**description of the course of study**

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| **Course code** | **0912-7LEK-C5.1-P** | |
| **Name of the course in** | Polish | **Pediatria** |
| English | **Pediatrics** |

1. **LOCATION OF THE course OF STUDY within the system of studies**

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| **1.1. Field of study** | Medical |
| **1.2. Mode of study** | Full-time |
| **1.3. Level of study** | Uniform Master’s studies |
| **1.4. Profile of study\*** | General academic |
| **1.5. Person preparing the course description** | dr hab. med. Mieczysław Szalecki , prof. UJK |
| **1.6. Contact** | mszalecki@wp.pl |

1. **General characteristicS of the course of study**

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| **2.1. Language of instruction** | English |
| **2.2. Prerequisites\*** | Knowledge of topographic and functional human anatomy as well as knowledge of neuroanatomy, physiology and pathophysiology of the child |

1. **DETAILED CHARACTERISTICS OF THE COURSE OF STUDY**

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| * 1. **Form of classes** | | LECTURE: 75 (including 6 hours of e-learning), CLASSES– 75, PRACTICAL CLASSES-115 |
| * 1. **Place of classes** | | Lecture – Courses in the teaching rooms of UJK  Classes and tutorials- Department of Clinical Pediatrics |
| * 1. **Form of assessment** | | lectures – final oral and written exam  classes, tutorials- credit with grade that includes : students abilities, attendance during classes, partial-test evaluation |
| * 1. **Teaching methods** | | Lecture with multimedia presentation, practical classes at the bedside of the patient, practical tutorials |
| * 1. **Bibliography** | **Required reading** | 1. Nelson Essentials of Pediatrics, 7th Edition: Karen Marcdante, MD and Robert M. Kliegman, MD. W.B. Saunders Company 2. Paediatric Physical Examination made easy by D.Gill, N O’Brien, last edition. |
| **Further reading** | 1. Nelson Textbook of Pediatrics, Vol 1 & 2, 20th Edition, Authors: Robert M. Kliegman & Bonita M.D. Stanton & Joseph St. Geme & Nina F Schor. 2. Ilustrated Textbook of Paediatrics, Edited by T. Lissauer, G. Clayden, 2011 |

1. **Objectives, syllabus CONTENT and intended teaching outcomes**

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| * 1. **Course objectives *(lecture, classes)*** * The primary goal of the clinical course is to know the theoretical basis and practical skills in the diagnosis and   therapy of diseases in paediatrics and secondary symptoms. Obtaining information on the specificity and  separateness of the pathophysiology and the clinic for the course of diseases in children and adolescents.   * Appropriate techniques of careful medical history taking and physical examination in children as well as   adolescents.   * Mastering the basics of interpretation of additional tests in children. |

