

Module Description: Basic Science in Nursing I

Module name	Course Module
Module level, if applicable	Bachelor of Science in Nursing (BSN)
Code, if applicable	17102R0106
Subtitle, if applicable	-
Course, if applicable	Basic Science in Nursing I
Semester(s) in which the module is taught	I
Person responsible for the module	Andriani, S.Kep. Ns. M.Kes.
Lecturer	<ol style="list-style-type: none"> 1. Dr. Yuliana Syam, S.Kep., Ns., M.Kes. 2. Dr. Kadek Ayu Erika, S.Kep., NS., M.Kes. 3. Dr. Takdir Tahir, S.kep., Ns., M.Kes. 4. Nurmaulid, S.Kep., Ns., M.Kep 5. Syahrul, S.Kep., Ns., M.Kes., Ph.D 6. Mulhaeriah, M.Kep., Ns., Sp.Mat. 7. Anatomy team 8. Biochemistry team
Language	Indonesian Language [Bahasa Indonesia]
Relation to Curriculum	This course is a compulsory course and offered in the 1 st semester.
Type of teaching and contact hours	<p>Teaching methods used in this course are:</p> <ul style="list-style-type: none"> - Lecture (i.e., lecture, Small Group Discussion, Problem Based Learning (PBL)) - Structured assignments (i.e., paper) <p>The class size for lecture is approximately 59 students</p> <p>Contact hours for lecture is 46.67 hours, assignments is 56.00 hours, and practice in laboratorium is 79.33 hours</p>
Workload	<p>For this course, students are required to meet a minimum of 238 hours in one semester, which consist of:</p> <ul style="list-style-type: none"> - 46.67 hours for lecture, - 56 hours for structured assignments, - 56 hours for private study, - 79.33 hours for practice
Credit points	6 credit points (equivalent with 9.52 ECTS)
Requirements according to the examination regulations	Students must have attended all classes and submitted all class assignments that are scheduled before the mid and final tests.
Recommended prerequisites	No recommended prerequisites for this course
Module objectives/intended learning outcomes	<p>After completing the course:</p> <p>Knowledge</p> <p>CLO1: Students will be able to examine basic concept of biology, physics, chemistry (K1)</p>

	<p>CLO 2: Students will be able to examine basic concept of biochemistry as an approach in nursing problem intervention (K1)</p> <p>CLO 3: Students will be able to apply basic concept of anatomy as an approach in nursing problem intervention (K1)</p> <p>CLO 4: Students will be able to apply basic concept of phisiology as an approach in nursing problem intervention (K1)</p>
Content	<p>Students will learn about:</p> <ul style="list-style-type: none"> - Basic concept of homeostasis, measurement and units - Basic principles of cell biology and genetics, physics (biomechanism and bioelectricity), chemical (atom, chemical element and reaction), biochemical, nutrition, anatomy and physiology.
Forms of Assessment	<ul style="list-style-type: none"> - Structured assignments (paper): 10% - Individual and group presentation: 20% - Written exam: 60% - Class attendance and participation: 10%
Study and examination requirements and forms of examination	<p>Study and examination requirements:</p> <ul style="list-style-type: none"> - Students must attend 15 minutes before the class starts. - Students must switch off all electronic devices. - Students must inform the lecturer if they will not attend the class due to sickness, etc. - Students must submit all class assignments before the deadline - Students must attend the exam to get final grade. <p>Form of examination: Written exam: Multiple Choice Questions</p>
Media employed	Video and PowerPoint Presentation.
Reading list	<ol style="list-style-type: none"> 1. Cameron, JR, Skofronick J.G., Grant R.M. (2006). Fisika Tubuh Manusia, (edisi kedua). Penerjemah: Lamyarni. Jakarta: PT. Sagung Seto. 2. Drake R., Vogl A.W., Mitchell A.W.M. (2014). <i>Gray Dasar-Dasar Anatomi</i>.Edisi Bahasa Indonesia 1. Churchill Livingstone: Elsevier (Singapore) Pte.Ltd. 3. Gabriel, J.F. (1996). <i>Fisika Kedokteran</i>. Jakarta: EGC. 4. Grodner M., Escott-Stump S., Dorner S. (2016).<i>Nutritional Foundations and Clinical Applications: A Nursing Approach</i>. 6th edition. Mosby:Elsevier Inc 5. Gropper S.S, Smith J.L., Groff J.L. (2004). <i>Advanced nutrition and human metabolism</i>. 4th ed. Wadsworth, Inc. 6. Hall E. (2014). <i>Guyton dan Hall Buku Ajar Fisiologi Kedokteran</i>.Edisi Bahasa Indonesia 12. Saunders: Elsevier (Singapore) Pte.Ltd. 7. Mader SS (2012). <i>Human Biology, 12th edition</i>.USA: The McGraw-Hill Publishing Company. 8. Martini (2001).<i>Fundamentals of anatomy and physiology (5th ed.)</i>. Ch 23, pp 814-844. New Jersey: Prentice-Hall, Inc. 9. Paulsen, D. F. (1996).<i>Basic histology, (3rd ed.)</i>. Ch 17, pp 218-229. Connecticut: Appleton & Lange. 10. Potter, P.A.,Perry, A.G., Stockert P., Hall A. (2014). <i>Essentials for Nursing Practice</i>. 8th Ed. Mosby: Elsevier Inc. 11. Rosdahl, C. B. (1999). <i>Textbook of basic nursing</i>. 7th Ed. Philadelphia: Lippincott Williams & Wilkins. 12. Rohen J.W., Yokochi C., Drecoll E.L. (2002). <i>Atlas anatomi manusia: kajian fotografik tubuh manusia</i> (Y. Joko S., penerjemah).

	<p>Jakarta: penerbit buku kedokteran EGC (sumber asli diterbitkan 2002).</p> <ol style="list-style-type: none">13. Sherwood, L. (2012). <i>Human physiology: From cells to systems</i>, (8th ed.). California: Thomson Learning.14. Tortora, G.J. & Derrickson, B.H. (2011). <i>Principles of anatomy and physiology</i>. New York: Harper Collins Publisher Inc.15. Waugh A., Grant A., Nurachmah E., Angriani R. (2011). <i>Dasar-dasar Anatomi dan Fisiologi Ross dan Wilson</i>. Edisi Indonesia 10. Elsevier (S) Pte Ltd.16. Waugh A., Grant A. (2014). <i>Buku Kerja Anatomi dan Fisiologi Ross and Wilson</i>. Edisi Bahasa Indonesia 3. Churchill Livingstone: Elsevier (Singapore) Pte.Ltd.
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