

Course Title	<b>Paediatric Nursing</b>						
Course Code	<b>NURS 307</b>						
Course Type	Compulsory						
Level	BSc (Level 1)						
Year / Semester	3 <sup>rd</sup> / Spring (6 <sup>th</sup> Semester)						
Instructor's Name	Dr. Konstantinos Petsios						
ECTS	6	Lectures / week	3	Laboratories / week	2	Clinical teaching / week	5
Course Objectives	<p>The main purpose of the course is to familiarize students with the concepts and principles of pediatric nursing care, to assist students in understanding the theories and methodologies related to the provision of holistic pediatric nursing care based on modern principles of family care and to enhance critical thinking and nursing care planning skills based on the principles of the nursing process.</p> <p>The Scope is nursing students to obtain/develop scientific knowledge and specialized clinical skills for the comprehensive management of the pragmatic needs and problems that child and family face, at every stage of care, from prevention and treatment to complete rehabilitation or provision of palliative care and end-stage care.</p> <p>In both the theoretical and the laboratory part, the teaching focuses on the acquisition of skills and the formation of positive attitudes with the active participation of students thanks to the application of appropriate educational techniques that enhance collaboration, interdisciplinarity and evaluation</p>						
Learning Outcomes	<p><b>At the completion of the course the student will be able to:</b></p> <ul style="list-style-type: none"> <li>- Understand definitions and concepts related to the provision of pediatric nursing care.</li> <li>- Describe the principles of human development and the expected transitions in the care of pediatric patients from childhood to adolescence and supports the special needs of neonates, children and teens for the provision of care.</li> <li>- Recognize the different stages of growth and development of the paediatric patient (from infancy to adolescence) and evaluate them critically using scales and developmental assessment tools.</li> <li>- Evaluate/Assess normal psychosocial needs and recognize the negative effects of hospitalization on the psycho-emotional development of infants, children and adolescents.</li> <li>- Analyze how biological, psychological, social, cultural and spiritual</li> </ul>						

	<p>needs affect development at each stage of development/growth independently.</p> <ul style="list-style-type: none"> <li>- Familiarize with the basic principles of care of the hospitalized pediatric patient and the evaluation of: Physiological / physical needs, Psycho-emotional needs &amp; disorders, Social &amp; spiritual needs, Parental needs, The needs of special groups of patients.</li> <li>- Explain how to manage and support children who have been abused, identify signs and symptoms related to child abuse, and become familiar with the different forms of abuse that may occur.</li> <li>- Assess, analyze and evaluate the needs of children for the design/development and implementation of appropriate individualized holistic nursing care plans to address the most common congenital and acquired diseases (acute or chronic) that affect children by age group and per system.</li> <li>- Recognize timely the side effects of the therapeutic approach and apply documented nursing interventions.</li> <li>- Evaluate the special/individualized problems of the families of children suffering from chronic diseases.</li> <li>- Familiarize with the basic principles of end-stage pediatric patient care, child &amp; family support even for the period after child loss.</li> <li>- Implement all steps of the nursing process in the classroom learning environment, to manage/organize/plan the care of pediatric patients and their families facing biological / psychological / social / cultural and spiritual needs.</li> <li>- Develop critical thinking to understand and address the problems and needs of the hospitalized child and his/her family.</li> <li>- Implement evidence based knowledge and international guidelines to plan the care and provide it in a documented and structured manner.</li> <li>- Recognize the important role of parents and other family members both in the care of the child and in home care and to apply the principles of family-centered care.</li> <li>- Plan and implement the adequate/appropriate pediatric nursing interventions in accordance with the findings of the nursing evaluation in the context of the implementation of the nursing process.</li> </ul>		
Prerequisites	None	Required	None
Course Content	<p>Theory</p> <ol style="list-style-type: none"> <li>1. Introduction to pediatric nursing. <ul style="list-style-type: none"> <li>– Basic principles of practicing the profession.</li> <li>– Issues of Ethics &amp; Deontology.</li> <li>– Child &amp; family rights.</li> <li>– Child abuse.</li> </ul> </li> <li>2. Family-centered care. <ul style="list-style-type: none"> <li>– Needs of children &amp; parents (physical, developmental, psycho-emotional, social)</li> </ul> </li> </ol>		