* 1. **Detailed syllabus *(lecture, classes)***

| Semester | Section | Subject | Number of hours | Form |
| --- | --- | --- | --- | --- |
| 5 | Allergology | Anaphylaxis in children, causes and procedures | 2 | classes |
| 5 | Allergology | Mechanisms of allergic diseases | 2 | lecture |
| 5 | Allergology | Bronchial asthma | 2 | classes |
| 5 | Allergology | Children's allergic diseases | 2 | lecture |
| 5 | Neonatology | Resuscitation of a newborn child | 2 | classes |
| 5 | Neonatology | Birth defects | 2 | classes |
| 5 | Neonatology | Assessment of the general condition and maturity of the newborn in the delivery room | 2 | lecture |
| 5 | Neonatology | Prematurity and low birth weight | 2 | lecture |
| 5 | Child development | Developmental assessment, percentile grids | 1 | classes |
| 5 | Child development | Physical examination of children in different age groups | 1 | classes |
| 5 | Child development | Screening tests in children | 1 | classes |
| 5 | Child development | Feeding a healthy child | 2 | classes |
| 5 | Child development | Mental development of the child | 1 | lecture |
| 5 | Child development | Battered child syndrome. Sexual abuse. | 2 | lecture |
| 5 | Child development | Pediatric interview and examination | 2 | classes |
| 5 | Child development | Physical and motor development in children and adolescents | 2 | lecture |
| 5 | Various | Diagnostic research in pediatrics | 2 | lecture |
| 7 | Infectious diseases and vaccinations | Sepsis in children | 2 | classes |
| 7 | Infectious diseases and vaccinations | Prevention of infectious diseases, Organization of preventive vaccinations in children, indications, contraindications, AEFI | 2 | classes |
| 7 | Infectious diseases and vaccinations | Children's parasitic diseases | 2 | classes |
| 7 | Infectious diseases and vaccinations | Children's bacterial diseases | 2 | lecture |
| 7 | Infectious diseases and vaccinations | Children's viral diseases | 2 | lecture |
| 7 | Infectious diseases and vaccinations | Neuroinfections in children | 2 | classes |
| 7 | Infectious diseases and vaccinations | TORCH syndrome and congenital infections | 1 | e-learning |
| 7 | Infectious diseases and vaccinations | Symptomatology of infectious diseases in children, rashes, lymphadenopathy, fever | 2 | lecture |
| 7 | Endocrinology | Diseases of the adrenal cortex | 1 | classes |
| 7 | Endocrinology | Diseases of the adrenal medulla | 1 | classes |
| 7 | Endocrinology | Neurological emergencies in newborns and infants | 1 | classes |
| 7 | Endocrinology | Growth disorders | 1 | lecture |
| 7 | Endocrinology | Diabetes | 1 | lecture |
| 7 | Endocrinology | Obesity and the metabolic syndrome | 1 | lecture |
| 7 | Endocrinology | Diseases of the thyroid gland | 1 | classes |
| 7 | Endocrinology | Puberty and gender identity disorder | 1 | lecture |
| 7 | Cardiology | Postnatal circulatory changes and pulmonary hypertension | 1 | e-learning |
| 7 | Metabolism, rheumatology, genetics | Rheumatic fever, scleroderma, systemic vasculitis | 1 | classes |
| 7 | Metabolism, rheumatology, genetics | Disorders of energy metabolism, hyperlipidemia, lysosomal diseases | 1 | classes |
| 7 | Metabolism, rheumatology, genetics | Monogenic diseases and chromosomal aberrations | 1 | classes |
| 7 | Metabolism, rheumatology, genetics | Genetic factors in the etiopathogenesis of diseases, genetic diagnostics | 2 | lecture |
| 7 | Child development | Milestones of psychosomatic development | 1 | e-learning |
| 8 | Infectious diseases and vaccinations | Active and passive prevention of infectious diseases | 1 | e-learning |
| 8 | Gastroenterology | Emergency situations in gastroenterology | 1 | e-learning |
| 8 | Cardiology | Fainting in children - various causes | 2 | classes |
| 8 | Cardiology | Heart arythmia | 2 | classes |
| 8 | Cardiology | Hypertension | 2 | classes |
| 8 | Cardiology | Congenital heart defects | 2 | lecture |
| 8 | Cardiology | Acquired heart defects | 1 | lecture |
| 8 | Cardiology | Circulatory failure | 1 | lecture |
| 8 | Cardiology | Heart muscle diseases | 1 | classes |
| 8 | Cardiology | Symptomatology and diagnostics of cardiovascular diseases in children | 1 | lecture |
| 8 | Metabolism, rheumatology, genetics | Juvenile arthritis and spondyloarthropathies | 1 | lecture |
| 8 | Metabolism, rheumatology, genetics | Disorders of carbohydrate and amino-acid metabolism | 1 | lecture |
| 8 | Nephrology | Diagnostic tests in diseases of the urinary tract | 1 | classes |
| 8 | Nephrology | Glomerulonephritis | 2 | classes |
| 8 | Nephrology | Tubulopathies | 1 | classes |
| 8 | Nephrology | Urolithiasis | 1 | classes |
| 8 | Nephrology | Urinary tract infections | 2 | lecture |
| 8 | Nephrology | Acute and chronic renal failure | 2 | lecture |
| 8 | Neurology | Increased intracranial pressure, cerebral edema, hydrocephalus | 1 | e-learning |
| 8 | Oncology | Solid tumors in children | 2 | classes |
| 8 | Various | Organ transplants in children | 2 | classes |
| 9 | Gastroenterology | Celiac disease and other enteropathies | 2 | classes |
| 9 | Gastroenterology | Gastroesophageal reflux | 1 | classes |
| 9 | Gastroenterology | Constipation and intestinal transit disorders | 1 | classes |
| 9 | Gastroenterology | Pancreatic diseases | 1 | classes |
| 9 | Gastroenterology | Symptomatology and diagnostics of digestive system diseases | 1 | lecture |
| 9 | Gastroenterology | Abdominal pain and functional disorders | 2 | lecture |
| 9 | Gastroenterology | Inflammatory diseases of the lower gastrointestinal tract | 2 | lecture |
| 9 | Gastroenterology | Acute and chronic diarrhea in children | 2 | classes |
| 9 | Gastroenterology | Nutritional treatment, elimination diets | 2 | classes |
| 9 | Hematology | Neutropenia, lymphadenopathy, splenomegaly, feverish conditions | 2 | classes |
| 9 | Hematology | Anemia | 2 | lecture |
| 9 | Hematology | Coagulation disorders and thrombocytopenia | 2 | lecture |
| 9 | Oncology | Leukemia in children | 2 | lecture |
| 9 | Oncology | Lymphomas in children | 2 | lecture |
| 9 | Pulmonology | Pneumonia | 2 | classes |
| 9 | Pulmonology | Chronic diseases of the respiratory system | 2 | classes |
| 9 | Pulmonology | Symptomatology and diagnosis of lung diseases | 2 | lecture |
| 10 | Various | Disorders of calcium and phosphate metabolism in children | 2 | classes |
| 10 | Gastroenterology | Liver disease | 1 | lecture |
| 10 | Upper respiratory tract | Inflammation of the nose and paranasal sinuses | 1 | classes |
| 10 | Upper respiratory tract | Inflammation of the ears and hearing loss | 1 | lecture |
| 10 | Górne drogi Upper respiratory tract | Laryngitis and pharyngitis | 1 | lecture |
| 10 | Neurology | Febrile seizures | 1 | classes |
| 10 | Neurology | Headaches | 1 | classes |
| 10 | Neurology | Demyelinating diseases, polyneuropathies, neuromuscular diseases | 2 | classes |
| 10 | Neurology | Nerve skin diseases | 1 | classes |
| 10 | Neurology | Symptomatology and diagnostic tests of CNS diseases | 1 | lecture |
| 10 | Neurology | Epilepsy, symptoms and management | 2 | lecture |
| 10 | Neurology | Cerebral Palsy | 2 | lecture |
| 10 | Pulmonology | Cystic fibrosis | 2 | lecture |
| 10 | Various | Circulatory resuscitation | 3 | classses |
| 10 | Various | Life-threatening conditions in children | 2 | lecture |
| 10 | Various | Eating disorders: anorexia nervosa, bulimia, feeding disorders | 2 | classes |
| 10 | Various | Prenatal diagnosis | 1 | classes |
| 10 | Various | Immunity disorders in children | 2 | lecture |
| 10 | Various | Psychiatric disorders in children, autism, hyperactivity, behavioral and mood disorders | 2 | lecture |

