**SYLLABUS**

1. **Programme Details**

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| **1.1.** | **GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI** |
| **1.2.**  | **FACULTY : MEDICINE / DEPARTMENT: MEDICINE OF MOTHER AND CHILD** |
| **1.3.** | **DISCIPLINE: NEONATAL CARE** |
| **1.4.**  | **FIELD of STUDY: HEALTH** |
| **1.5.** | **STUDY CYCLE: BACHELOR**  |
| **1.6.** | **PROGRAMME of STUDY: Medicine - English**  |
| 1. **Discipline Details**
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| **2.1.** | **Name of the Discipline: NEONATAL CARE** |
| **2.2.** | **Teaching staff in charge with lectures: Associate Professor PhD Laura Florescu** |
| **2.3.** | **Teaching staff in charge with seminar activities: Associate Professor PhD Laura Florescu; Teaching assistant PhD Oana Raluca Temneanu; Teaching assistant PhD Dana Elena Mîndru** |
| **2.4. Year**  | **V** | **2.5. Semester** | **I/II** | **2.6. Type of evaluation**  | C1 / C2 | **2.7. Discipline regimen**  | **Compulsory** |

1. **Overall Time Estimates (hours/semester of didactic activity)**

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| * 1. **Number of hours per week**
 | 4 | **Of which: 3.2. lectures** | 2 | * 1. **seminar/ laboratory**
 | 2 |
| * 1. **Total hours in the curriculum**
 | 28 | **Of which: 3.5. lectures** | 14 | **3.6. seminar/ laboratory** | 14 |
| **Distribution of time**  |  |  |  |  | Hours |
| **Study time using coursebook materials, bibliography and notes**  | 20 |
| **Further study time in the libray, online and in the field** | 8 |
| **Preparation time for seminars / laboratories, homework, reports, portfolios and essays** | 15 |
| **Tutoring** | 2 |
| **Examinations** | 3 |
| **Other activities** | - |
| **3.7. Total hours of individual study** |  | 47 |
| **3.8. Total hours / semester** |  | 75 |
| **3.9. Number of credits**  |  | 3 |

1. **Prerequisites (where applicable)**

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| **4.1. curriculum** | Knowledge of embryology, anatomy, biochemistry, physiology, pathophysiology and medical semiology. |
| **4.2. competences** | Is not the case |

1. **Conditions (where applicable)**

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| **5.1. for lecture delivery** | Is not the case |
| **5.2. for seminar / laboratory delivery** | Is not the case |

1. **Specific Competences Acquired**

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| **Professional Competences (knowledge and skills)** | * Ability to communicate with family to obtain the information necessary to complete the medical file;
* Ability to see the newborn / infant / child and to prepare the medical file ;
* The measurements`s method of infant and child: height, weight, perimeters;
* Knowledge of anthropometric indicators for follow proper normal growth and development of infants and children;
* The correct assessment appearance of infant and child stools and vomiting;
* Technical umbilical wound cleansing, partial and general bath and how to perform infant massage and gymnastics;
* Knowledge of proper dressing and maintaining a good hygiene of the infant / child`s room and bed;
* Knowledge of immunization schedule for the infant and child and the technique of immunization;
* Knowledge of the correct medication for prevention of rickets and anemia in infants and toddler;
* Knowledge of the particularities of growth and care of low birth weight children;
* Ability to convince and encourage the mother to use natural feeding;
* The technique of natural, artificial, combined and diversified feeding;
* Knowledge of milk formula for infants and children;
* The technique of making dietetic preparations used in infant nutrition.
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| **Transversal Competences (roles, personal and professional development)** | * Ability to develop, depending on the age of the child, a proper care plan;
* Ability to assess risk factors in infants / children from disadvantaged socio-economic family.
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1. **Obiectives of the Discipline (related to the acquired competences)**

