**SYLLABUS**

1. **Programme Details**

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| **1.1.** | **GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI** |
| **1.2.**  | **FACULTY : MEDICINE / DEPARTMENT: SURGERY II** |
| **1.3.** | **DISCIPLINE**: **PAEDIATRIC SURGERY AND ORTHOPAEDICS** |
| **1.4.**  | **FIELD of STUDY: HEALTH** |
| **1.5.** | **STUDY CYCLE: BACHELOR**  |
| **1.6.** | **PROGRAMME of STUDY: English**  |
| 1. **Discipline Details**
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| **2.1.** | **Name of the Discipline: PAEDIATRIC SURGERY AND ORTHOPAEDICS** |
| **2.2.** | **Teaching staff in charge with lectures: Sef.lucr. Dr. Ciongradi Carmen Iulia** |
| **2.3.** | **Teaching staff in charge with seminar activities: Asist. univ. Dr. Sarbu Ioan, Asist. univ. Ciornei Mihaela** |
| **2.4. Year**  | **V** | **2.5. Semester** | **I/II** | **2.6. Type of evaluation**  | **E1/E2** | **2.7. Discipline regimen**  | Compulsory |

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

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| * 1. **Number of hours per week**
 | 5 | **Of which: 3.2. lectures** | 2 | * 1. **seminar/ laboratory**
 | 3 |
| * 1. **Total hours in the curriculum**
 | 35 | **Of which: 3.5. lectures** | 14 | **3.6. seminar/ laboratory** | 21 |
| **Distribution of time**  |  |  |  |  | Hours |
| **Study time using coursebook materials, bibliography and notes**  | 15 |
| **Further study time in the libray, online and in the field** | 10 |
| **Preparation time for seminars / laboratories, homework, reports, portfolios and essays** | 5 |
| **Tutoring** | 2 |
| **Examinations** | 3 |
| **Other activities** | 5 |
| **3.7. Total hours of individual study** |  | 40 |
| **3.8. Total hours / semester** |  | 75 |
| **3.9. Number of credits**  |  |  3 |

1. **Prerequisites (where applicable)**

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| **4.1. curriculum** | Not applicable |
| **4.2. competences** | Not applicable |

1. **Conditions (where applicable)**

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| **5.1. for lecture delivery** | Not applicable |
| **5.2. for seminar / laboratory delivery** | Not applicable |

1. **Specific Competences Acquired**

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| **Professional Competences (knowledge and skills)** | * Diagnostic and treatment for pediatric surgical and orthopedics diseases
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| **Transversal Competences (roles, personal and professional development)** | * The ability to discuss with the childrens and parents
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1. **Obiectives of the Discipline (related to the acquired competences)**

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| **7.1. General Obiective** | The ability to make an diagnostic for a pediatric surgical disease |
| **7.2. Specific Obiectives**  |  |

1. **Contents**

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| **8.1. Lecture** | **Teaching methods**  | **Comments** |
| **Cephalic and cervical area pathology*** Hydrocephalus
* Cranial dysraphysm
* Craniofacial clefts
* Labio-maxillo-palatal clefts
* Cervical cysts and fistulae
 | Oral presentation with videoprojection | 2 HOURS |
| **Pathology of the thoracic area*** Esophageal atresia
* Pulmonary malformations
* Pleuropulmonary infections
* Congenital diaphragmatic hernia
* Sterno-costal malformations
 | Oral presentation with videoprojection | 2 HOURS |
| **Digestive tract pathology*** Hypertrophic pyloric stenosis
* Appendicitis
* Congenital intestinal obstruction (high, intermediate, low)
* Intussusceptions ( infant and child)
* Hirschsprung disease
* Anorectal malformations
* Rectal prolapse
* Short intestine syndrome
* Biliary atresia
* Congenitalcholedochalcyst
* Portal hypertension
* Spleen pathology
* Rectal bleeding in neonates
 | Oral presentation with videoprojection | 2 HOURS |
| **Abdominal wall malformations*** Omphalocele
* Gastroschisis
* Omphaloenteric duct and uracal malformations
* Peritoneovaginal process pathology (hernia, hydroceles, cysts)

**Major malformations of the trunk*** Ectopia cordis
* Bladder extrophy
* Cloacal extrophy
 | Oral presentation with videoprojection | 2 HOURS |
| **Urinary pathology*** Congenital hydronephrosis
* Congenital obstructive megaloureter
* Vesico-ureteral reflux
* Ureteroceles
* Congenital urethral valves
* Neonatal urinary emergencies

