#### One-Step Educational Program for the Graduated Physician – Evaluation of Pathology Modules (Clinical Skills Mini - OSCE) – 1-10 points

- a) The student received an evaluation of 16 points in the **mini** - OSCE segment of all pathology modules – 10 points
- b) The student received an evaluation of 15-16 points in the **mini** - OSCE segment of all pathology modules – 9 points

- c) The student received an evaluation of 14-16 points in the **mini** - OSCE segment of all pathology modules – 8 points
- d) The student received an evaluation of 13-16 points in the **mini** - OSCE segment of all pathology modules – 7 points
- e) The student received an evaluation of 12-16 points in the **mini** - OSCE segment of all pathology modules – 6 points
- f) The student received an evaluation of 11-16 points in the **mini** - OSCE segment of all pathology modules – 5 points
- g) The student received an evaluation of 10-16 points in the **mini** - OSCE segment of all pathology modules – 4 points
- h) The student received an evaluation of 9-16 points in the **mini** - OSCE segment of all pathology modules – 3 points
- i) The student received an evaluation of 8-16 points in the **mini** - OSCE segment of all pathology modules – 2 points
- j) The student received an evaluation of 7-16 points in the **mini** - OSCE segment of all pathology modules – 1 point

### III.5

#### Practical Skills

#### **One-Step Educational Program for the Graduated Physician – Evaluation of Clinical Practical Skills in Clinical Rotation: Mini-Clinical Exam (Mini-Cex), Objective Structured Clinical Exam (OSCE) (Arithmetic Mean) – 1-10 points**

- a) The student received an evaluation of 10 points in all **mini-clinical (Mini-Cex)** exams for clinical rotations – 10 points
- b) The student received an evaluation of 9-10 points in all **mini-clinical (Mini-Cex)** exams for clinical rotations – 9 points
- c) The student received an evaluation of 8-10 points in all **mini-clinical (Mini-Cex)** exams for clinical rotations – 8 points
- d) The student received an evaluation of 7-10 points in all **mini-clinical (Mini-Cex)** exams for clinical rotations – 7 points
- e) The student received an evaluation of 6-10 points in all **mini-clinical (Mini-Cex)** exams for clinical rotations – 6 points
- f) The student received an evaluation of 5-10 points in all **mini-clinical (Mini-Cex)** exams for clinical rotations – 5 points
- g) The student has retaken the **mini-clinical (Mini-Cex)** exam in one clinical course – 4 points
- h) The student has retaken the **mini-clinical (Mini-Cex)** exam in two clinical courses – 3 points
- i) The student has retaken the **mini-clinical (Mini-Cex)** exam in three clinical courses – 2 points
- j) The student has retaken the **mini-clinical (Mini-Cex)** exam in more than three clinical courses – 1 point

#### **Physical Medicine and Rehabilitation (Bachelor's/Master's) Educational Programs (1-8 points) Health Economics and Management (Bachelor's), Health Management (Master's) Educational Programs (1-8 points)**

- a) The student received an evaluation (A) in the course – 8 points
- b) The student received an evaluation (B) in the course – 7 points
- c) The student received an evaluation (C) in the course – 6 points
- d) The student received an evaluation (D) in the course – 5 points
- e) The student received an evaluation (E) in the course – 4 points

- f) The student has retaken the course (FX) – 3 points
- g) The student has retaken the course twice (FX) – 2 points
- h) The student has retaken the course three times (FX) – 1 point

### **III.6**

#### **Objective Structured Clinical Exam (OSCE) for Clinical Rotations – 1-10 points**

##### **One-Step Educational Program for the Graduated Physician**

- a) The student received an evaluation of 20 points in the OSCE segment of all clinical rotations – 10 points
- b) The student received an evaluation of 19-20 points in the OSCE segment of all clinical rotations – 9 points
- c) The student received an evaluation of 18-20 points in the OSCE segment of all clinical rotations – 8 points
- d) The student received an evaluation of 17-20 points in the OSCE segment of all clinical rotations – 7 points
- e) The student received an evaluation of 16-20 points in the OSCE segment of all clinical rotations – 6 points
- f) The student received an evaluation of 15-20 points in the OSCE segment of all clinical rotations – 5 points
- g) The student received an evaluation of 14-20 points in the OSCE segment of all clinical rotations – 4 points
- h) The student received an evaluation of 13-20 points in the OSCE segment of all clinical rotations – 3 points
- i) The student received an evaluation of 12-20 points in the OSCE segment of all clinical rotations – 2 points
- j) The student received an evaluation of 10-20 points in the OSCE segment of all clinical rotations – 1 point

