

SERVICE AGREEMENT No. _____

Klaipėda State University of Applied Sciences (higher education institution), legal entity code 111968056, registered office at Jaunystės g. 1, 91274 Klaipėda, represented by Director Dr. Remigijus Kinderis, hereinafter – the Client, and Joseph Grannum, hereinafter – the Service Provider, together referred to as the “Parties”, and individually – a “Party”, have concluded this agreement (hereinafter – the Agreement).

1. OBJECT OF THE AGREEMENT

1.1. The Service Provider undertakes to provide the Client with the services specified in Annex No. 1 to this Agreement (hereinafter – the Services). A detailed description of the Services and other requirements for the Services are set out in Annexes No. 1 and No. 2 to this Agreement.

1.2. The location of the theoretical lectures provided remotely shall be the “Microsoft Teams” platform provided by the Client or another platform chosen by the Service Provider (applicable if lectures are delivered remotely).

2. PRICE AND PAYMENT TERMS

2.1. The price and payment terms are set out in Annex No. 1 to the Agreement.

2.2. The service fee shall be transferred to the Service Provider’s account no later than within 30 calendar days from the date of signing the service delivery-acceptance act.

2.3. If the services are not provided or are only partially provided, the Service Provider must, within 10 (ten) calendar days of receipt of a written notice from the Client, return the full advance payment or part thereof (if it was paid), proportional to the unprovided services.

2. OBLIGATIONS OF THE PARTIES

3.1. The Service Provider shall prepare lecture materials: a summary of theory, assignments for independent and practical work assignments, and examination tasks. The teaching material must be prepared and submitted to the contract coordinator by the end of the Agreement’s validity.

3.2. The Service Provider must immediately inform the Client of any circumstances preventing the timely provision of the Services or any circumstances that would prevent participation in the lectures.

3.3. The Client shall ensure that the Service Provider has access to all necessary information and materials, in paper or electronic format, required to carry out the tasks specified in clause 1.1.

3.4. The proprietary rights to the prepared teaching and lecture materials shall be transferred to the Client upon their handover-acceptance, while the non-proprietary rights shall remain with the Service Provider.

3. OTHER PROVISIONS

4.1. The Parties agree that all disputes arising from this Agreement shall be resolved by negotiation. If a dispute cannot be resolved, it shall be finally settled by the court at the Client's registered office. This Agreement shall be governed by the laws of the Republic of Lithuania.

4.2. Neither Party may assign its rights or obligations under this Agreement to a third party without the prior written consent of the other Party.

4.3. This Agreement may be amended only by a written agreement of the Parties.

4.4. The Parties undertake to comply with environmental protection principles in the performance of this Agreement: all service-related documentation shall, as far as possible, be provided in electronic format. In exceptional cases, when required by law or reasonably justified by the Service Provider, documents may be provided in physical format. If documents are printed, recycled paper shall be used.

4.5. This Agreement may be signed with a qualified electronic signature or by exchanging signed and scanned copies of the Agreement by e-mail. Such copies shall have the same legal force as paper originals.

4.6. The Parties agree that this Agreement shall also apply to their relations arising prior to its conclusion.

4.7. The Client's representative responsible for contract supervision shall be the Head of the Department of Oral Care, Monika Balčytienė.

5. ANNEXES

- Annex No. 1 – Service description, price, and payment terms
- Annex No. 2 – Lecture topics and schedule
- Annex No. 3 – Service handover–acceptance certificate

6. DETAILS

| Client | Service Provider |
|--|------------------|
| Klaipėda State University of Applied Sciences Director Dr. Remigijus Kinderis Tel.: +37060583155 E-mail: info@kvk.lt Bank account No.: LT39 7300 0100 9625 8371 Bank: Swedbank Bank code: 73000 | Joseph Grannum |

