



UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Education in Biology

MODULE HANDBOOK

Module name:	Laboratory Work in Nutrient and Health			
Module level, if applicable:	Undergraduate			
Code:	BIP 6136			
Sub-heading,if applicable:	-			
Classes,if applicable:	-			
Semester:	Odd			
Module coordinator:	dr. Tutiek Rahayu			
Lecturer(s):	dr. Tutiek Rahayu			
Language:	Bahasa Indonesia			
Classification within the curriculum:	Compulsory subject			
Teaching format / class hours per week during the semester:	50 minutes lectures and 60 minutes structured activities per week.			
Work load:	Total workload is 91 hours per semester which consists of 50 minutes lectures, 60 minutes structured activities, and 60 minutes individual study per weekfor 16 weeks.			
Credit points:	1 SKS (2 ECTS)			
Prerequisites course(s):	-			
Program Learning Outcome	PLO 4. Mastering basic Biology and other relevant knowledge with mathematics and natural sciences. PLO 7. Being able to do independent laboratory work and fieldwork			
Targeted learning outcomes:	After taking the course students are expected to be able to: CO1. Explain laboratory work about nutrition and environmental health, such as fulfilling nutrition in the community and eradicating disease vectors. CO2. Explain the basic techniques of biochemistry laboratory, applying scientific methods to the experimental process and hypothesis testing. CO3. Apply and communicate scientific reasoning and data analysis both in writing and orally. CO4. Understand and practice ethics around scientific research.			
Content:	This course discusses developing work skills in solving nutrition and environmental health problems in the community using the group project method. In addition, the implementation of a diet record and introduction of 10 diseases in the health center where each student lives.			
Study/examachievements:	The final mark will be weight as follow:			
	No	CO	Assessment	Assessment Weight

			Object	Technique	
	1	CO1 to CO4	Observed attitudes, knowledge, and skills	Survey, test, rubrics and manuals	100%
	Total				100%
Forms of media:	Real objects, model, multimedia				
Reference:	<p>Bogert. 2006. <i>Nutrition and Physical Fitness</i>. W.B. Saunders Company, New Yorkidem.</p> <p>Ganong. 1999. <i>Fisiologi Kedokteran</i>. Penerbit Buku Kedokteran EGC. Jakarta.</p> <p>Guyton. 2008 <i>Fisiologi Kedokteran</i>. Penerbit Buku Kedokteran EGC. Jakarta.</p> <p>Marieb, N.M.,2007. <i>Human Anatomy and Physiology</i>. Pearson Education Inc., San Francisco.</p> <p>Soewolo, Basuki S., Yudani, T. 1999. <i>Fisiologi Manusia</i>. IMSTEP JICA, FMIPA UNM, Malang.</p> <p>Stuart and Fax I. 2006. <i>Human Physiology</i>. Mc – Hill, Ney York.</p>				

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1				✓			✓					
CO2				✓			✓					
CO3				✓			✓					
CO4				✓			✓					