

FACULTY OF PHYSICAL EDUCATION AND SPORTS
SPORTS MEDICINE AND PHYSIOTHERAPY DEPARTMENT
COURSES LIST

- **Master's Degree**

Field: ***Physiotherapy***

Programme title: ***Physiotherapy in Neuromotor Rehabilitation***

- **1st year**

COURSE TITLE	FUNCTIONAL ANATOMY OF THE NEUROMYOARTHROKINETIC SYSTEM
CODE	D06KRN101
ECTS CREDITS	4
COURSE OBJECTIVE(S)	Assimilation of basic anatomical knowledge, necessary for analyzing human movement in a complex manner, exploiting the interdisciplinary field of anatomy, biomechanics and imaging. Study of the movement of the performing human, with the possibilities of increasing motor performance in particular. Study of the movement of the disabled with the possibilities of reducing disability.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	EVALUATION AND RECOVERY METHODS OF THE NEUROMYOARTHROKINETIC SYSTEM
CODE	D06KRN102
ECTS CREDITS	5
COURSE OBJECTIVE(S)	Presentation of the basic principles and methods used in physiotherapy. Theoretical and practical training related to the way of approaching the patient, establishing the general objectives of recovery, indications and contraindications of each kinetic method.

	Knowledge of functional assessment scales, knowledge of the indications for applying specific tests in neuromotor assessment.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	PHYSIOLOGY OF THE NEUROMYOARTHROKINETIC SYSTEM
CODE	D06KRN103
ECTS CREDITS	4
COURSE OBJECTIVE(S)	Knowledge of the etiopathogenic mechanisms of central and peripheral nervous system diseases. Establishing and knowing the relationships that exist between the physiopathological mechanism of these diseases and the functional potential that can be exploited, within the functional remainder, for recovery. Presentation and acquisition of the physiopathological bases that allow the recuperator to establish the kinetic objectives of recovery.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	PHYSICAL TECHNIQUES AND METHODS IN RECOVERY
CODE	D06KRN104
ECTS CREDITS	3
COURSE OBJECTIVE(S)	Knowledge of the etiopathogenic mechanisms of diseases of the central and peripheral nervous system. Establishing and knowing the relationships that exist between the physiopathological mechanism of these diseases and the functional potential that can be exploited, within the functional remainder, for recovery. Presentation and mastering the physiopathological bases that allow the

	recuperator to establish the kinetic objectives of recovery. Knowledge, understanding of the concepts, theories and basic methods of working techniques with physical treatment agents, indications and contraindications in various diseases; their appropriate use in professional communication. Knowledge of the methodology and parameters for applying physical treatment agents, applying medical prescriptions to patients with various neurological and locomotor diseases.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	SPECIAL MASSAGE TECHNIQUES
CODE	D06KRN105
ECTS CREDITS	3
COURSE OBJECTIVE(S)	The course aims to contribute to the knowledge of the theoretical bases that scientifically substantiate the usefulness of using complementary massage techniques and the effects that can be obtained through its application in various musculo-tendinous, capsulo-ligamentous or circulatory pathologies.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	FUNCTIONAL RECOVERY AND KINETOPROPHYLAXIS IN SPORTS PATHOLOGY
CODE	D06KRN106
ECTS CREDITS	4
COURSE OBJECTIVE(S)	Acquiring and consolidating theoretical and practical knowledge specific to kinesiotherapy in the recovery of sports injuries sustained by athletes in team or club sports activities.
LANGUAGE OF INSTRUCTION	Romanian

INSTRUCTION	
ASSESSMENT METHOD(S)	Exam
COURSE TITLE	ETHICS AND ACADEMIC INTEGRITY
CODE	D06KRN107
ECTS CREDITS	3
COURSE OBJECTIVE(S)	Possibilities of knowledge of the concepts of ethics and academic integrity, moral and professional conduct. Knowledge of the methods and means of assessing ethical principles and academic integrity. Knowledge of the methods of identifying issues with ethical implications, resolving them, understanding, respecting and implementing ethical and professional integrity requirements.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	OCCUPATIONAL THERAPY
CODE	D06KRN108
ECTS CREDITS	2
COURSE OBJECTIVE(S)	
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	

COURSE TITLE	FOREIGN LANGUAGE I
CODE	D06KRN109
ECTS CREDITS	3
COURSE OBJECTIVE(S)	This course proposes learning basic grammar, acquiring medical terminology, specific to physiotherapy; Specialized translations.
LANGUAGE OF INSTRUCTION	English
ASSESSMENT METHOD(S)	C