Service description, price, and payment terms

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| Description of services | |
| Type of Service (lecturing, scientific article writing and/or other) | Lecture delivery |
| Lecture Topics | Oral Anatomy, Microbiology, and Histology (BH) Anatomy and Physiology (SL, BH, KT) (Lecture topics – Annex 1) |
| Duration of lectures | 5 months (September – January) |
| Number of lecture hours | 110 hours |
| Language of lectures | Anglų |
| Mode of lecture delivery | All lectures are conducted remotely |
| Dates and times of lectures | The lecture schedule has been approved and published on the KVK website. |
| Price/ Payment | |
| Price and Payment | The total cost of the lecture cycle is EUR 2,558.60. Payment for the services is made after the services have been provided. |
| Advance payment | - |
| | |
| Person Responsible for Contract Oversight | Head of the Department of Oral Care, Monika Balčytienė |

KLAIPĖDOS VALSTYBINĖ KOLEGIJA/HIGHER EDUCATION INSTITUTION**Faculty of Health Sciences****STUDY PROGRAMME: GENERAL PRACTICE NURSING****SUBJECT TITLE: ANATOMY AND PHYSIOLOGY****Subject purpose**

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| Providing students with knowledge on the human body, its individual organ systems and their function, innervation, vascularisation, needed for further studies and practice. |
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Annotation

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| The content of the subject is based on the principle of a consistent study of anatomy and physiology. After completing this subject, students will be able to explain the structure and functions of organs, organ systems, their location in the body, innervation, and developmental characteristics. |
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Compliance of the study methods and results of the subject, also student achievement evaluation methods with the results of the study programme

| Results of the study programme | Results of the subject | Study methods | Student achievement evaluation methods |
|---|--|---|---|
| 1. Integrating the knowledge of nursing, social and other sciences while providing research and practice-based individual, family and community nursing services. | 1.1. The ability to define the structure of organs, their systems, and functions. | Lecture, Demonstration of training videos, Working with models and atlases, Individual study of literature, <i>Moodle</i> environment. | Oral surveys, Testing, Presentations |
| | 1.2. The ability to explaining physiological processes that regulate the human body. | Lecture, Consultations, Demonstration of training videos, individual and group work | Oral surveys, Individual and group work presentation |

Subject content and scope

| Topic title and content |
|---|
| 1.Levels of structural organization of the human body. The plan of the human body. Human ontogeny. |
| 2.Cell. Cellular irritability. Morphological definition of tissues. <i>Practice:</i> Epithelial, connective, muscle, nervous tissues. <i>Individual assignment:</i> Preparation for testing according to questions provided. |
| 3.Musculoskeletal system. <i>Practice:</i> Group and individual work with models and atlases. <i>Individual assignment:</i> Preparation for testing according to questions provided. |
| 4.Nerve system. <i>Workshop.</i> Spinal cord and brain. Back nerves. Head nerves. <i>Independent work:</i> Analysis of head and back nerves in an atlas. |
| 5. Hormonal regulation of the body functions Practical and individual assignments: The impact of hormones on the body structure and functions. |
| 6. Neurofunctional systems. Somatosensory system. Practical and individual assignments: Sensory systems of sight, hearing, taste, smell, touch. |
| 7. Internal organs. <i>Practical and independent work:</i> Structure of digestive organs. Digestion. Structure of respiratory organs. Breathing. Urinary and genital system. Defecation. |
| 8. Nutrient and energy metabolism. Thermoregulation. <i>Practical and individual assignments: Energy metabolism.</i> Metabolism of proteins, fats, carbohydrates, water and minerals. Vitamins. |
| 9. Cardiovascular system. Lymphatic system. Practical and individual assignments: Structure and activity of the heart. Blood vessels of the systemic and pulmonary circulation. Physiology of blood circulation. Lymphatic system and its functions. |
| Preparation for the exam |
| Total number of hours |

