UNIVERSITY OF MOSTAR

SAMPLE TESTS OF WRITTEN EXAMS AND CONCEPTS OF ORAL

AND PRACTICAL EXAMS

FOR

INTEGRATED UNIVERSITY STUDY PROGRAM

MEDICAL STUDIES IN ENGLISH

FOR THE ACADEMIC YEAR 2023./2024.

Medical physics and biophysics - MFMSE101

Sample test of the written exam

Code of the learning outcomes	Number of questions/ assignments	Maximum number of points on questions/tasks	The minimum number of points to achieve learning outcomes
IU-MFMSE101-1	5	5	2
IU-MFMSE101-2	4	4	2
IU-MFMSE101-3	10	10	4
IU-MFMSE101-4	4	4	2
IU-MFMSE101-5	5	5	2
IU-MFMSE101-6	12	12	5
IU-MFMSE101-7	4	4	2
IU-MFMSE101-8	4	4	2
IU-MFMSE101-9	12	12	5

IU-MFMSE104-1 (5 multiple choice questions with one correct answer (1 point x 5 = 5). A minimum of 2 points is required to complete IU-MFMSE104-1.

IU-MFMSE104-2 (4 multiple choice questions with one correct answer (1 point x 4 = 4). A minimum of 2 points is required to complete IU-MFMSE104-2.

IU-MFMSE104-3 (10 multiple choice questions with one correct answer (1 point x 10 = 10). A minimum of 4 points is required to complete IU-MFMSE104-3.

IU-MFMSE104-4 (4 multiple choice questions with one correct answer (1 point x 4 = 4). A minimum of 2 points is required to complete IU-MFMSE104-4.

IU-MFMSE104-5 (5 multiple choice questions with one correct answer (1 point x 5 = 5). A minimum of 2 points is required to complete IU-MFMSE104-5.

IU-MFMSE104-6 (12 multiple choice questions with one correct answer (1 point x 12 = 12). A minimum of 5 points is required to complete IU-MFMSE104-6.

IU-MFMSE104-7 (4 multiple choice questions with one correct answer (1 point x 4 = 4). A minimum of 2 points is required to complete IU-MFMSE104-7.

IU-MFMSE104-8 (4 multiple choice questions with one correct answer (1 point x 4 = 4). A minimum of 2 points is required to complete IU-MFMSE104-8.

IU-MFMSE104-9 (12 multiple choice questions with one correct answer (1 point x 12 = 12). A minimum of 5 points is required to complete IU-MFMSE104-9.

Range of points of passing grades:	33 – 39 sufficient (2) 40 – 46 good (3) 47 – 53 very good (4) 54 – 60 excellent (5) provided that the minimum number of points to achieve the learning outcomes for each task is achieved.

Practical exam:

After completing all the exercises, students are obligated to take practical exam related to the exercises. The tasks on the practical exam refer to one of the exercises completed during class. Students will be awarded with a bonus point during practical exam. Number of minimal bonus points that student should obtain during practical exam in order to qualify to take written exam is 2. Maximal number of bonus points that student can achieve during practical exam is 5.

Calculation of the final score:

Students have to pass the written exam (in form of a test, comprised of 60 questions, each containing 5 statements: 4 false and 1 true). The threshold for the written exam is 33 points. Number of total bonus points awarded during seminars and practical exam will be added to the written exam score if a student passes the threshold for the written exam of 33 points. Bonus points are valid only for the first exam term.

Medical biology – MFMSE102

Sample test of written exam

Course learning outcome code	Total number of questions	Maximum number of points on questions	Minimum number of points on questions
IU-MFMSE102-1	20	20	10
IU-MFMSE102-2	20	20	10
IU-MFMSE102-3	20	20	10
IU-MFMSE102-4	20	20	10

The written exam consists of 80 questions of multiple choice, each correct answer is awarded with one point.
For achieving IU-MFMSE102-1 min. of 10 points is needed.
For achieving IU-MFMSE102-2 min. of 10 points is needed.
For achieving IU-MFMSE102-3 min. of 10 points is needed.
For achieving IU-MFMSE102-4 min. of 10 points is needed.

