

### Module Description: Basic Nursing Science (21R01110505)

<b>Module designation</b>	Course Module
<b>Semester(s) in which the module is taught</b>	II
<b>Person responsible for the module</b>	<p>Arnis Puspitha R, S.Kep., Ns., M.Kes (coordinator)            Dr. Yuliana Syam, Ns.,M.Kes            Dr. Takdir Tahir, S.Kep.,Ns,M.Kes            Dr. Kadek Ayu Erika, S.Kep.,Ns.,M.Kes            Abdul Majid, S.Kep., Ns., M.Kep., Sp.KMB            Andi Baso Tombong, S.Kep., Ns, M.ANP            Lecturer of Anatomical Pathology, Faculty of Medicine            Lecturer of Clinical Pathology, Faculty of Medicine            Lecturer of Parasitology, Faculty of Medicine</p>
<b>Language</b>	Bilingual, Bahasa Indonesia and English
<b>Relation to Curriculum</b>	This course is a compulsory course and offered in the 2 <sup>th</sup> semester.
<b>Teaching Methods</b>	<p>Teaching methods used in this course are:</p> <ul style="list-style-type: none"> <li>- Lecture</li> <li>- Collaborative Learning</li> <li>- TGT</li> <li>- Jigsaw</li> <li>- Case Study</li> <li>- SGD</li> <li>- Media based learning</li> <li>- PBL</li> <li>- Think-pair-share (TPS)</li> <li>- Question Based Learning</li> <li>- Discovery Learning</li> <li>- Clinical Skill Lab (CSL)</li> </ul>
<b>Workload</b> (incl. contact hours, self-study hours)	<p>Contact hours for lecture is 53,33 hours, structured assignments are hours, private study are 64,00 hours, and practice are 45,33 hours.            For this course, students are required to meet a minimum of 226,67 hours in one semester, which consist of:</p> <ul style="list-style-type: none"> <li>- 53,33 hours (equals with ECTS) for lecture,</li> <li>- 64 hours for structured assignments,</li> <li>- 4 hours for self-study hours,</li> <li>- 45,33 hours for clinical skill laboratories and clinical fieldwork.</li> </ul>
<b>Credit points</b>	5 credit points (equivalent with 7.56 ECTS)
<b>Required and recommended prerequisites for joining the module</b>	<p>Students must have taken following courses:</p> <ol style="list-style-type: none"> <li>1. Basic Science in Nursing I</li> </ol>
<b>Module objectives/intended learning outcomes</b>	<p>After completing the course and given with a maternity nursing case, students will be:</p> <p><b>CLO 1:</b> Explain the concepts of pathology and pathophysiology based on problems (K1).  <b>CLO 2:</b> Explain the concept of microbiology (K2).</p>

	<p><b>CLO 3:</b> Explain the concept of parasitology (K3).</p> <p><b>CLO 4:</b> Demonstrate the procedure of specimen collection for supporting examination purposes (C1).</p>
<b>Content</b>	<p>Students will learn about:</p> <ol style="list-style-type: none"> <li>1. Basic concepts of pathology and pathophysiology</li> <li>2. Adaptation, injury and cell aging</li> <li>3. Congenital abnormalities</li> <li>4. Cell growth and differentiation</li> <li>5. Inflammatory Response</li> <li>6. Infectious agents: viruses, bacteria, fungi, parasites, rickettsia, and chlamydia</li> <li>7. Factors influencing the transmission of infectious agents</li> <li>8. Differences in the infection process of various infectious agents</li> <li>9. Conditions that weaken the host's defenses against microorganisms</li> <li>10. Opportunistic infections</li> <li>11. Reduces the number of contaminating microorganisms &amp; prevents transmission</li> <li>12. Controlling the growth of microorganisms</li> <li>13. Classification of medicines</li> <li>14. Indications and contraindications for drugs</li> <li>15. Side effects of drugs, drug interactions</li> <li>16. Traditional medicines and medicinal toxicology</li> <li>17. Pharmacodynamics and pharmacokinetics</li> <li>18. Method of administration and dose calculation</li> <li>19. The role of nurses in examinations for patient supporting data (laboratory examinations, x-rays, etc)</li> </ol>
<b>Examination forms</b>	Multiple Choice Questions
<b>Study and examination requirements</b>	<ul style="list-style-type: none"> <li>- Students must attend 15 minutes before the class starts.</li> <li>- Students must inform the lecturer if they will not attend the class due to sickness, etc.</li> <li>- Students must submit all class assignments before the deadline.</li> <li>- Students must attend all classes of clinical skill laboratories.</li> <li>- Student must attend the early clinical exposure.</li> <li>- Students must attend the exam to get final grade.</li> <li>- Students must get final mark minimum of 40</li> <li>- Minimum attendance requirement of 80% to be able to take the final exam</li> </ul>
<b>Reading list</b>	<ol style="list-style-type: none"> <li>1. Aschenbrenner, DS. &amp; Venable, S.J. (2012). Drug therapy in nursing. Philadelphia: Lippincott William &amp; Wilkins</li> <li>2. Bullock, B.A. (2000). Focus on pathophysiology. Philadelphia: JB.Lippincott</li> <li>3. Burton, GRW. &amp; Engelkirk, PG. (2004). Microbiology for the health sciences. 7th ed. Philadelphia: Lippincott William &amp; Wilkins.</li> <li>4. Copstead, L.C. and Banasik, J.L. (2000). Pathophysiology : Biological and behaviour perspectives. Philadelphia : W.B. Saunders Company.</li> <li>5. Gandahasada, S., Henry D., Wita P. (2004). Parasitologi Kedokteran. Jakarta: Balai Penerbit FK-UI</li> <li>6. Greenwood, D., Slack, RCB., Peutheren, J. (2002). Medical microbiology: a guide to microbial infections: pathogenesis,</li> </ol>