**4.3.Education outcomes in the discipline**

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| **Code** | **A student, who passed the course** | **Relation to teaching**  **outcomes** |
| within the scope of **knowledge**, the graduate knows and understands: | | |
| W01 | environmental and epidemiological conditions for the most common diseases; | E. W1 |
| W02 | nutrition and vaccination principles for healthy and sick children, including breastfeeding, immunization and carrying routine health checks for children; | E. W2. |
| W03 | the causes, symptoms, principles of diagnosis and therapeutic procedures in the case of the most frequent diseases of children:  1) rickets, tetany, seizures,  2) heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathy, arrhythmias , heart failure, hypertension, syncope,  3) acute and chronic diseases of the upper and lower respiratory tract, congenital malformations of the respiratory system, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, urticaria, anaphylactic shock, angioedema,  4) anemia, bleeding disorders, conditions for marrow failure, cancer in children, including solid tumors typical of childhood;  5) acute and chronic abdominal pain, vomiting, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer, nonspecific intestinal diseases, pancreatic diseases, cholestasis, liver disease, and other acquired diseases and congenital defects of the gastrointestinal tract,  6) urinary tract infections, congenital defects of urinary tract, ife styl syndrome, kidney stones, acute and chronic renal failure, acute and chronic inflammation of kidney, systemic kidney disorders, urination disorders, gastroesophageal vesico-ureteral reflux disease,  7) growth disorders, diseases of the thyroid and parathyroid, adrenal disease, diabetes, obesity, disorders of maturation and gonadal function,  8) cerebral palsy, encephalitis and meningitis, epilepsy,  9) the most common childhood diseases,  10) genetic syndromes,  11) connective tissue diseases, rheumatic fever, juvenile arthritis, systemic lupus, skin and muscle inflammation; | E. W3. |
| W04 | the problems of: child abuse and sexual abuse, mental retardation, behavioral disorders – psychosis, addiction, eating disorders, and excretion in children; | E. W4 |
| W05 | the most common life-threatening conditions in children and the rules of conduct in these states; | E. W6 |
| W06 | the characteristics of mental disorders and their treatment in children, youth and the elderly; | E.W19. |
| W07 | the causes, symptoms, principles of diagnosis and therapeutic management of the most common hereditary diseases | E.W37. |

