

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF SCIENCE EDUCATION

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Bachelor of Education in Science

MODULE HANDBOOK

Module name:	Biophysics Practicum					
Module level, if applicable:	Undergraduate					
Code:	IPA6133					
Sub-heading, if applicable:	-					
Classes, if applicable:	-					
Semester:	6 th					
Module coordinator:	Dr. Dadan Rosana, M.Si					
Lecturer(s):	Didik Setyawarno, M.Pd., M.Si and Joko Sudomo, M.A.					
Language:	Bahasa Indonesia					
Classification within the curriculum:	Compulsory Course					
Teaching format / class hours per week during the semester:	50 minutes lectures and 75 minutes structured activities per week.					
	Total workload is 70,5 hours per semester which consists of					
Workload:	50 minutes lectures, 75 minutes structured activities, and 75					
	minutes individual study per week for 16 weeks.					
Credit points:	1 SKS (1.5 ETCS)					
Prerequisites course(s):	-					
Targeted learning outcomes:	After careful study of this chapter you should be able to do the following: CO1. osmotic pressure on plants, CO2. heat of plant material, CO3. mechanical benefits and the relation of muscles working on human skeletal structure, push-ups, CO4. the influence of environmental temperature on body temperature, CO5. resistance human body, CO6. sound propagation through the skull, blood pressure, CO7. fluid flow in blood transfusions or infusions into blood vessels,					

	COS	and ele	ctrical currents and volt:	ages in fruit					
Content:	CO8. and electrical currents and voltages in fruit This practicum course contains biophysical practicum instructions consisting of ten practicum titles which include: osmotic pressure on plants, heat of plant material, mechanical benefits and the relation of muscles working on human skeletal structure, push-ups, the influence of environmental temperature on body temperature, resistance human body, sound propagation through the skull, blood pressure, fluid flow in blood transfusions or infusions into blood vessels, and electrical currents and voltages in fruit								
Study / exam achievements:	Attitu obse assu The s if the gene of the cours good	rvation and the student is student is ey show aral. The effinal grades. Student is extitude.	essment is carried or and/or self-assessment hat basically every studes given a value of very it significantly comparesult of attitude assessedes, but as one of the ents will pass from this	ut at each of the techniques dent has a good or not good or not good to other sment is not a requirements course if at least technique.	using to the code attitude ood attitudents compone to pass to	the de. de in ent			
	1	CO1, CO2, CO3, CO4, CO5, CO6 and CO7	a. Individual Assignment b. Group Assignment c. Quiz d. Observation e. Portfolio	Presentation / written test	15% 15% 15% 25% 30%				
Forms of media:	Boar	d I CD E	Projector, Laptop/Compu	Total	100%				
Literature:	Martin Zinke-Allmang. (2017). <i>Physics for the Life Sciences,</i> 3rd Edition. Cengage Learning EMEA. New York. Dadan Rosana. (2016). Modul Biofisika. Program Studi Pendidikan IPA, FMIPA, Universitas Negeri Yogyakarta Cromer H.Alam, <i>Physics for the life science</i> , 1977 McGraw Hill, Inc, New York								

				PLO											
	Attitude		Knowledge			Spesific SKill									
	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO
	1		3	1	2	3	4	1	2	3	4	5	6	1	8
CO1								✓		✓			✓		✓
CO2									✓	✓		✓	✓		
CO3								\	✓			✓			✓
CO4									✓		✓	✓		✓	
CO5								\			✓			✓	✓
CO6									✓	✓		✓	✓		
CO7								\		✓			✓		✓
CO8									√	✓		√	√		