Subject result evaluation criteria

| Subject study result No. | Subject result evaluation criteria |
|--------------------------|--|
| 1.1 | Recognizing, giving a consistent explanation and showing the bones, muscles, internal organs and their parts on the models, the ability to explain the functions, performed by organs and organ systems. Preparation and delivery of presentations based on demo assignments and methodological requirements. |
| 1.2 | The ability to provide a detailed explanation of the nervous and hormonal regulation of the body's functions, and the functions of the sensory organs. Preparation and delivery of presentations based on recommendations provided in groups or individually. |

| Cumulative evaluation of the study achievements |
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| <p>The cumulative evaluation (final grade) of the subject (module) consists of the sum of interim evaluations, multiplied from the appropriate weighting factors:</p> <p>CE = 0.5T + 0,5E</p> <p>CE – cumulative evaluation;</p> <p>FT – average evaluation of the following tests: Morphological definition of tissues and musculoskeletal system; Internal organ, cardiovascular, lymphatic systems; Nervous system, sensory organs, endocrine glands;</p> <p>E – exam evaluation</p> |

KLAIPĖDOS VALSTYBINĖ KOLEGIJA/HIGHER EDUCATION INSTITUTION

Faculty of Health Sciences

STUDY PROGRAMME: PHYSIOTHERAPY, 6531GX006

SUBJECT TITLE: ANATOMY AND PHYSIOLOGY I

Subject purpose

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| The aim of the subject is to provide knowledge about the structure and development of the human body and processes of physiological regulation. |
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Annotation

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| During their studies, students will become familiar with the terminology of anatomy and histology, will learn to describe cells and tissues, learn the systems of human bones, joints, muscles, internal organs, heart and blood vessels, nerves and sensory organs, will find out about the structure of the organs, the connection of organs, blood vessels and nerves in various in parts of the body, learn to describe the physiological processes that regulate the human body, define the connections between the functions of organs and organ systems, analyse the vital functions, learn to explain the functions of the digestive, respiratory, excretory organs, the properties and functions of blood, the activity of the heart and the characteristics of blood circulation, sensory systems, and nervous and hormonal regulation of the body functions. |
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Compliance of the study methods and results of the subject, also student achievement evaluation methods with the results of the study programme

| Results of the study programme | Results of the subject | Study methods | Student achievement evaluation methods |
|--|---|---|---|
| 1.1. Able to organize and conduct a physiotherapy examination of a person, collect and critically evaluate information related to the patient's needs. | 1.1.2. Can list the axes and planes of the human body. | Lecture, training films, slides, schemes, individual literature studies, learning in the e-environment. | Written assignments Presentation and delivery of individual assignments |
| | 1.1.3. Identifies a cell, microscopic tissue structure and its major functions. | Lecture, training films, slides, schemes, individual work with models, atlases, individual literature studies, learning in the e-environment. | Written assignments Presentation and delivery of individual assignments |
| | 1.1.4. Can define a skeleton, joint structure and their functions. Can identify the structure of the skeleton of the skull, torso and limbs, interosseous joints. Can construct simple and complex clinical and anatomical terms using basic Latin grammar rules. | Lecture, training films, slides, drawings, individual work with models, atlases, individual literature studies, individual assignments, learning in the e-environment | Written assignments Presentation and delivery of individual assignments |
| | 1.1.5. Can classify muscles based on form, function, and structure. Can identify muscles of individual parts of the body, the beginning and end of attachment, their functions, innervation. Can construct simple and complex clinical and anatomical terms using basic Latin grammar rules. | Lecture, training films, slides, drawings, individual work with models, atlases, individual literature studies, individual assignments, learning in the e-environment | Written assignments Presentation and delivery of individual assignments Demonstration |
| | 1.1.6. Can describe the structure and topography of the nervous system, sensory, internal, cardiac and circulatory organs. | Lecture, training films, slides, drawings, individual work with models, atlases, individual literature studies, individual assignments, learning in the e-environment. | Written assignments Demonstration Presentation and delivery of individual assignments |
| | 1.1.7. Can define the physiological processes that carry out regulation in the human body. | Lecture, training films, individual assignment, individual literature studies, learning in the e-environment. | Written assignments Presentation and delivery of individual assignments |

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| | 1.1.8. Can relate the functions of organs and their systems by analysing vital functions of the human body. | Lecture, training films, individual assignments, individual literature studies, learning in the e-environment. | Written assignments Presentation and delivery of individual assignments |
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Subject content and scope