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| within the scope of **ABILITIES,** the graduate knows how to: | | |
| U01 | make morphometric measurements, analyze the developmental profile and records the diseases’ karyotypes; | C.U4. |
| U02 | conduct a review of medical history of the child and its family; | E.U2. |
| U03 | conduct physical examination of the child at any age; | E.U4. |
| U04 | assess patient’s general condition, consciousness and ife styl; | E.U7. |
| U05 | assess the condition of a newborn according to a the Apgar scale and its maturity as well as examine neonatal reflexes; | E.U8. |
| U06 | make relations between anthropometric measurements and blood pressure with data in growth charts; | E.U9. |
| U07 | assess the stage of puberty; | E.U10. |
| U08 | conduct checkups for children; | E.U11. |
| U09 | perform differential diagnosis of the most common diseases in adults and children; | E.U12. |
| U10 | assess and describe the somatic and mental state of patients; | E.U13. |
| U11 | recognize states of a direct threat to life; | E.U14. |
| U12 | recognize when a patient is under the influence of alcohol, drugs and other addictive products; | E.U15. |
| U13 | plan diagnostic, therapeutic and preventive procedures; | E.U16. |
| U14 | conduct analysis of the potential side effects of each drug and the interaction between them; | E.U17. |
| U15 | qualify the patient for home treatment and hospitalization; | E.U20. |
| U16 | recognize states in which functional status of the patient’s or his/her preferences restrict the treatment in accordance with specific guidelines for the disease; | E.U21. |
| U17 | interpret laboratory tests results and identify the reasons for deviations; | E.U24. |
| U18 | apply dietary treatment with the consideration of enteral and parenteral feeding; | E.U25. |
| U19 | qualify the patient for vaccination; | E.U27. |
| U20 | collect and secure samples of material used in laboratory diagnostics; | E.U28. |
| U21 | perform basic medical procedures and treatments, including:  1) measurement of body temperature, pulse measurement, non-invasive blood pressure measurement,  2) monitoring of vital signs using a cardio-monitor or pulse oximetry,  3) spirometry, oxygen therapy, assisted and control mode ventilation  4) introduction of the oropharyngeal tube,  5) intravenous injection , intramuscular and subcutaneous injections, cannulation of peripheral veins, collection of peripheral venous blood, collection of arterial blood, collection arterialized capillary blood,  6) collecting swabs from the nose, throat and skin, puncture of pleural cavity,  7) catheterization of the urinary bladder in women and me, nasogastric intubation, gastric lavage, enema,  8) standard electrocardiogram along with its interpretation, cardioversion and defibrillation of the heart,  9) simple test strips and measuring the concentration of glucose in the blood; | E.U29. |
| U22 | assist when the following procedures and medical treatments are performed:  1) transfusions of blood and blood products,  2) drainage of the pleural cavity,  3) puncture of the pericardium,  4) puncture of the peritoneal cavity,  5) lumbar puncture,  6) needle biopsy,  7) epidermal tests,  8) intradermal and scarification tests and interpret their results; | E.U30. |
| U23 | plan specialist consultations; | E.U32. |
| U24 | monitor the status of a patient poisoned by chemical substances or drugs; | E.U34. |
| U25 | evaluate decubitus and apply appropriate dressings; | E.U35. |
| U26 | keep medical records of the patient. | E.U38. |
| U27 | comply with the aseptic and antiseptic rules; | F.U3. |
|  | within the scope of **SOCIAL COMPETENCE**, the graduate is able to: |  |
| K01 | establish and maintain deep and respectful contact with the patient and show understanding towards ideological and cultural differences; | H.S1 |
| K02 | do what is right for the patient; | H.S2 |
| K03 | respect medical confidentiality and patient’s rights; | H.S3 |
| K04 | take actions concerning the patient on the basis of ethical principles, being aware of social conditions and restrictions resulting from illness; | H.S4 |
| K05 | recognize his/her own limitations and self-evaluate educational deficiencies and needs; | H.S5 |
| K06 | ife st ife s ife style; | H.S6 |
| K07 | use reliable information sources; | H.S7 |
| K08 | conclude on the basis of own surveys and observations; | H.S8 |
| K09 | introduce rules of social conduct and teamwork to the group of specialists, including specialists form other medical professions also in the multicultural and multinational environment; | H.S9 |
| K10 | give opinions concerning various aspects of professional activity; | H.S10 |
| K11 | take responsibility for own decisions made during professional activities including own safety and safety of other people; | H.S11 |