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| **7.1. General Obiective** | Acquiring the necessary knowledge of particularities of growth and development of new - born at term, of the high risk new - born (low birth weight / high birth weight), of infant and child. |
| **7.2. Specific Obiectives**  | Monitoring of proper growth, development and feeding to the new - born at term, to the high risk new-born (low / high birth weight), infant and child belonging to advise the family to ensure optimal and harmonious development. |

1. **Contents**

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| **8.1. Lecture** | **Teaching methods**  | **Comments** |
| 1. Child prenatal care, childhood periods and their peculiarities; Growth and Development | Power Point Presentation | The lecture will discuss:- Characteristics of childhood periods;- The laws of growth and growth mechanism;-The factors influencing growth (endogenous, exogenous, pathological). |
| 2. The anatomical and physiological newborn (n.b.) particularities  | Power Point Presentation | The lecture will discuss:- Criteria for assessing the maturity of n.b.;- Morphofunctional features of n.b.;-n.b.: characteristic phenomena - Assessing the health of n.b.;- N.b. care |
| 3. The anatomical and physiological peculiarities of the newborn at risk (low / high birth weight) | Power Point Presentation | The lecture will discuss:- Prematurity (classification, clinical picture, evolution, care);- N.b. with intrauterine growth retardation (classification, clinical picture, evolution, care);- Postmature(classification, clinical picture, evolution, care). |
| 4. The anatomical and physiological aspects of infant and child | Power Point Presentation | The lecture will discuss:- Morpho-functional features of infant and child;- Child care;- Characteristics of puberty. |
| 5. Child and Adolescent Nutrition  | Power Point Presentation | The lecture will discuss:- particularities of nutrition and metabolism in children;- Quantitative and qualitative nutritional needs and their role in the body;- Fine factors (proteins and some minerals);- Energy factors (carbohydrates and fat);-Bio-catalytic factors (vitamins, minerals, water). |
| 6. Natural feedingArtificial feeding | Power Point Presentation | The lecture will discuss:- Composition and caloric value of human colostrum and mature milk;- Factors influencing lactation;- Barriers to natural food;- Natural feeding benefits;- Dietary formulas used in the diets of 0-6 months children;- Intolerance to cow's milk. |
| 7. Diversified Food (complementary), child nutrition between 1-3 years, 4-6 years, 7-15 years | Power Point Presentation | The lecture will discuss:- Principles of diversified feeding (complementary);-Milk formulas for children between 6 months -3 years;- Composition and calorific value of food;-Technique diversified feeding. |
| **Bibliography**1. Ciofu E. et all, *Esenţialul în Pediatrie*, Editura Medicală AMALTEA, Bucureşti, 2002.
2. Dragomir Cristiana, Laura Florescu, *Puericultură – particularităţi de creştere şi dezvoltare a copilului la diferite vârste*, Editura “Gr.T.Popa” Iaşi, 2004.
3. Dragomir Cristiana, Laura Florescu, *Puericultură – nutriţia şi alimentaţia copilului sănătos*, Editura “Gr.T.Popa” Iaşi, 2005.
4. Florescu Laura, *Puericultură – Curs pentru studenţii Facultăţii de Medicină şi specialităţi*, Editura “Gr.T.Popa” Iaşi, 2008.
5. Geormăneanu M., *Puericultură și pediatrie*, Editura Didactică şi Pedagogică, Bucureşti, 1994.
6. Georgescu A. *Alimentaţia sugarului* *- Compendiu de Pediatrie*, ediția a II-a, București: Ed. ALL Medical, 2005.
7. Hurgoiu Voichița, *Puericultură*, Editura Medicală, Bucureşti, 1991.
8. Robert M. Kliegman et al. *Nelson Textbook of Pediatrics 18th Edition*, edited by Saunders, copyright 2007, an imprint of Elsevier Inc.
9. Stamatin Maria, Neonatologie, Editura “Gr.T.Popa” Iaşi, 2009.
10. Stoica V., Scripcariu V., Compendiu de specialități medico-chirurgicale, vol. II, Editura Medicală, București, 2016.
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| **8.2. Seminar / Laboratory** | **Teaching methods**  | **Comments** |
|  1. Infant and young child medical file:- General information and history;- Examination on systems;- The appearance of infant and child `s stools and vomiting;- Psychomotor development of children 0-3 years;- Newborn anthropometric indicators, low birth weight new-born, infant and child. | Oral, interactive knowledge gained by reviewing previous years, the completion of specific terms to the specialty and development of analytical thinking and synthetic capability.Power Point PresentationClinical examination at different ages | 6 hours |
| 2. Child immunization (technique, international vaccination schedule) and the rickets prophylaxis | The completion of specific terms to the specialty and development of analytical thinking and synthetic capability.Power Point Presentation | 1 hour |
|  3. Newborn and infant care;- Bath, massage, gym, room hygiene, bed and clothing hygiene  | Demo movies Practical demonstrations | 1 hour |
| 1. Natural and combined food:

- Principles of n.b. and infant feeding;- technique of the sucking test;.- Methods of combined feeding; | Oral, interactivePractical demonstrationsPower Point Presentation | 2 hours |
| 1. Artificial Food- Milk preparations used in artificial feeding;- The technique of artificial feeding;- Examples of regimes at different ages.
 | Oral, interactive Practical demonstrationsPower Point Presentation | 2 hours |
| 1. Diversified Food (complementary)- Diversification feeding principles;- dietetic preparations for infant (preparation technique, indications, composition).
 | Oral, interactive Practical demonstrationsPower Point Presentation | 1 hour |
| 1. Feeding the child with low birth weight

- Preparations used;- Gavage technique. | Oral, interactive Practical demonstrationsPower Point Presentation | 1 hour |
| **Bibliography**1. Berk E. Laura, *Child Development*, 8th ed., United States of America, Pearson Education, Inc. 2009
2. [Lynn S. Bickley](http://www.lww.com/webapp/wcs/stores/servlet/CatalogSearchResultCmd?storeId=11851&catalogId=9012052&langId=-1&searchTerm=Lynn+S+Bickley) *Bates' Guide to Physical Examination and History Taking* Tenth Edition, Dec 11, 2008.
3. Florescu Laura, Temneanu Oana Raluca, Mîndru Dana Elena, *Pediatric care – practical aspects in pediatric care for children aged 0-3 years*, Medicine Collection, Editura “Gr.T.Popa” Iaşi, 2017.
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1. **Correlations between the contents of the discipline and the expectations of the epistemic community, of profesional associations and of employers in the field**

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| Knowledge and skills are set as objectives mentioned as such in teaching and curricula reviewed annually. After analysis within the discipline, they are discussed and approved at the Bureau of Curriculum, in order to harmonize with other disciplines. Throughout the period is assessed systematically as possible direct correlation between content and expectations of the academic community, Nominees of the community, professional associations and employers. As a primary goal, discipline aims to give students optimal preconditions for the next years of study in the program Licence in Medicine in anticipation of successful employment immediately after graduation in residency programs in Romania and other EU countries. |  |  |

1. **Evaluation**

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| **Type of activity**  | **10.1. Evaluation criteria:**  | **10.2. Methods of evaluation** | **10.3. Percentage of final grade** |
| **10.4. Lecture** | At least 20 correct answers | Written test - Multiple choice questions - 45 questions with one option | 50% |
| **10.5. Seminar / Laboratory** | Average grade of ongoing examinations | Testing in practical lab, answers to practical lab during the semester | 10% |
| Grade for practical examination | Practical examination (Eliminatory test) - clinical case  | 40% |
| **Minimum standard of performance: at least grade 5 to pass the discipline:*** correct and complete examination of the child;
* assessing anthropometric indicators;
* recommending a diet at different ages for the normal child.
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**Date:**

**01.10.2019 Signiture of Didactic Co-ordinator**

 **Associate Professor, PhD, Laura Florescu**

 **Signiture of Department Director Conf. Univ. Dr. Mihaela Grigore**