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| Topic title and content |
| 1.Levels of structural organization of the human body. The plan of the human body. Human ontogeny. |
| 2.Cell. Cellular irritability. Morphological definition of tissues. <i>Practice:</i> Epithelial, connective, muscle, nervous tissues. <i>Individual assignment:</i> Preparation for testing according to questions provided. |
| 3.Musculoskeletal system. <i>Practice:</i> Group and individual work with models and atlases. <i>Individual assignment:</i> Preparation for testing according to questions provided. |
| 4.Nerve system. <i>Workshop.</i> Spinal cord and brain. Back nerves. Head nerves. <i>Independent work:</i> Analysis of head and back nerves in an atlas. |
| 5. Hormonal regulation of the body functions Practical and individual assignments: The impact of hormones on the body structure and functions. |
| 6. Neurofunctional systems. Somatosensory system. Practical and individual assignments: Sensory systems of sight, hearing, taste, smell, touch. |
| 7. Internal organs. <i>Practical and independent work:</i> Structure of digestive organs. Digestion. Structure of respiratory organs. Breathing. Urinary and genital system. Defecation. |
| 8. Nutrient and energy metabolism. Thermoregulation. <i>Practical and individual assignments:</i> <i>Energy metabolism.</i> Metabolism of proteins, fats, carbohydrates, water and minerals. Vitamins. |
| 9. Cardiovascular system. Lymphatic system. |

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| Practical and individual assignments: Structure and activity of the heart. Blood vessels of the systemic and pulmonary circulation. Physiology of blood circulation. Lymphatic system and its functions. |
| Preparation for the exam |
| Total number of hours |

Subject result evaluation criteria

| Subject study result No. | Subject result evaluation criteria |
|---------------------------------|---|
| 1.1.1. | Correct use of the indicative Lithuanian and Latin terminology. |
| 1.1.2. | Can describe the axes and planes of the human body. Understands and uses appropriate terms. |
| 1.1.3. | Can describe the cell, the microscopic structure and basic functions of tissues. Can recognise and identify tissues. |
| 1.1.4. | Can describe the skeleton, the bone tissue and knows their functions. Knows the structure of the skull, torso and limbs, the bony parts and interosseous connections. Can identify joints and describe their structure and functions. Can construct simple and complex clinical and anatomical terms using basic Latin grammar rules. |
| 1.1.5. | Can classify and identify muscles based on their form, functions, and structure. Knows the beginning and end of muscle attachment in individual parts of the body, their functions, innervation. Can construct simple and complex clinical and anatomical terms using basic Latin grammar rules. |
| 1.1.6. | Knows the structure and topography of the nervous system, sensory, internal, cardiac and circulatory organs. Can describe the nervous system, identify parts of the CNS, peripheral nerves. Can identify the internal organs, ducts, and blood vessels. |
| 1.1.7. | Can define physiological processes that regulate the human body. |
| 1.1.8. | Can relate the functions of organs and organ systems, analysing the vital functions of the human body. |

| Cumulative evaluation of the study achievements |
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| <p>A ten-point criterion-referenced evaluation system and cumulative evaluation.</p> $CE = 0.5X_1 + 0.5X_2$ <p>CE – cumulative evaluation; X₁ – average evaluation of the four interim written tests;</p> <p>During the first interim test, students must correctly list the axes and planes of the human body, identify the cell, cell excitability, signal transmission, microscopic structure and main functions of tissues, and describe skeletons and their functions. They must also identify the structure of the skull, torso and ligament bones.</p> <p>During the second interim test, students must correctly define the interosseous connections, the structure and functions of the joints, classify muscles based on their shape, functions and structure, also define their functions.</p> <p>During the third interim test, students must correctly identify the structural parts and topographic points of the nervous system. They must also define and analyse the physiology of the nervous system.</p> |

During the fourth interim test, students must correctly list the anatomic structures of the sensory organs and analyse the physiological processes of the sensory system.

X₂ – exam evaluation.