The range for each grade and passing threshold:	excellent (5) – 72-80 total points very good (4) – 63-71 total points good (3) – 53-62 total points sufficient (2) – 44-52 total points insufficient (1) – less than 44 total points, provided that the minimum number of points to achieve the learning outcomes for each task is achieved. Final mark is calculated accordingly: seminar work (10% of grade) + seminar quizzes (10% of grade) + written exam (80 % of grade).

Subject: Medical biology
Concept of seminar work

Course learning outcome code	Name of the content unit	Number of questions related to the learning outcome	Min. numbers of correct answers for achieving the learning outcome
IU- MFMSE102-1,2,3,4	Macromolecules, cytoskeleton, transport of macromolecules, organelles, mitochondria and energy production, cell cycle, cell signaling and tumor biology, cell genome, replication and repair of DNA, transcription and RNA species, regulation of transcription, RNA modification, translation, regulation of translation, synthesis and modification of proteins, transport and function of proteins, fertilization, meiosis, mitosis, stem cells and the molecular mechanisms of cell differentiation, basic principles of genetic inheritance, sexual and autosomal inheritance, chromosome aberrations, genetic counseling	10	5

The range for each grade and passing threshold:	excellent (5) – correct answer on each question very good (4) – 9 correct answers and minimum number of questions per unit good (3) – 8 correct answers and minimum number of questions per unit sufficient (2) – 7 correct answers and minimum number of questions per unit insufficient (1) – minimum number of questions per unit is not answered correctly.

Subject: Medical biology
Concept for seminar quizzes

Course learning outcome code	Name of the content unit	Number of questions related to the learning outcome	Min. numbers of correct answers for achieving the learning outcome
IU- MFMSE102-1	Cell - evolution prokaryotes vs. eukaryotes, macromolecules, cytoskeleton, transport of macromolecules, organelles, mitochondria and energy production, cell cycle, cell signaling and tumor biology	40	20
IU- MFMSE102-2	Nucleic Acids, gens, eukaryotic organisms, DNA, Nucleus, transport, organization, nucleolus, genomic DNA, recombination, synthesis and RNA transcription, RNA trafficking, Synthesis and RNA transcription, transcription factors, translation, regulation of translation, synthesis and modification of proteins, Protein transport - vesicular transport, lysosome, transport and protein sorting - ER, Golgi Apparatus, Introduction to molecular biology - DNA replication and telomeres	40	20
IU- MFMSE102-3	fertilization, meiosis, mitosis, stem cells and the molecular mechanisms of cell differentiation	40	20
IU- MFMSE102-4	human genetics (basic principles of genetic inheritance, sexual and autosomal inheritance, chromosome aberrations, genetic counseling)	40	20

The range for each grade and passing threshold:	excellent (5) – 141– 160 correct answers and minimum number of questions per unit very good (4) – 121-140 correct answers and minimum number of questions per unit good (3) – 111-120 correct answers and minimum number of questions per unit sufficient (2) – 91-110 correct answers and minimum number of questions per unit insufficient (1) – minimum number of questions per unit is not answered correctly.

Course title: INTRODUCTION TO MEDICINE AND HISTORY OF MEDICINE
MFMSE103
Sample test – Written exam

Learning outcome code	Total number of questions	Maximum number of points on question	Minimum number of points on questions
IU- MFMSE103-1	10	10	5
IU- MFMSE103-2	10	10	5
IU- MFMSE103-3	10	10	5
IU- MFMSE103-5	10	10	5
IU- MFMSE103-6	10	10	5
IU- MFMSE103-7	10	10	5

IU- MFMSE103-1 ten multiple choice questions with only one correct answer (1 point x 10 =10). A minimum of 5 points is required to achieve **IU- MFMSE103-1.**