	<p>immunity, laboratory, diagnosis, and control. (edisi 16). New York: Churchill Livingstone.</p> <ol style="list-style-type: none"> <li>7. Huether S.E. and McCance K.L. (2016) Understanding Pathophysiology. 6th edition. Mosby: Elsevier Inc.</li> <li>8. McCuiston L.E., Kee, J.L. and Hayes, E.R. (2014). Pharmacology: A Patient-Centered Nursing Process Approach. 8th ed. Saunders: Elsevier Inc.</li> <li>Pagana K.D., Oagana T.J. (2014). Mosby's Manual of Diagnostic and Laboratory Tests. 5th edition. Mosby: Elsevier Inc.</li> <li>9. Malarkey L.M., McMorrow M.E. (2012). Saunders Nursing Guide to Laboratory and Diagnostic Tests. 2nd edition. Saunders: Elsevier Inc.</li> <li>10. Port, C.M. (2013). Pathophysiology: Concepts of altered health status 9th ed. Philadelphia : JB. Lippincott.</li> <li>11. Pringgoutomo, S., Himawan, S. &amp; Tjarta, A. (2002). Textbook of pathology I (General). Jakarta: Sagung Seto</li> <li>12. Prosser, S., Worster, B., MacGregor, J., et.al. (2010). Applied pharmacology: an Introduction to pathophysiology and drug management for nurses and health care professional. London: Mosby.</li> <li>13. Rosdahl, C.B.(2011). Textbook of basic nursing. Philadelphia: Lippincott.</li> <li>14. Sacher, R.A &amp; McPherson, R.A. (2000). Widmann's clinical interpretation of laboratory tests. Philadelphia: F.A. Davis Company.</li> <li>15. Cavannaugh B.M. (2003). Nurses's manual of laboratory and diagnostic tests. Philadelphia : F.A. Davis Company</li> </ol>
<b>Cluster of Competence</b>	Nursing Clinical Sciences and Skills
<b>Form of Assessments</b>	<ul style="list-style-type: none"> <li>- Presentation (20%)</li> <li>- Participation (20%)</li> <li>- Assignments Papers (20%)</li> <li>- Written Exam (20%)</li> <li>- OSCE (20%)</li> </ul>
<b>Date of last amendment made</b>	August 2023

### Course Learning Outcome Assessment of Learning Outcomes for Course Modules

**Course Module Name** : Basic Science in Nursing  
**Code** : 21R01110505  
**Semester** : II  
**Person responsible for the module** : Arnis Puspitha R, S.Kep., Ns., M.Kes  
**Lecturers** : 1. Dr. Yuliana Syam, Ns.,M.Kes  
 2. Dr. Takdir Tahir, S.Kep,Ns,M.Kes  
 3. Dr. Kadek Ayu Erika, S.Kep.,Ns.,M.Kes  
 4. Abdul Majid, S.Kep., Ns., M.Kep., Sp.KMB  
 5. Andi Baso Tombong, S.Kep., Ns, M.ANP  
 6. Lecturer of Anatomical Pathology, Faculty of Medicine  
 7. Lecturer of Clinical Pathology, Faculty of Medicine  
 8. Lecturer of Parasitology, Faculty of Medicine