- Needs of hospitalized pediatric patients.
- Communication skills
- 3. Evaluation of a pediatric patient.
  - Homeostasis and fluid, electrolyte & acid-base balance.
  - Evaluation of growth, development & nutrition
- 4. Peculiarities of newborn care.
  - Care of premature newborns.
  - Congenital diseases.
- 5. Structured care of a seriously ill pediatric patient – Special requirements/skills for emergency & intensive care
- 6. Caring for children with respiratory problems
- 7. Caring for children with cardiovascular problems
- 8. Caring for children with nephrological problems
- 9. Caring for children with gastrointestinal problems
- 10. Caring for children with neurological problems.
  - o Child care with Craniofacial Injury & Severe Trauma.
  - o Burns in childhood
- 11. Care of a child with Endocrine Disorders.
  - Child care with Diabetes
  - Infections in childhood
  - Metabolic disorders
- 12. Caring for children with cancer/neoplasms.
  - Palliative care
  - End of life care
  - Pediatric pain management
- 13. Paediatric school & community care.
  - School nursing - Vaccinations
  - Caring for children with chronic diseases and disabilities.
  - Caring for children with special abilities.
  - Hospital at home care for paediatric patients

#### **Laboratory**

- Communication skills by age - History
- Clinical examination - Receiving vital signs – Differences in assessment between age group
- Drug administration in children & Calculations of pediatric drug doses
- Blood gas analysis - Administration of fluids, blood & blood products in paediatric patients.
- Monitoring severe ill pediatric patient
- Oxygen therapy in children
- Basic life support in neonates, infants and children - Basic ECG interpretation
- Treatment of fever in childhood
- Assessment of swallowing - food absorption - Feeding patients with Levine, Feeding Tube or Gastrostomy

	<ul style="list-style-type: none"> <li>- Care &amp; Management of peripheral Venous Lines/Catheters - Insertion – Maintenance &amp; Safe use</li> <li>- Care and Management of Central Venous Catheters - Maintain patency - Prevention of infections</li> <li>- Pain scales in children</li> <li>- Administration of insulin in childhood</li> </ul> <p><b>Clinical Teaching:</b> Students under the guidance of clinical instructors’ practice in nursing procedures related to the course content and provide individualized nursing care <i>in Paediatric Medical or Surgical departments</i> according to the Clinical Education Guide.</p>
<p>Teaching Methodology</p>	<p><b>Theory</b></p> <p>The teaching of the theory of the course includes lectures for the understanding of the theoretical content related to Pediatric Nursing. Power point, video, images along with techniques than enhance active participation of students in working groups, group or individual consolidation exercises, case studies, active dialogue are used to assist teaching, in order to achieve a better understanding and consolidation of course theory.</p> <p>Lecture notes and presentations are available online (e-class) for use by students in combination with textbooks.</p> <p><b>Laboratory</b></p> <p>During the laboratory sessions, students develop their clinical skills with the assistance of simulation models. At the same time, in the laboratory, they become familiar with the various techniques and the use of algorithms (eg basic life support algorithm, management of epileptic seizures, management of hyperpyrexia, etc.), the use of assessment tools and scales along with the physical examination and the evaluation of clinical findings. At the same time, they are trained in the administration of drugs and fluids from all routes of administration, oxygen therapy, culture sampling, enteral and parenteral nutrition, placement of peripheral lines, care and maintenance of peripheral and central venous lines, body care and evaluation of growth and development in each age group (0-14 years). Different pediatric dose calculation techniques are presented. While special reference is made to the use of pain scales for the evaluation of pain in all age groups and the application of pharmaceutical and non-pharmaceutical methods of pain control.</p> <p><b>Clinical Teaching</b></p> <p>In clinical teaching, the method of demonstration and guided and supervised by the clinical instructors is used to implement various nursing operations / procedures and application of personalized nursing care.</p>