IU- MFMSE103-2 ten multiple choice questions with only one correct answer (1 point x 10 =10). A minimum of 5 points is required to achieve **IU- MFMSE103-2.**

IU- MFMSE103-3 ten multiple choice questions with only one correct answer (1 point x 10 =10). A minimum of 5 points is required to achieve **IU- MFMSE103-3.**

IU- MFMSE103-5 ten multiple choice questions with only one correct answer (1 point x 10 =10). A minimum of 5 points is required to achieve **IU- MFMSE103-5.**

IU- MFMSE103-6 ten multiple choice questions with only one correct answer (1 point x 10 =10). A minimum of 5 points is required to achieve **IU- MFMSE103-6.**

IU- MFMSE103-7 ten multiple choice questions with only one correct answer (1 point x 10 =10). A minimum of 5 points is required to achieve **IU- MFMSE103-7.**

The test consists of 60 multiple choice questions with only one correct answer. There are no negative points for incorrect answers. The range of points for passing grades is as follows:

Range of points for passing grades:	36 – 41 sufficient (2) 42– 48 good (3) 49 – 54 very good (4) 55 – 60 excellent (5) provided that the minimum number of points to achieve the learning outcomes for each task is achieved.

Note:	The learning outcome IU-MFMSE103-4 refers to teamwork, activities during classes and building positive relationships with group members, and it is monitored during the classes, especially during first aid exercises.

Scientific Methodology –MFMSE104

Sample test of written exam

Course learning outcome code	Total number of questions	Maximum number of points on questions	Minimum number of points on questions
IU-MFMSE104-1	8	8	4
IU-MFMSE104-2	2	2	1
IU-MFMSE104-3	13	13	7
IU-MFMSE104-4	4	4	2
IU-MFMSE104-6	3	3	1

The written exam consists of 30 questions
Written exam consists of 30 multiple choice questions, each correct answer is awarded with one point).
For achieving IU-MFMSE104-1; a minimum of 4 points is needed.
For achieving IU-MFMSE104-2; a minimum of 1 point is needed.
For achieving IU-MFMSE104-3; a minimum. of 7 points is needed.
For achieving IU-MFMSE104-4; a minimum of 2 points is needed.
For achieving IU-MFMSE104-6; a minimum of 1 point is needed.

The range for each grade and passing threshold:	excellent (5) – 28-30 total points very good (4) – 24-27 total points good (3) – 20-23 total points sufficient (2) – 17-19 total points insufficient (1) – less than 17 total points, provided that the minimum number of points to achieve the learning outcomes for each task is achieved.

Subject: Scientific Methodology
Concept of evaluating student's scientific work, oral and poster presentation

Course learning outcome code	Name of the content unit	Number of questions related to the learning outcome	Min. numbers of correct answers for achieving the learning outcome
IU- MFMSE104-5	The student writes, argues and presents a scientific paper.	20 points for the scientific paper 10 points for oral and poster presentation	10 points for the scientific paper 5 points for oral and poster presentation

During classes, students work in small groups according to the principles of teamwork (IU-MFMSE104-2), conduct scientific research and write a scientific paper that contributes 30% to the final grade, and have an oral and poster presentation of the scientific work (10% of the final grade).

In conclusion: The final grade is generated from four evaluation elements:
1. The regularity of the student's attendance at classes is 10% of the grade (range 0-12 points).
2. Written test 55% of the grade (range 0-30 points); a minimum of 17 points is needed to pass the exam.
3. Scientific paper 30% of the grade (range 0-20 points).
4. Oral and poster presentation of the final paper 10% of the grade (range 0-10 points).