COURSE TITLE	CLINICAL INTERNSHIP I
CODE	D06KRN110
ECTS CREDITS	4
COURSE OBJECTIVE(S)	Students' participation in the evaluation

	of children with neuromotor deficiencies of various causes. Development of recovery programs and practical application of theoretical knowledge related to the recovery through kinetic means of children with central motor disabilities, muscular dystrophies, etc. Development of protocols for the evaluation of neurological patients or those with post-traumatic sequelae, rheumatic diseases. Development of recovery protocols - formulation of short and long-term goals.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	BIOMECHANICS OF THE LOCOMOTOR SYSTEM
CODE	D06KRN201
ECTS CREDITS	5
COURSE OBJECTIVE(S)	Kinematic analysis of the structures of the locomotor system. Knowledge of the anatomical-functional correspondences of the locomotor system. Approaching and understanding the mechanisms of postural and segmental recovery, establishing the algorithm for kinetic analysis of the positions and movements of the human body, applying the notions of biomechanics in structuring the kinetic program.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	ANALYSIS OF NORMAL AND PATHOLOGICAL MOVEMENT
CODE	D06KRN202
ECTS CREDITS	5
COURSE OBJECTIVE(S)	The student's acquisition and substantiation of the theoretical and practical basis regarding the biomechanical aspects of human movement and kinetic and kinematic

	analysis techniques. To demonstrate understanding of the applicability of the basic principles of mechanics in sports and other human activities involving movement.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	PATHOPHYSIOLOGY OF THE NEUROMYOARTHROKINETIC SYSTEM
CODE	D06KRN203
ECTS CREDITS	5
COURSE OBJECTIVE(S)	Knowledge of the etiopathogenic mechanisms of diseases of the central and peripheral nervous system. Establishing and knowing the relationships that exist between the physiopathological mechanism of these diseases and the functional potential that can be exploited, within the functional remainder, for recovery.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	PHARMACOLOGICAL AND PHYSICAL THERAPY IN PAIN
CODE	D06KRN204
ECTS CREDITS	5
COURSE OBJECTIVE(S)	Acquiring theoretical principles related to general pharmacology and medication of various organs and systems of the human body. Knowing the indications and contraindications for the application of common analgesics and electrotherapy methods.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	BALANCE ASSESSMENT AND TRAINING TECHNIQUES
CODE	D06KRN205
ECTS CREDITS	5
COURSE OBJECTIVE(S)	This course proposes the study of complex balance assessment and balance reeducation methods, based on specific kinetic techniques. During the course, students will acquire theoretical and practical knowledge about how to approach patients with balance disorders whose etiology is extremely diverse.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	PSYCHOTHERAPY IN NEUROLOGICAL DISEASES
CODE	D06KRN206
ECTS CREDITS	5
COURSE OBJECTIVE(S)	Presentation of the principles and methods of evaluation in psychotherapy, the methodology for approaching neurological patients with psycho-affective syndromes. The possibility of drawing up a recovery program in which psychotherapy is an important element that facilitates the implementation of kinetic techniques.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	SENSORY STIMULATION METHODS
CODE	D06KRN207
ECTS CREDITS	2
COURSE OBJECTIVE(S)	Acquiring a knowledge base regarding the application of physiotherapy / sensory and psychomotor education in special education. Familiarization and acquisition of specialized terminology. Acquiring how to create personalized intervention plans, programs, lessons.

	Accumulation of knowledge and skills necessary for the creation of recovery programs.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	C

COURSE TITLE	BIOCHEMISTRY
CODE	D06KRN208
ECTS CREDITS	3
COURSE OBJECTIVE(S)	Familiarizing students with the main concepts of medical biochemistry, with the laboratory techniques of biochemistry used in medical practice and in medical scientific research. Acquiring knowledge about structural and metabolic biochemistry about the four classes of biomolecules: carbohydrates, lipids, proteins, nucleic acids that participate in the construction of life. Acquiring theoretical and practical knowledge about metabolic processes that represent the cornerstone of the syntheses of living matter entities. Acquiring practical information that will allow students to apply them in the various situations they will encounter in the professional field of physiotherapy that they will choose.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	C

