



# UIN SUNAN KALIJAGA YOGYAKARTA

## FACULTY OF SCIENCE AND TECHNOLOGY

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### Undergraduate Programme in Physics

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### MODULE HANDBOOK

Module Name	Anatomy and Physiology
Module level, if applicable	Bachelor
Code, if applicable	FIS424022
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	5 <sup>th</sup> (Five)
Person responsible for the module	Dr. Nita Handayani, M.Si
Lecturer(s)	Dr. Nita Handayani, M.Si
Language	Indonesia
Relation to curriculum	compulsory course in the third year (5 <sup>th</sup> semester) Bachelor Degree
Type of teaching, contact hours	150 minutes lectures, and 180 minutes structured activities per week.
Workload	Total workload is 136 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam
Credit points	3
Requirements according to the examination regulations	Minimal attendance 75% All assignments are submitted Come to class on time
Recommended prerequisites	No prerequisites stated on
Module objectives/intended learning outcomes	After completing this course, the students: CO 1. Able to master the basic principles of anatomy and physiology of the human body which include the skeletal system, nervous system, respiratory system, digestive system, urinary system, reproductive system, circulatory system, endocrine system, muscular system and human sensory system. CO 2. Able to formulate and analyze scientific studies and research related to the fields of biophysics and medical physics. CO 3. Able to formulate solutions to biophysical problems by deepening or expanding knowledge of the anatomy and physiology of human organs.
Content	Introduction to Human Body Anatomy, Skeletal System, Spinal Cord and Spinal Nerves, Brain and Nervous System, Respiratory System, Digestive System, Cardiovascular System: Blood and Heart, Urinary System, Reproductive System, Circulatory System/Vascular System, Endocrine System, muscular system ( muscular system), Human Sensory System (Senses)
Study and examination requirements and forms of examination	The final mark will be weighted as follows:

	NO	Assessment methods (components, activities)		Weight (percentage)																																										
	1	Final Examination		30%																																										
	2	Mid-Term Examination		30%																																										
	3	Class Activities : Quiz, Homework, etc.		20%																																										
	4	Project Based Learning (PBL)		20%																																										
<p>The final assessment is expressed in the form of a letter value converted from a number value with the following categories:</p> <table border="1"> <thead> <tr> <th>NO</th> <th>Number Value</th> <th>Letter Value</th> <th>NO</th> <th>Number Value</th> <th>Letter Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>≥ 95</td> <td>A</td> <td>7</td> <td>65-69.99</td> <td>B/C</td> </tr> <tr> <td>2</td> <td>90-94.99</td> <td>A-</td> <td>8</td> <td>60-64.99</td> <td>C+</td> </tr> <tr> <td>3</td> <td>85-89.99</td> <td>A/B</td> <td>9</td> <td>55-59.99</td> <td>C</td> </tr> <tr> <td>4</td> <td>80-84.99</td> <td>B+</td> <td>10</td> <td>50-54.99</td> <td>C-</td> </tr> <tr> <td>5</td> <td>75-79.99</td> <td>B</td> <td>11</td> <td>55-34.99</td> <td>D</td> </tr> <tr> <td>6</td> <td>70-74.99</td> <td>B-</td> <td>12</td> <td>&lt;35</td> <td>E</td> </tr> </tbody> </table>					NO	Number Value	Letter Value	NO	Number Value	Letter Value	1	≥ 95	A	7	65-69.99	B/C	2	90-94.99	A-	8	60-64.99	C+	3	85-89.99	A/B	9	55-59.99	C	4	80-84.99	B+	10	50-54.99	C-	5	75-79.99	B	11	55-34.99	D	6	70-74.99	B-	12	<35	E
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Media employed	White-board, LCD Projector, e-learning ( <a href="https://daring.uin-suka.ac.id/">https://daring.uin-suka.ac.id/</a> )																																													
Reading list	<ol style="list-style-type: none"> <li>Gerard J. Tortora, Bryan Derrickson, <i>Principles of Anatomy &amp; Physiology</i>, Fifteenth Edition, John Wiley &amp; Sons, 2017</li> <li>Eric P. Widmaier, Hershel Raff, Kevin T. Strang, <i>Human Physiology: The Mechanisms of Body Function</i>, Fifteenth Edition, McGraw Hill, 2019</li> <li>Valerie C. Scanlon, Tina Sanders, <i>Essentials of Anatomy and Physiology</i>, Fifth Edition, F.A. Davis Company, 2003</li> </ol>																																													

### PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
CO 1		√							
CO 2							√		
CO 3				√					