Medical ethics MFMSE105 – Medical studies in English

Sample test:

Course learning outcome code	Total number of questions	Maximum number of points on questions	Minimum number of points on questions
IU- MFMSE105-1 IU- MFMSE105-2 IU- MFMSE105-3	1.	20	15
IU- MFMSE105-4 IU- MFMSE105-5	2.	20	15
IU- MFMSE105-6 IU- MFMSE105-7	3.	20	15

Q 1. Discuss emerging ethics challenges in medicine

Q 2. Discuss the ethical case presented, and answer questions listed after the case

Q 3. Discuss ethics issues in clinical research

The range for each grade and passing threshold:	excellent (5) – 58-60 total points very good (4) – 54-57 total points good (3) – 50-53 total points sufficient (2) – 45-49 total points insufficient (1) – less than 45 total points, provided that the minimum number of points to achieve the learning outcomes for each task is achieved.

Sample test - Croatian language 1 MFMSE106

Learning outcome code	Total number of questions/tasks	Maximum number of points on questions/tasks	Minimum number of points on questions/tasks
IU-MFMSE106-1 IU-MFMSE106-2	1. – 20.	80	40
IU-MFMSE106-3	1., 13., 19.	17	8,5
IU-MFMSE106-4	3., 5., 19.	15	7,5
IU-MFMSE106-5	13.	6	3

1. Upoznavanje. Pazite na pisanje velikoga i maloga slova.

    Mate Matić, doktor, Omladinska 6, mate.matic83@gmail.com, 065 345 4321

    _____

    _____

    _____

    _____

    _____

2. Upišite prezent glagola *biti*.

    a) Ja _____ student.   Oni _____ iz Zagreba.

       Ona _____ profesorica.   Vi _____ iz Austrije.

       Mi _____ Marko i Ivan.   On _____ doktor.

    b) _____ li Luis i Pedro iz Portugala. Da, _____.

       _____ li Ivana i Petra iz Splita. Ne, one _____ iz Splita.

       Je li Jean iz Francuske. Da, _____.

       Jesi li ti iz Šibenika? Ne, _____.

3. Dopunite dijalog izrazima: ***drago mi je, ste, na pitanju, sam, dobar dan, hvala, dan, kako, odlično, doviđenja.***

    Gospođa Anić: _____, gospodine Matić? Kako _____?

    Gospodin Matić: Dobar dan, gospođo Anić, hvala _____, odlično _____.

Gospođa Anić: _____.

Gospodin Matić: _____ ste Vi?

Gospođa Anić: _____ na pitanju, _____ sam.

Gospodin Matić: Ugodan _____.

Gospođa Anić: Ugodan dan i _____.

4. Napišite množinu sljedećih imenica.

automobil _____   čaša _____

torba _____   most _____

mobitel _____   rođak _____

računalo _____   miš _____

hotel _____   Nijemac _____

5. Dopunite sljedeće rečenice riječima koje odgovaraju po smislu: ***djed, ujak, teta, sin, kći,***

brat, sestra, bratić.

Ovo je moj tata. Njegov tata je moj _____.

Ovo je moja mama. Njezin brat je moj _____. Njezina sestra je moja _____.

Ovo je moja sestra. Ja sam njezin _____ / njezina _____.

Ovo je moja mama. Ja sam njezin _____ / njezina _____.

Ovo je moj ujak. Njegov sin je moj _____.

6. Napišite riječima koliko oni imaju godina.

Ana, 22   _____

Leon, 17   _____

Ivo, 64   _____

Martina, 5   _____

7. Napišite muški odnosno ženski rod.

_____   prodavačica   novinar   _____

pjevač   _____

učitelj   _____

_____   glumica

_____   frizerka

8. Dopunite sljedeće rečenice točnim oblikom pridjeva u zagradama.

Ispiti su _____. (težak)

To je _____ kuća. (topao)

Gramatika nije _____. (jednostavan)

Mi smo _____. (raspoložen)

Njegova soba je _____. (neuredan)

9. Upišite posvojni pridjev.

To je _____ pas. (brat)

Marta nije _____ kolegica. (sestra)

Je li ovo _____ knjiga? (Goran)

Gdje je _____ računalo? (Katarina)

Ovo nije _____ trg. (Jelačić)

10. Upišite prezent glagola *zvati se*.

On _____ *Marko.*   s ličnom zamjenicom _____

_____ *Sandra. (ja)*   bez lične zamjenice _____

One _____ *Mia i Petra.*   negacija

_____

Kako _____ *? (vi)*   pitanje   _____

11. Zadatak ima tri dijela.

a) Dopunite rečenice točnim oblikom glagola *imati*.