**Pathology of the Genitalia*** Epispadias
* Hypospadias
* Undescended testis
* Acute scrotum syndrome
* Phimosis
* Varicocele
* Ambiguous genitalia
 | Oral presentation with videoprojection | 2 HOURS |
| **Solid tumors*** Hemangiomas and lymphangiomas
* Wilms tumor
* Nephroblastoma
* Bone tumors

**Human Clinical Teratology*** Teratomas
* Alimentary tract duplications
* Urinary duplications
* Polydactylism and syndactilism
* Conjoined twins
 | Oral presentation with videoprojection | 2 HOURS |
| **Minimal access surgery and microsurgery in Children*** Indications
* General considerations
* Equipment
* Microsurgery

Antenatal diagnosis and fetal surgery | Oral presentation with videoprojection | 2 HOIRS |
| **Pediatric orthopedics*** Congenital hip dysplasia
* Congenital club feet
* Scoliosis

**Pediatric trauma*** Obstetrical trauma
* Foreign bodies (respiratory, intestinal)
* Bites
* Soft tissue trauma
* Burns
* Battered child syndrome
* Osteoarthritis
* Osteomyelitis
* Fractures, dislocations, sprains
 |  | 2 HOURS |
| **Bibliography**1. Pediatric surgery . Clinical lectures for students

Goţia D.G., Savu B, Litografia UMF Iaşi, 19981. Basic Clinical manuevers and procedures in Pediatric Surgery-A guide for students

Goţia D.G., Savu B, Aprodu S.G., Gavrilescu SimonaLitografia UMF Iaşi 1997* Bibliografie suplimentara: Pediatric surgery, 5nd edition, Ashcraft, Holocomb and Murphy, editura Saunders 2010
 |
| **8.2. Seminar / Laboratory** | **Teaching methods**  | **Comments** |
| 1.Taxis reduction maneuver of incarcerated inguinal hernia in childrenScrotal examination for undescendent testis and acute scrotum syndrome | Case reports, simulation of surgical clinical maneuvers | 3 HOURS |
| 2.Manual reduction of paraphimosis | Case reports, simulation of surgical clinical maneuvers | 3 HOURS |
| 3.Enemas in young children and the rectal nursing in Hirschprung’s diseasePalpation of the pyloric olive | Case reports, simulation of surgical clinical maneuvers | 3 HOURS |
| 4.Rectal digital examination of the pediatric patient.Manual reduction of the rectal prolapsed in children | Case reports, simulation of surgical clinical maneuvers | 3 HOURS |
| 5.Physical examination of a child with abdominal tumor.Palpation of the intussusceptions tumor in young children | Case reports, simulation of surgical clinical maneuvers | 3 HOURS |
| 6.Basic care of uncomplicated bone fractures in children.Reduction of pulled elbow (nursemaid’s elbow).Basic care of traumatic joint dislocation and sprains in children | Case reports, simulation of surgical clinical maneuvers | 3 HOURS |
| 7.The Barlow test and the Ortolani maneuver | Case reports, simulation of surgical clinical maneuvers | 3 HOURS |
| **Bibliography**1. Pediatric surgery . Clinical lectures for students

Goţia D.G., Savu B, Litografia UMF Iaşi, 19981. Basic Clinical manuevers and procedures in Pediatric Surgery-A guide for students

Goţia D.G., Savu B, Aprodu S.G., Gavrilescu SimonaLitografia UMF Iaşi 1997 |

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 abilities are established as didactic objectives and specified as such in the analytic programs that are revised yearly. After their analysis by the study discipline staff, these are discussed and approved in the Curricular Committee, towards curricular harmonization among the various study disciplines. Along this entire process systematic evaluation is performed, directly if possible, regarding the correspondence of the contents to the expectations of the academic community and of the representatives of the social community, professional associations, and employers. As primary goal the discipline intends to offer the students optimal background for the following years of study in the program for License in Medicine, in the perspective of successfully hiring, immediately after graduation, in residence programs from 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** | Grade for multiple choice test | standardized multiple choice test | 50% |
| **10.5. Seminar / Laboratory** | Average grade of ongoing examinations | ongoing evaluation | 10% |
| Grade for practical examination | practical exam | 40% |
| **Minimum standard of performance: at least grade 5 to pass the discipline** |

**Date: Signiture of Didactic Co-ordinator**

**Name and surname**

**01.10.2019**

 **Signiture of Department Director Name and surname**