COURSE TITLE	CLINICAL INTERNSHIP II
CODE	D06KRN209
ECTS CREDITS	5
COURSE OBJECTIVE(S)	Student participation in the evaluation of children with neuromotor deficiencies of various causes. Development of recovery programs and practical application of theoretical knowledge related to the recovery through kinetic means of children with central motor disabilities, muscular dystrophies,

	etc.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	FOREIGN LANGUAGE II
CODE	D06KRN210
ECTS CREDITS	3
COURSE OBJECTIVE(S)	This course proposes learning basic grammar, acquiring medical terminology, specific to physiotherapy; Specialized translations.
LANGUAGE OF INSTRUCTION	English
ASSESSMENT METHOD(S)	C

COURSE TITLE	POST COVID-19 RECOVERY
CODE	D06KRN211
ECTS CREDITS	
COURSE OBJECTIVE(S)	
LANGUAGE OF INSTRUCTION	
ASSESSMENT METHOD(S)	

- 2nd year

COURSE TITLE	POSTURAL AND LOCOMOTOR MECHANISMS
CODE	D06KRN301
ECTS CREDITS	4
COURSE OBJECTIVE(S)	The course aims to identify the specific elements of body alignment, present methods for assessing body posture and methods for correcting it. Also, through its content, this course provides information about the basic principles of recovery programs whose main objective is to restore body alignment and locomotion.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	DYSMORPHISMS OF THE MUSCULOSKELETAL SYSTEM
CODE	D06KRN302
ECTS CREDITS	5
COURSE OBJECTIVE(S)	Knowledge of the morphological and functional characteristics of the spine in children at each stage of development; Studying spinal deformities and deviations; Mastering the methodology for evaluating and correcting spinal deformities and deviations. Identifying the type of dysmorphism of the locomotor system; Specific evaluation; Developing a kinetic intervention program.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	PATHOLOGY OF THE CENTRAL AND PERIPHERAL NERVOUS SYSTEM
CODE	D06KRN303
ECTS CREDITS	5

COURSE OBJECTIVE(S)	Presentation of the pathology of the central nervous system, clinical aspects, objectives, principles and means of recovery. Students' acquisition of the method of evaluating a patient with CNS lesions, establishing recovery objectives and choosing kinetic recovery methods. Review and acquisition of knowledge related to the pathology of the peripheral nervous system, the objectives and means of recovery specific to this pathology. Application of the basic kinetic methods and techniques previously acquired in the treatment of peripheral nervous system diseases. Establishing the algorithm for evaluating the patient, establishing the objectives and kinetic means that will be applied.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	OPTIONAL 1 - KINETOTHERAPY IN METABOLIC AND NUTRITIONAL DISEASES
CODE	D06KRN304
ECTS CREDITS	5
COURSE OBJECTIVE(S)	Knowledge of the fundamental aspects of the functional anatomy and physiopathology of the main human endocrine glands, deepening by the future physiotherapist of the therapeutic principles, recovery objectives and physical-kinetic means that can be applied in the complex treatment of endocrinological diseases, with particular emphasis on diabetic pathology and osteoporosis.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	OPTIONAL 1 - KINETOTHERAPY IN VENTILATORY DYSFUNCTIONS
CODE	D06KRN305
ECTS CREDITS	4
COURSE OBJECTIVE(S)	Knowledge of the etio-pathogenic mechanisms, clinical and paraclinical manifestations specific to each type of respiratory dysfunction and the pathology included. Knowledge of the theoretical principles and practical methods for the creation, application and monitoring of physiotherapy programs specific to different types of respiratory dysfunction.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	MYOFASCIAL MASSAGE TECHNIQUES; REFLEXOLOGY
CODE	D06KRN306
ECTS CREDITS	5
COURSE OBJECTIVE(S)	The course aims to contribute to the knowledge of the theoretical bases that scientifically substantiate the usefulness of using complementary massage techniques and the effects that can be obtained through its application in various musculo-tendinous, capsulo-ligamentous or circulatory pathologies.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	RECOVERY METHODS IN NEUROPSYCHIATRIC DISEASES IN CHILDREN
CODE	D06KRN307
ECTS CREDITS	5
COURSE OBJECTIVE(S)	Knowledge of the fundamental aspects of the child's neuropsychiatric development, understanding of concepts, deepening of functional assessment methods, therapeutic theories and principles,