KLAIPĖDOS VALSTYBINĖ KOLEGIJA/HIGHER EDUCATION INSTITUTION
Faculty of Health Sciences

STUDY PROGRAMME: DENTAL HYGIENE

SUBJECT TITLE: GENERAL ANATOMY AND PHYSIOLOGY

Subject purpose

To acquire the knowledge about the structure of the human body, its separate organ systems and their functions, needed in further studies and practice.

Annotation

The purpose of the subject is to develop student abilities to assess the patient's mouth and general health. Upon mastering the subject, students will be able to explain the structure, location and functions of tissues, organs, organ systems, describe the physiological processes that carry out the regulation in the human body. During the studies, students will examine various systems of human organs in terms of structure and function.

Compliance of the outcome of the study programme, the outcome of the subject, study methods, and student achievement evaluation methods

| Study programme results | Subject results | Study methods | Student achievement evaluation methods |
|--|---|---|--|
| 2. Integrates the knowledge of biomedical sciences in recognizing dental diseases and their causes and factors affecting the health condition of a person. | 2.1 Describes the structure, location and functions of tissues, organs, and organ systems | Interactive lecture Training film viewing and analysis Individual work with models and atlases Group work Individual literature studies | Test Presentation of group assignments |
| | 2. 2 Explains the physiological processes that regulate the human body | Interactive lecture Training film viewing and analysis Individual work with models and atlases Group work Discussions | Test Presentation of group assignments Self-reflection |

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| | | Individual literature studies | |
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Subject content and scope

| Topic title and content |
|---|
| 1.Levels of structural organization of the human body. The plan of the human body. Human ontogeny. |
| 2.Cell. Cellular irritability. Morphological definition of tissues. <i>Practice:</i> Epithelial, connective, muscle, nervous tissues. <i>Individual assignment:</i> Preparation for testing according to questions provided. |
| 3.Musculoskeletal system. <i>Practice:</i> Group and individual work with models and atlases. <i>Individual assignment:</i> Preparation for testing according to questions provided. |
| 4.Nerve system. <i>Workshop.</i> Spinal cord and brain. Back nerves. Head nerves. <i>Independent work:</i> Analysis of head and back nerves in an atlas. |
| 5. Hormonal regulation of the body functions Practical and individual assignments: The impact of hormones on the body structure and functions. |
| 6. Neurofunctional systems. Somatosensory system. Practical and individual assignments: Sensory systems of sight, hearing, taste, smell, touch. |
| 7. Internal organs. <i>Practical and independent work:</i> Structure of digestive organs. Digestion. Structure of respiratory organs. Breathing. Urinary and genital system. Defecation. |
| 8. Nutrient and energy metabolism. Thermoregulation. <i>Practical and individual assignments:</i> <i>Energy metabolism.</i> Metabolism of proteins, fats, carbohydrates, water and minerals. Vitamins. |
| 9. Cardiovascular system. Lymphatic system. Practical and individual assignments: Structure and activity of the heart. Blood vessels of the systemic and pulmonary circulation. Physiology of blood circulation. Lymphatic system and its functions. |

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| Preparation for the exam |
| Total number of hours |

Subject result evaluation criteria

| Subject result No. | Subject result evaluation criteria |
|---------------------------|--|
| 2.1 | Describes the structure, location and functions of tissues, organs, organ systems. |
| 2.2 | Explains the physiological processes that carry out regulation in the human body. |

| Cumulative evaluation of the study achievements |
|---|
| <p>The cumulative evaluation (final grade) of the subject (module) consists of the sum of interim evaluations, multiplied from the appropriate weighting factors:</p> $CE = 0.25 \cdot X_1 + 0.25 \cdot X_2 + 0.5 \cdot X_3$ <p>CE – cumulative (final) evaluation; X₁ – first interim test evaluation (the test consists of open and/or closed questions) X₂ – second interim test evaluation (the test consists of open and/or closed questions) X₃ – exam evaluation</p> |

Oral anatomy, microbiology and histology

STUDY PROGRAMME: DENTAL HYGIENE

SUBJECT TITLE: ORAL ANATOMY, MICROBIOLOGY AND HISTOLOGY

Subject purpose

Form students' understanding of the development of oral organs, anatomical structure, tissues and cells, which will help them acquire competence in differentiating healthy and damaged oral tissues.

