

Undergraduate Programme in Biology

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MODULE HANDBOOK

Module Name	Plant Breeding	
Module level, if applicable	Bachelor	
Code, if applicable	BIO425078	
Subtitle, if applicable	-	
Courses, if applicable	-	
Semester(s) in which the module is taught	6 th (sixth)	
Person responsible for the module	Satiti Ratnasari, M.Sc	
Lecturer(s)	Satiti Ratnasari, M.Sc	
Language	Indonesia	
Relation to curriculum	Elective course in the third year (6 th semester) Bachelor Degree	
Type of teaching, contact hours	100 minutes lectures, 120 minutes structured activities, 120 minutes individual study, and 170 minutes laboratory practical per week.	
Workload	Total workload is 90,67 hours per semester, which consists of 100 minutes lectures per week for 14 weeks, 120 minutes structured activities per week, 120 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam	
Credit points	3 credits (4,5 ECTS)	
Requirements according to the examination regulations	Students must meet a minimum attendance of 75% of the total meetings to be able to take the final exam.	
Recommended prerequisites	No prerequisites are stated on	
Module objectives/intended learning outcomes	After completing this course, the students: CO 1 able to analyze the concepts, goals and benefits of plant breeding CO 2 able to practice plant breeding techniques CO 3 able to analyze plant breeding techniques	
Content	1. Life cycle, development and growth of plants 2. Plant diversity, domestication and introduction 3. Genetica and heritability 4. Plant breeding methods 5. Hybrid, synthetic and composite varieties 6. Seed production and distribution	
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
	2	Mid-Term Examination
	3	laboratory practical
	4	Class Activities: Quiz, Homework, Presentation etc.

	The final assessment is expressed in the form of a letter value converted from a number value with the following categories: <table><tr><th>NO</th><th>Number Value</th><th>Letter Value</th><th>NO</th><th>Number Value</th><th>Letter Value</th></tr><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><35</td><td>E</td></tr></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 (https://daring.uin-suka.ac.id/)																																										
Reading list	1. Mangoendidjojo, W. 2003. Dasar-dasar Pemuliaan Tanaman. Penerbit Kanisius, Yogyakarta 2. Laila, F., A. Z. A. Alaydrus, I. Umarie, A. Jalil, A. Hakim, I. Sriwahyuni, R. Ismayanti, D. Hervani, Eliyani. 2023. Dasar-dasar Pemuliaan Tanaman. Penerbit GetPress Indonesia 3. Koryati, T., H. Ningsih, I. Erdiandini, M. Paulina, R. Firgiyanto, Junairiah, V. K. Sari, 2022. Pemuliaan Tanaman. Penerbit Yayasan Kita Menulis 4. Lamichhane, S. and S. Thapa. Advances from Conventional to Modern Plant Breeding. <i>Plant Breed. Biotech.</i> 2022; 10: 1-14																																										

PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CO 1				√	√						
CO 2				√	√						
CO 3				√	√				√		