##### **One-Step Educational Program in Dentistry**

##### **Physical Medicine and Rehabilitation (Bachelor's/Master's) Educational Programs**

##### **Bachelor's Program in Nursing**

- a) The student received an evaluation of 20 points in the OSCE segment of all clinical rotations – 10 points
- b) The student received an evaluation of 19-20 points in the OSCE segment of all clinical rotations – 9 points
- c) The student received an evaluation of 18-20 points in the OSCE segment of all clinical rotations – 8 points
- d) The student received an evaluation of 17-20 points in the OSCE segment of all clinical rotations – 7 points
- e) The student received an evaluation of 16-20 points in the OSCE segment of all clinical rotations – 6 points
- f) The student received an evaluation of 15-20 points in the OSCE segment of all clinical rotations – 5 points
- g) The student received an evaluation of 14-20 points in the OSCE segment of all clinical rotations – 4 points
- h) The student received an evaluation of 13-20 points in the OSCE segment of all clinical rotations – 3 points



- i) The student received an evaluation of 12-20 points in the OSCE segment of all clinical rotations – 2 points
- j) The student received an evaluation of 11-20 points in the OSCE segment of all clinical rotations – 1 point

### **III.7**

#### **Clinical Critical Thinking**

##### **One-Step Educational Program in Medicine, One-Step Educational Program in Dentistry - 1-5 points**

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

### **III.8**

#### **Scientific Skills:**

##### **One-Step Educational Program for the Graduated Physician (1-8 points)**

##### **One-Step Educational Program in Dentistry (1-8 points)**

- a) The student received a grade of (A) in all courses – 8 points
- b) The student received grades of (A, B) in all courses – 7 points
- c) The student received grades of (A, B, C) in all courses – 6 points
- d) The student received grades of (A, B, C, D) in all courses – 5 points
- e) The student received grades of (A, B, C, D, E) in all courses – 4 points
- f) The student retook one course – 3 points
- g) The student retook two courses – 2 points
- h) The student retook three courses – 1 point

##### **Scientific Skills: Academic Writing, Research Methods, Evidence-Based Medicine, Data Processing and Analysis, Bachelor's Thesis, Master's Thesis (Arithmetic Average) – 1-10 points**

##### **Physical Medicine and Rehabilitation (Bachelor's/Master's) Educational Programs – 1-10 points**

##### **Healthcare Economics and Management (Bachelor's), Healthcare Management (Master's) Educational Programs – 1-10 points**

- a) The student received a grade of (A) in all courses – 10 points
- b) The student received grades of (A, B) in all courses – 9 points
- c) The student received grades of (A, B, C) in all courses – 8 points
- d) The student received grades of (A, B, C, D) in all courses – 7 points
- e) The student received grades of (A, B, C, D, E) in all courses – 6 points
- f) The student retook one course – 5 points
- g) The student retook two courses – 4 points
- h) The student retook three courses – 3 points
- i) The student retook one course twice – 2 points
- j) The student retook more than two courses twice – 1 point

### **III.9**

#### **GPA – 1-7 points**

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

### **III.10**

#### **Participation in Conferences – 1-5 points**

- a) The student participated as a speaker in both international and local conferences – 5 points
- b) The student participated as a speaker in an international conference – 4 points
- c) The student participated as a speaker in a local conference – 3 points
- d) The student participated as a co-author in an international conference – 2 points
- e) The student participated as a co-author in a local conference – 1 point

### **III.11**

#### **Extracurricular Student Activities (Sports, Culture, Social Projects) – 1-7 points**

- a) The student has a ranking in any type of professional sport – 7 points
- b) The student is active in university sports, cultural events, and social projects – 6 points
- c) The student is active in university sports events – 5 points
- d) The student is active in university cultural events and 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 participated in one social project – 1 point

### **III.12**

#### **Personal Development: Achievements, Awards, Skills, Work Experience, Scientific/Research Projects, Exchange Programs – 1-13 points**

- a) The student is a recipient of the President's Scholarship – 13 points
- b) The student participated 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 participated in an international scientific/research project – 10 points
- e) The student participated in a local scientific/research project – 9 points
- f) The student participated in an international exchange program – 8 points
- g) Professional skills/work experience – 7 points
- h) The student is/was the chairperson of the student self-government – 6 points
- i) The student is/was a member of the student self-government – 5 points
- j) The student is/was a group leader – 4 points
- k) Knowledge of several foreign languages – 3 points
- l) Contribution to the university – 2 points
- m) Supportive activity for the university on social media – 1 point

### **III.13**

#### **Self-Assessment (Strengths and Weaknesses)**

- a) GPA ranking – 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 conferences, participation in exchange programs – 2 points
- e) Participation in exchange programs – 1 point

### **III.14**

#### **Portfolio Evaluation**

#### **One-Step Educational Program for the Graduated Physician**

#### **One-Step Educational Program in Dentistry**

- 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 and below – grade E

#### **Physical Medicine and Rehabilitation (Bachelor's/Master's) Educational Programs**

#### **Healthcare Economics and Management (Bachelor's), Healthcare Management (Master's) Educational Programs**

#### **Bachelor's Program in Nursing**

- a) 85-81 points – grade A
- b) 80-75 points – grade B
- c) 74-70 points – grade C
- d) 69-64 points – grade D
- e) 63 and below – grade E