

## UNIVERSITAS NEGERI YOGYAKARTA FACULTY OF MATHEMATICS AND SCIENCE DEPARTMENT OF BIOLOGY EDUCATION Colombo 1 Street Yogyakarta 55281 Phone: (0274)565411 Ext. 217, (0274)565411(Administration Office),fax (0274)548203 Website:fmipa.uny.ac.id, E-mail :humas\_fmipa@uny.ac.id

## **Bachelor of Science in Biology**

## MODULE HANDBOOK

Module name:	Plant Cultivation					
Module level, if applicable:	Undergraduate					
Code:	BIM6287					
Sub-heading, if applicable:	-					
Classes, if applicable:	-					
Semester:	Even					
Module coordinator:	Dr. Ir. Suhartini, MS					
Lecturer(s):	Dr. Ir. Suhartini, MS.					
Language:	Indonesian					
Classification within the curriculum:	Elective Course					
Teaching format / class hours	100 minutes lectures, 120 minutes structured activities, and 120					
per week during the semester:	minutes individual studyper week					
	Total workload is 91 hours per semester which consists of 100					
Work load:	minutes lectures, 120 minutes structured activities, and 120					
	minutes individual study per week for 16 weeks.					
Credit points:	2 SKS (3 ECTS)					
Prerequisites course(s):	Plant Systematics, Plant Developmental Biology					
Perogram Learning Outcomes:	<ol> <li>Comprehensively mastering Biology (core biology) to solve problems in the field of Biology (problem-solving) and to underlie the concepts of related sciences</li> <li>Being adaptive, creative, innovative in applying the concepts of Biology and other related fields</li> <li>Being able to work and create jobs/being an entrepreneur in the field of Biology</li> <li>Possessing scientific skills to support the ability to speak in local</li> </ol>					
	national, and international forums					
Course Outcomes	After taking this course, the students have ability to: CO 1. understand and explain the understanding and basics of plant cultivation CO2. understand and explain the conditions of plant growth, plant growth and development CO3. to understand and explain the influence of environmental factors on crop production CO4. understand and explain land management CO5. understand and explain plant nurseries and ways of planting CO6. understand and explain irrigation methods CO7. understand and explain fertilization CO7 understand and explain pest control. disease and plant weeds					

	CO8. understand and explain plant breeding both through pollination and tissue culture CO9. understand and explain the time of harvest, how to harvest and post-harvest handling CO10.elaborate the concept of plant cultivation dan its practice CO11. Communicate the result of individual or communal study Plant cultivation courses develop the ability and skills of the						
Content:	principles of crop cultivation, plant growth requirements, the influence of environmental factors on crop production, land management, plant nurseries, planting, irrigation, fertilization, pest control, plant diseases and weeds, plant propagation through pollination and tissue culture, harvesting and post-harvest handling						
Study/examachievements:	No CO		Assessment	Assessment	Weight		
	1	CO1 to CO6	Observed attitudes , knolwedge, and skills	Survey, test, rubrics and manuals	100%		
	Total 100%						
Forms of media: Reference:	Image: Install       100%         Real objects, model, multimedia       100%         A. Harjadi, Sri Setyati, 1982, Pengantar Agronomi , PT. Gramedia, Jakarta         B. Hasan Basri Jumin, 1991, Dasar-dasar Agronomi , CV. Rajawali, Jakarta         C. Novizan. 2002. Petunjuk pemupukan yang Efektif. Agro Media Pustaka         D. Raharja dan Wahyu Wiryanta. 2003. Aneka Cara Memperbanyak Tanaman. Agro Media         E. Sukman, Y dan Yakup. 2002. Gulma dan Teknik Pengendaliannya. Raja Grafindo Persada.         F. Stephen R. Gliessman. 2006. Agroecology: The Ecology of Sustainable Food Systems, Second Edition.         G. Wudianto, Rini. 1999. Membuat Setek, Cangkok dan Okulasi. Penebar Swadaya.						

## PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
CO1				V							
CO2				V							
CO3				V		V					
CO4				V		V					
CO5				V		V					
CO6				V		V					
CO7				V		V					
CO8				V		V					
CO9				V		V					
CO10				V		V			V		
CO11											V