<p>Bibliography</p>	<p><b><u>Textbooks:</u></b></p> <ul style="list-style-type: none"> <li>– Marilyn J. Hockenberry, David Wilson, Cheryl C Rodgers. Wong's Essentials of Pediatric Nursing 11th Edition. Mosby (2022). ISBN-13: 978-0323624190.</li> <li>– Gannon Tagher, Lisa Knapp. Pediatric Nursing: A Case-Based Approach 1st Edition. Wolters Kluwer (2021). ISBN-13: 978-1496394224.</li> </ul> <p><b><u>References:</u></b></p> <ul style="list-style-type: none"> <li>– Elizabeth Bruce, Janet Williss , Faith Gibson. The Great Ormond Street Hospital Manual of Children and Young People's Nursing Practices. John Wiley &amp; Sons Inc. New York, United States (2020). Language English. 2nd Edition. ISBN 9781118898222.</li> <li>– Mikki Meadows-Oliver. Pediatric Nursing made Incredibly Easy!, 3rd Edition. Wolters Kluwer (2019). ISBN/ISSN: 9781975124830</li> <li>– Marilyn J. Hockenberry &amp; David Wilson. Wong's Nursing Care of Infants and Children. Publisher Elsevier - Health Sciences Division. Mosby, St Louis, United States (2018). Language English. 11th Revised edition. ISBN 9780323549394.</li> <li>– Ματζίου - Μεγαπάνου Βασιλική, Παιδιατρική Νοσηλευτική - Βασικές Αρχές Φροντίδας, Εκδόσεις Λαγός, 2011</li> <li>– ΠΑΙΔΙΑΤΡΙΚΗ ΝΟΣΗΛΕΥΤΙΚΗ–Θεμελιώδεις Γνώσεις για τη Φροντίδα του Παιδιού σε Όλα τα Στάδια της Ανάπτυξης. M.J. Hockenberry, D. Wilson Επιμ. Ελλην. Έκδοσης: Ελένη Κυρίτση/ΕΚΔΟΣΕΙΣ ΒΗΤΑ, 2011</li> <li>– KENDRIN SONNEVILLE, CHRISTOPHER DUGGAN, Εγχειρίδιο Διατροφής Παιδιών (5η έκδοση), ΠΑΡΙΣΙΑΝΟΣ, 2018</li> <li>– P. Shelov Steven, Tanya Remer Altmann. Φροντίδα για το μωρό και το παιδί, από τη γέννηση μέχρι την ηλικία των 5. Αμερικανική Ακαδημία Παιδιατρικής. Εκδόσεις Πασχαλίδης, 2012.</li> </ul> <p><i>Through the services of the university library, access is provided to electronic repositories of scientific journals and articles, indicatively <b>ProQuest, Cambridge University Press</b> and <b>Science Direct</b> with thousands of scientific journals in the fields of health sciences.</i></p>
<p>Assessment</p>	<p>The assessment of this course consists of the coursework (midterm exam, laboratory assessment, class participation) and final exam.</p> <p><b>Mid-Term Exam: 30%.</b> A written midterm exam will be comprised by multiple choice questions, short answer and open questions.</p> <p><b>Laboratory assessment: 10%.</b> The laboratory assessment includes practical and oral examination of students in nursing techniques and procedures according to the course content. (Absences of up to 15% are replenished, and beyond this percentage the student fails the entire course. Students must succeed an assessment of at least 50%, otherwise the student fails the entire course.)</p>

	<p><b>Clinical Teaching assessment: 10%.</b> It is applied by daily assessment of student performance when providing personalized nursing care to individuals, families and communities, in accordance with the course's clinical goals. (Absences of up to 15% are replenished, and beyond this percentage the student fails the entire course. Students must succeed an assessment of at least 50%, otherwise the student fails the entire course.)</p> <p><b>Written Final Exam: 50%.</b> A written final exam will be comprised by multiple choice questions, short answer and open questions.</p>
Language	Greek / English