	recovery objectives and physical-kinetic means that can be applied in the complex treatment of pediatric neuropsychiatric disorders. Knowledge of the methodology and parameters for applying rehabilitation techniques, applying medical prescription to children with various neurological and psychiatric disorders.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	CLINICAL INTERNSHIP III
CODE	D06KRN308
ECTS CREDITS	2
COURSE OBJECTIVE(S)	Student participation in the evaluation of children with neuromotor deficiencies of various causes. Development of recovery programs and practical application of theoretical knowledge related to the recovery through kinetic means of children with central motor disabilities, muscular dystrophies, etc. Development of protocols for the evaluation of neurological patients or those with post-traumatic sequelae, rheumatic diseases. Development of recovery protocols - formulation of short and long-term goals.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	RECOVERY IN UROGENITAL DISEASES
CODE	D06KRN401
ECTS CREDITS	3
COURSE OBJECTIVE(S)	Knowledge of the fundamental theoretical and practical aspects of diagnosis and physical-kinetic therapy in diseases of the kidney, urinary tract, female genital tract, labor, pre- and postpartum. Knowledge of the methodology and parameters for applying

	rehabilitation techniques, applying medical prescription to patients with urogenital dysfunctions, in the pre- and postpartum periods.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	PHYSICAL EXERCISE IN THE TREATMENT AND PREVENTION OF THE AGING PROCESS
CODE	D06KRN402
ECTS CREDITS	3
COURSE OBJECTIVE(S)	Knowledge of the particularities of the elderly in view of the application of physiotherapy to this age group. Knowledge of the assessment scales that use aging markers to assess the elderly. Knowledge of the indications and contraindications of physiotherapy and physical exercise in the elderly.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	RECOVERY IN SPECIFIC POST-TRAUMATIC PATHOLOGY
CODE	D06KRN403
ECTS CREDITS	4
COURSE OBJECTIVE(S)	The course aims to enrich and complete the knowledge related to the recovery of the locomotor system that has suffered trauma resulting in significant musculoskeletal sequelae. This course will cover the specific post-traumatic sequelae pathology of the locomotor system. Establishing the patient evaluation algorithm. Establishing the objectives and kinetic means that will be applied.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	PLYOMETRICS
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CODE	D06KRN404
ECTS CREDITS	3
COURSE OBJECTIVE(S)	Training and acquisition by the master's student of basic knowledge regarding the characteristics, peculiarities, advantages and disadvantages of the plyometric regimen. Theoretical and practical knowledge of plyometric exercises used in kinetic recovery and sports training.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	DANCE THERAPY
CODE	D06KRN405
ECTS CREDITS	3
COURSE OBJECTIVE(S)	Theoretical and practical training related to the way of approaching the patient, establishing the general objectives of the therapy, the indications and contraindications of each kinetic method. Knowledge of the indications for applying specific tests in neuromotor evaluation.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	APPLIED HYDROKINETOTHERAPY
CODE	D06KRN406
ECTS CREDITS	3
COURSE OBJECTIVE(S)	Training and acquisition by the master's student of basic knowledge. Theoretical and practical knowledge of the exercises used in kinetic recovery and sports training. Developing the master's student's ability to adapt, therefore correctly individualize, the exercises needed for each patient or athlete, depending on the condition or trauma suffered and the performance sport practiced, in order to achieve the best and fastest kinetic recovery.

LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	CLINICAL INTERNSHIP IV
CODE	D06KRN407
ECTS CREDITS	2
COURSE OBJECTIVE(S)	The concrete participation of the trainees in the evaluation of neurological patients in the neurological recovery sections, then establishing the objectives of the kinetic recovery program and its application. Then the periodic evaluation established together with the attending physician. Development of protocols for the evaluation of neurological patients or those with post-traumatic sequelae, rheumatic diseases. Development of recovery protocols - formulation of short and long-term objectives.
LANGUAGE OF INSTRUCTION	Romanian
ASSESSMENT METHOD(S)	Exam

COURSE TITLE	ELABORATION OF THE DISSERTATION
CODE	D06KRN408
ECTS CREDITS	10
COURSE OBJECTIVE(S)	
LANGUAGE OF INSTRUCTION	
ASSESSMENT METHOD(S)	

COURSE TITLE	DISSERTATION EXAM
CODE	D06KRN409
ECTS CREDITS	10
COURSE OBJECTIVE(S)	
LANGUAGE OF INSTRUCTION	
ASSESSMENT METHOD(S)	

COURSE TITLE	PAIN MANAGEMENT
CODE	D06KRN410
ECTS CREDITS	2
COURSE OBJECTIVE(S)	
LANGUAGE OF INSTRUCTION	
ASSESSMENT METHOD(S)	