Intended Learning Outcomes	Course Module Objectives	List of Assessments	List of Rubrics
<p><b>Knowledge (K):</b></p> <p>Mastering the knowledge of nursing, health information systems, and health technology to provide nursing care based on an evidence-based nursing process approach</p>	<p><b>Knowledge:</b></p> <p><b>CLO 1:</b> Explain the concepts of pathology and pathophysiology based on problems (K1).  <b>CLO 2:</b> Explain the concept of microbiology (K2).  <b>CLO 3:</b> Explain the concept of parasitology (K3).</p>	<p><b>Assignment:</b></p> <ul style="list-style-type: none"> <li>- Presentation</li> <li>- Participation</li> <li>- Assignments Papers</li> <li>- Written Exam</li> </ul> <p><b>Written exam:</b> Multiple Choice Questions</p> <ul style="list-style-type: none"> <li>- Mode of delivery: Online through Learning Management System (LMS) &amp; paper-based exam.</li> <li>- Total number of questions: 50.</li> </ul>	<p><b>Rubric for Multiple Choice Questions</b></p> <ul style="list-style-type: none"> <li>- Scored 1, if the answer is correct.</li> <li>- Scored 0, if the answer is wrong.</li> <li>- Final grade= Total corrected items divided by total items multiply 100.</li> </ul>

Intended Learning Outcomes	Course Module Objectives	List of Assessments	List of Rubrics
		<ul style="list-style-type: none"> <li>- Each question must be completed within 2 minutes.</li> <li>- Duration of exam: 100 minutes.</li> </ul> <p><b>Individual and group presentation</b></p>	<p><b>Rubric for Participation</b></p> <p><b>Rubric for Presentation</b></p> <p><b>Rubric for Paper Assignment</b></p>
<p><b>Competence (C1):</b></p> <p>Able to manage comprehensive and continuous nursing care that ensures patient safety based on research outcomes, in accordance with nursing care standards across all nursing areas, according to their authority, especially for diseases commonly occurring in Indonesia as a tropical and maritime country.</p>	<p><b>Competence:</b></p> <p><b>CLO 4:</b> Demonstrate the procedure of specimen collection for supporting examination purposes (C1).</p>	<p><b>Clinical Skill Lab Mastery:</b></p> <p>Demonstrate the procedure of specimen collection for supporting examination purposes</p> <p>Objective Structured Clinical Examination (OSCE)</p>	<p><b>Rubric for Clinical Skill Lab Observation</b></p>

**Proportion of assessment aspects according to the course learning outcomes.**

No	Code	CLO	Sub CLO	Learning Method	Metode Evaluasi						Proporsi	
					Participatory Analysis	Project result	Assignment	Quis	Mid-test	Final Test		
1	K	CLO 1	Sub CLO 1-5	Lectures, discussions, case method	<ul style="list-style-type: none"> <li>• Activeness in discussions and presentations 5%</li> <li>• Attendance in class 10%</li> </ul>							5%
		CLO 2	Sub CLO 6-12	Jigsaw			Assignment: Mind Map 5%					5%
				Lecture					Final test: MCQ 5%	5%		
				Discussion, case method	Assignment: case study report 5%					5%		
				Lecture			Quis 5%			5%		
		CLO 3	Sub CLO 13-18	Team-based project: creating health education posters		Assignment 3: Team-based project: creating posters & health education 10%						10%
				CSL	OSCE 20%						20%	
				Team-based project: Early Clinical Exposure.		Assignment 4: Team-based project: creating a complete nursing care report 15%					15%	
	2	C1	CLO 4	Sub CLO 19	SGD, group presentation			Tugas 5: Paper on trends and issues and EBNP 5%				5%
<b>TOTAL</b>					<b>40%</b>	<b>25%</b>	<b>10%</b>	<b>5%</b>	<b>0%</b>	<b>20%</b>	<b>100%</b>	

### Example of Written Test Exam

1. It is known that a male patient suffers from melena. If the nurse establishes a nursing diagnosis of fluid and electrolyte volumes less than body requirements, what focal data can be taken to strengthen the enforcement of this diagnosis.
  - A. Acral coldness in extremities
  - B. Agitation
  - C. Increased urine osmolality
  - D. Decreased serum sodium level
  - E. Hypertension
2. A 28 year old man was admitted to the operating room with complaints of lower leg injuries. The results of the wound assessment found: an open wound on the heel, pus visible and smelling, the base of the wound was yellow and there was a lot of exudate fluid. What type of injury does this patient have?
  - A. Wound Contamination
  - B. Clean Wounds
  - C. Wound Infection
  - D. Chronic Wounds
  - E. Sterile Wound
3. Taenia saginata taeniasis is transmitted through:
  - A. Vector containing the infective form
  - B. Ingestion of an intermediate host containing the infective form
  - C. The infective form penetrates the skin
  - D. Food contaminated with infective form
  - E. Direct contact with sufferers
4. Mrs. M, 56 years old, is being treated in the internal care unit. Mrs. M was admitted to the hospital with complaints of pain in the legs and visible swelling, which caused the patient to be unable to walk. A nurse came to the patient with the aim of carrying out an assessment. What the nurse can find based on the complaints above is based on the principle of signs of inflammation;
  - A. The nurse palpates the dolor
  - B. The nurse inspects the dolor
  - C. The nurse inspects the tumor
  - D. The nurse palpates the tumor
  - E. The nurse auscultates the rubor