Ja _____ *knjigu.*

Policajac _____ *uniformu.*

Studenti _____ *ispite.*

Mi _____ *more.*

b) Rečenice iz prvoga dijela preoblikujte u niječne rečenice.

_____

_____

_____

_____

c) Rečenice iz drugoga dijela preoblikujte u upitne rečenice.

_____

_____

_____

_____

12. Dopunite sljedeće rečenice točnim oblikom sljedećih riječi: **student** *mn.,* **profesor** *mn.,*

    dekan, knjižnica, učionica *mn.,* **kantina, parkiralište.**

    Medicinski fakultet je velik fakultet. Ima _____, _____ i

    _____. Ima _____. Ima _____ i

    _____. Ima _____.

13. Što ima Mostar? Što nema Mostar? Koga ima Mostar?

    Stari most, sveučilište, rijeka *mn.*, more, Bojan Bogdanović, metro

    _____

    _____

    _____

    _____

    _____

14. Napišite rečenice.

    ti, studirati, medicina   _____

    mi, vježbati, gramatika (niječna)   _____

    djeca, večerati, tjestenina   _____

    oni, čitati, knjiga mn. (upitna)   _____
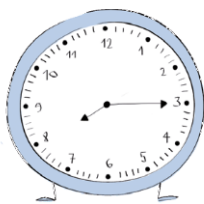
    on, svirati, gitara (niječna)   _____

15. Napišite prijedlog **u** ili **na**.

    Idemo _____ kino.

    Vi idete _____ večeru _____ novi restoran.

    Ideš li _____ Sarajevo?
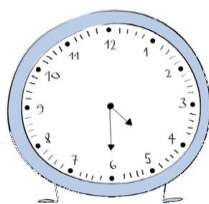
16. Napravite rečenice od ponuđenih riječi.

    utorak – Petar – ići – planina   _____

    Božić – ja – ići – posjet   _____

    vikend – vi – ići – more   _____

    subota – ja – ići – kupovina   _____

17. Koliko je sati?

_____   _____

_____   _____

18. Dopunite rečenice točnim oblikom -iti, -jeti > -im, -ati > -am glagola.

Što ti sada _____? (raditi)

Moja sestra izvrsno _____. (kuhati)

Oni _____ ići na večeru. (željeti)

Matija i Maja _____. (razgovarati)

Sandra _____ taksi. (čekati, neg.)

_____ li on na nastavu? (kasniti)

19. Što jedete i pijete za doručak, ručak i večeru?

Za doručak _____

_____

Za ručak _____

_____

Za večeru _____

_____

20. Pročitajte tekst i odgovorite na pitanja.

Paulini roditelji su iz Sarajeva, ali sada njezina obitelj živi u Kanadi. Paula ima 25 godina. Sada uči hrvatski na Croaticumu. Voli kuhati, plivati i svirati gitaru. Ima prijatelje u Zagrebu i Splitu. Njezini prijatelji su Hrvati, Nijemci i Čileanci. Oni vole tulume. Paula voli tulume i sportove: skijanje i rolanje. Voli filmove i glazbu.

Odakle su Paulini roditelji?   _____

Koliko godina ima Paula?   _____

Što uči na Croaticumu?   _____

Što ona svira?   _____

Koga ima u Zagrebu i Splitu? _____

Odakle su njezini prijatelji?   _____

Što oni vole?   _____

Što Paula voli?   _____

The range for each grade and passing threshold:	excellent (5) – 72-80 total points very good (4) – 63-71 total points good (3) – 53-62 total points sufficient (2) – 44-52 total points insufficient (1) – less than 44 total points, provided that the minimum number of points to achieve the learning outcomes for each task is achieved. Note: If the total number of points in the test changes, the minimum number of points warranted to achieve learning outcomes will also change.