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| * 1. **Methods of assessment of the intended teaching outcomes** | | | | | | | | | | | | | | | | | | | | | |
| **Teaching**  **outcomes**  ***(code)*** | **Method of assessment (+/-)** | | | | | | | | | | | | | | | | | | | | |
| **Exam oral/written\*** | | | **Test\*** | | | **Project\*** | | | **Effort**  **in class\*** | | | **Self-study\*** | | | **Group work\*** | | | **Others\* Observation** | | |
| ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | |
| *L* | *C* | *PC* | *L* | *C* | *PC* | *L* | *C* | *PC* | *L* | *C* | *PC* | *L* | *C* | *PC* | *L* | *C* | *PC* | *L* | *C* | *PC* |
| W01 | ***+*** |  |  |  | ***+*** |  |  | ***+*** |  |  | ***+*** | ***+*** |  |  |  |  |  |  |  |  |  |
| W02 | ***+*** |  |  |  | ***+*** |  |  | ***+*** |  |  | ***+*** | ***+*** |  |  |  |  |  |  |  |  |  |
| W03 | ***+*** |  |  |  | ***+*** |  |  | ***+*** |  |  | ***+*** | ***+*** |  |  |  |  |  |  |  |  |  |
| W04 | ***+*** |  |  |  | ***+*** |  |  | ***+*** |  |  | ***+*** | ***+*** |  |  |  |  |  |  |  |  |  |
| W05 | ***+*** |  |  |  | ***+*** |  |  | ***+*** |  |  | ***+*** | ***+*** |  |  |  |  |  |  |  |  |  |
| W06 | ***+*** |  |  |  | ***+*** |  |  | ***+*** |  |  | ***+*** | ***+*** |  |  |  |  |  |  |  |  |  |
| W07 | ***+*** |  |  |  | ***+*** |  |  | ***+*** |  |  | ***+*** | ***+*** |  |  |  |  |  |  |  |  |  |
| U01 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U02 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U03 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U04 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U05 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U06 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U07 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U08 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U09 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U10 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U11 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U12 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U13 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U14 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U15 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U16 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U17 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U18 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U19 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U20 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U21 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U22 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U23 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U24 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U25 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U26 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| U27 |  |  |  |  | ***+*** | ***+*** |  | ***+*** | ***+*** |  |  |  |  | ***+*** | ***+*** |  |  |  |  |  |  |
| K01-K11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** | ***+*** | ***+*** |

***\*delete as appropriate***

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| * 1. **Criteria of assessment of the intended teaching outcomes** | | |
| **Form of classes** | **Grade** | **Criterion of assessment** |
| lecture (L) | **3** | knowledge of each course contents at the level of 61%- 68% |
| **3,5** | knowledge of each course contents at the level of 69%-76% |
| **4** | knowledge of each course contents at the level of 77%-84% |
| **4,5** | knowledge of each course contents at the level of 85%-92% |
| **5** | knowledge of each course contents at the level of 93%-100% |
| classes (C)\* | **3** | knowledge of each course contents at the level of 61%- 68% |
| **3,5** | knowledge of each course contents at the level of 69%-76% |
| **4** | knowledge of each course contents at the level of 77%-84% |
| **4,5** | knowledge of each course contents at the level of 85%-92% |
| **5** | knowledge of each course contents at the level of 93%-100% |

* [**Thresholds**](https://pl.bab.la/slownik/angielski-polski/thresholds) **are valid from 2018/ 2019 academic year**

1. **BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT**

|  |  |
| --- | --- |
| **Category** | **Student's workload** |
| **Full-time**  **studies** |
| *NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/* | **265** |
| *Participation in lectures\** | **69** |
| *Participation in classes, seminars, laboratories\** | **190** |
| *Preparation in the exam/ final test\** |  |
| *Others\** | **6**1 |
| *INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/* | **135** |
| *Preparation for the lecture\** | **60** |
| *Preparation for the classes, seminars, laboratories\** | **75** |
| *Preparation for the exam/test\** |  |
| *Gathering materials for the project/Internet query\** |  |
| *Preparation of multimedia presentation* |  |
| *Others\** |  |
| *TOTAL NUMBER OF HOURS* | **400** |
| ECTS credits for the course of study | **16** |

***Accepted for execution*** *(date and signatures of the teachers running the course in the given academic year)*

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1 e-learning (without participation of the lecturer)