Annotation

The purpose of the subject is to develop students abilities to list the organs of the mouth, to explain the differences in oral tissues that determine the reaction to external impact. This subject is designed to develop the ability to list and explain the role of oral microflora in preserving health and the development of diseases.

Compliance of the outcome of the study programme, the outcome of the subject, study methods, and student achievement evaluation methods

| Study programme results | Subject results | Study methods | Student achievement evaluation methods |
|--|---|--|--|
| 2. Integrates knowledge of biomedical sciences, diagnosing dental diseases, their reasons and factors affecting a person's health condition. | 2.1. Describes the facial bones that form the oral cavity. | Analysis of visual material (illustrations and anatomical models). | Test. |
| | 2.2. Lists mastication muscles, their functions and describes the mimicry muscles. | Using smart applications (e.g. 3D Google Chrome) Lecture Analysis of anatomic models | Test. |
| | 2.3. Explains the blood flow and innervation of the oral organs. | Analysis of visual material (illustrations and anatomical models). Case analysis | Test. |
| | 2.4 Describes the normal microflora of the mouth, explains its importance in the maintenance of dental health | Analysis of video material on educational platforms Discussion | Oral surveys. |
| | 2.5 Describes the pathological microflora of the mouth and explains its impact on the development of diseases | | |
| | 2.6. Explains the normal and impaired development of oral organs (teeth) in terms of anatomy and histology | Analysis of video material on educational platforms Discussion | Questioning |
| | 2. Defines the topography and functions of the salivary glands. | Teamwork | Test |
| | 2.8. Describes the structure and functions of the temporomandibular joint | | Self-reflection |
| | 2.9. Describes the anatomical parts, forms and histological structures of the tooth and surrounding tissues, their functions. | | |
| | 2.10. Explains the mechanism of dental pulp and periodontal tissue reactions to stimuli. | | |

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| | 2.11. Can explain the concepts of 'tooth surface' and 'tooth formula'. | | |
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Subject content and scope

| Topic title and content definition |
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| <p>1. Development of the body organs. Standard and pathology</p> <p><i>Practical assignments:</i> Analysis of visual material (illustrations and anatomic models). Case analysis</p> <p><i>Individual assignment:</i> preparation for a test</p> |
| <p>2. Oral organs and tissues, anatomical and histological structure</p> <p><i>Practical assignments:</i> Using smart applications (e.g. 3D Google Chrome)</p> <p><i>Individual assignment:</i> preparation for a test</p> |
| <p>3. Normal oral microflora, its importance for oral health</p> <p><i>Practical assignments:</i> Analysis of video material on educational platforms</p> <p><i>Individual assignment:</i> preparation for a test</p> |
| <p>4. Pathological oral microflora, its impact on the development of oral diseases</p> <p><i>Practical assignments:</i> Analysis of video material on educational platforms. Discussion.</p> |
| Preparation for the exam |
| Total number of hours |

Subject result evaluation criteria

| Subject result No. | Subject result evaluation criteria |
|---------------------------|---|
| 2.1. | Describes the facial bones forming the oral cavity. |
| 2.2. | Lists mastication muscles, their functions and describes the mimicry muscles. |
| 2.3. | Explains the blood flow and innervation of the oral organs. |

SERVICE DELIVERY–ACCEPTANCE ACT No.

Klaipėda, ____ m. ____ mėn. ____ d.

Klaipėda State University of Applied Sciences (the Client) and Joseph Grannum (the Service Provider), having concluded Agreement No. _____ for the provision of lecturing services, confirm that the Services have been properly provided and the Client has no claims against the Service Provider.

The amount payable for the provided services is _____ EUR

Signatures of the Parties:

Client

Klaipėda State University of
Applied Sciences
Director Dr. Remigijus Kinderis

Date: _____

Service Provider

Joseph Grannum

Date: _____