Medical chemistry and biochemistry 1 MFMSE201

SAMPLE TEST OF WRITTEN EXAM

Course learning outcome code	Number of questions	Max. number of points on the questions/tasks	Min. number of points for achieving learning outcomes
IU-MFM201-1	7	20	10
IU-MFM201-2	6	15	7
IU-MFM201-3	5	20	10
IU-MFM201-4	13	35	18
IU-MFM201-5	2	4	2
IU-MFM201-6	3	6	3

IU-MFMSE201-1 (five multiple-choice questions with one correct answer (2 points x 5 = 10) + two questions to write a text answer (5 points x 2 = 10 points). The minimum number of points for achieving learning outcomes of the **IU-MFMSE201-1** code is 10.

IU-MFMSE201-2 (five multiple-choice questions with one correct answer (2 points x 5 = 10) + one question to write a text answer (5 points x 1 = 5 points). The minimum number of points for achieving learning outcomes of the **IU-MFMSE201-2** code is 7.

IU-MFMSE201-3 five calculation tasks (4 points x 5 = 20 points). The minimum number of points for achieving learning outcomes of the **IU-MFMSE201-3** code is 10.

IU-MFMSE201-4 (ten multiple-choice questions with one correct answer (2 points x 10 = 20) + three questions to write a text answer (5 points x 3 = 15 points). The minimum number of points for achieving learning outcomes of the **IU-MFMSE201-4** code is 18.

IU-MFMSE201-5 two questions to write a text answer (2 points x 2 = 4 points). The minimum number of points for achieving learning outcomes of the **IU-MFMSE201-5** code is 2.

IU-MFMSE201-6 (three questions to write a text answer – calculation of the results of chemical analysis (2 points x 3 = 6 points). The minimum number of points for achieving learning outcomes of the **IU-MFMSE201-6** code is 3.

The points range of the final grade:	excellent (5) – 91-100 very good (4) – 79-90 good (3) – 67-78 sufficient (2) – 55-66 insufficient (1) – less than 55 points, in case that the minimum number of points to achieve the learning outcomes for each task is achieved

Anatomy – MFMSE203

Sample test of written exam

Course learning outcome code	Total number of questions	Maximum number of points on questions	Minimum number of points on questions
IU-MFMSE203-1	25	25	12
IU-MFMSE203-2	25	25	13
IU-MFMSE203-3	50	50	25
IU-MFMSE203-4	50	50	25

The written exam consists of two partial exams (A1+A2)
A1 (fifty questions of multiple choice, each correct answer is awarded with one point**).**
For achieving IU-MFMSE203-1 min. of 12 points is needed.
For achieving IU-MFMSE203-2 min. of 13 points is needed.

The range for each grade and passing threshold:	excellent (5) – 45-50 total points very good (4) – 40-44 total points good (3) – 35-39 total points sufficient (2) – 30-34 total points insufficient (1) – less than 30 total points, provided that the minimum number of points to achieve the learning outcomes for each task is achieved.

A2 (one hundred questions of multiple choice, each correct answer is awarded with one point**).**
For achieving IU-MFMSE203-3 min. of 25 points is needed.
For achieving IU-MFMSE203-4 min. of 25 points is needed.

The range for each grade and passing threshold:	excellent (5) – 91-100 total points very good (4) – 79-90 total points good (3) – 67-78 total points sufficient (2) – 55-66 total points insufficient (1) – less than 55 total points, provided that the minimum number of points to achieve the learning outcomes for each task is achieved.

Subject: Anatomy
Concept of practical exam

Course learning outcome code	Name of the content unit	Number of questions related to the learning outcome	Min. numbers of correct answers for achieving the learning outcome
IU- MFMSE203-5 IU- MFMSE203-7 IU- MFMSE203-8	Anatomical structures of models; models can be plasticized human, plastic models as well as donor bodies.	25	18

The range for each grade and passing threshold:	excellent (5) – correct answer on each question very good (4) – 22-23 correct answers and minimum number of questions per unit good (3) – 20-21 correct answers and minimum number of questions per unit sufficient (2) – 18-19 correct answers and minimum number of questions per unit insufficient (1) – minimum number of questions per unit is not answered correctly.

Subject: Anatomy
Concept for oral exam

Course learning outcome code	Name of the content unit	Number of questions related to the learning outcome	Min. numbers of correct answers for achieving the learning outcome
IU- MFMSE203-2	a) somatic structures (skin, fascia, bones, joints, muscles...), b) visceral structures (solid and hollow organs), c) supply and control structures (vascular and nervous systems)	4	2
IU- MFMSE203-3	division of the human body into regions (separated by "anatomical boundaries"), content of these regions, anatomical structures (tissues and organs), common functional characteristics in (organic) systems	4	2
IU- MFMSE203-4	anatomy characteristics in specific clinical situations	2	1
IU- MFMSE203-5	projections of clinically relevant anatomical structures on a normal, living body, peculiarities of the function of each individual anatomical structures (for important movements, activities, reflexes...)	3	2
IU- MFMSE203-6	representations of anatomical structures using different radiological methods	3	1
IU- MFMSE203-7	representations of anatomical structures in cross-sections of the body in various heights and directions	3	1
IU- MFMSE203-8	parts of isolated and/or dissected body organs.	4	2

The range for each grade and passing threshold:	excellent (5) – correct answer on each question very good (4) – 18-20 correct answers and minimum number of questions per unit good (3) – 15-17 correct answers and minimum number of questions per unit sufficient (2) – 12 correct answers and minimum number of questions per unit insufficient (1) – minimum number of questions per unit is not answered correctly.

PAIN AND GENES – CUSTOM MADE PAIN TREATMENT MFMSEI01 - Medical studies in English

Course learning outcome code	Total number of questions	Maximum number of points on questions	Minimum number of points on questions
IU- MFMSEI-1	2	2	1
IU- MFMSEI-2	2	2	1
IU- MFMSEI-3	2	2	1
IU- MFMSEI-4	2	2	1
IU- MFMSEI-5	2	2	1

The written exam consists of 10 questions, for which student provides a textual answer.

Examples of questions:

Q1. What is neuropathic pain?
Q2. What is the name of complete insensitivity to pain? Describe what you know about the condition.
Q3. Explain what are the problems in "searching for genes for pain", in relation to research in some other areas, i.e. diseases.

The range for each grade and passing threshold:	The subject is considered passed for a student who has achieved at least 55% of the points provided that the minimum number of points to achieve the learning outcomes for each task is achieved. The grade is descriptive.

HOW TO CONSTRUCT YOUR OWN ORGAN MFMSEI02– Medical studies in English

Course learning outcome code	Total number of questions	Maximum number of points on questions	Minimum number of points on questions
IU- MFMSEI-1	2	2	1
IU- MFMSEI-2	2	2	1
IU- MFMSEI-3	2	2	1
IU- MFMSEI-4	2	2	1
IU- MFMSEI-5	2	2	1

The written exam consists of 10 questions, for which student provides a textual answer.

Examples of questions:

Q1. List the basic branches of biotechnology and their main differences.
Q2. Briefly explain the process of cell selection in tissue engineering.
Q3. List some potential ethical problems related to the implementation of medical devices (software and hardware) in the human body. For example, what is the difference between informed consent and a user agreement and the potential consequences for the patient?

The range for each grade and passing threshold:	The subject is considered passed for a student who has achieved at least 55% of the points provided that the minimum number of points to achieve the learning outcomes for each task is achieved. The grade is descriptive.