


## MODULE HANDBOOK

	<b>UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME</b>	<b>COURSE CODE: D10D-601010</b>
<b>Module designation</b>	Plant Morphogenesis	
<b>Semester(s) in which the module is taught</b>	6	
<b>Person(s) responsible for the module</b>	1. Dr. Mohamad Nurzaman, M.Si. 2. Dr. Tia Setiawati, M.Si. 3. Dr. Asep Zainal Mutaqin, M.T. 4. Dr. Rusdi, M.Si	
<b>Medium of instruction</b>	Indonesian	
<b>Relation to curriculum</b>	Elective course	
<b>Teaching methods</b>	Lectures, discussions, cooperative learning, and inquiry learning	
<b>Workload</b>	Total workload : 5440 minutes = 90.67 hours  Lectures, discussions, cooperative learning, and inquiry learning : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours	
<b>Credit points</b>	2,00 (3,62 ECTS)	
<b>Required and recommended prerequisites for joining the module</b>	Plant Development Structure	
<b>Module objectives/intended learning outcomes</b>	1. Able to explain the factors that affect morphogenesis 2. Able to explain the stages of growth development 3. Able to explain the differentiation between ontogeny and environment and physiology 4. Able to explain regeneration 5. Able to explain morphogenesis abnormalities	
<b>Contents</b>	In the Plant Morphogenesis course, students learn the factors that influence morphogenesis, stages of plant development, ontogeny and environmental differentiation as well as physiology, regeneration and abnormality.	
<b>Examination forms</b>	Quiz, midterm exam, assignment, and final exam	
<b>Study and examination requirements</b>	The minimum attendance in lectures is 80%. Final grades are evaluated based on Quizzes (15%), Tasks (15%), midterm exams (35%), and final exam (35%)	
<b>Reading lists</b>	1. Sinnott, E.W, 1960, Plant Morphogenesis, McGraw-Hill Book Company, New York, Toronto, London 2. Esau, K. 1977. Anatomy of Seed Plants, 2 nd edition, John Willey & Sons Inc. New York 3. Fahn, A. 1990. Plant Anatomy, 4th edition, Bergamon Press New York. 4. B.M Johri.1984. Embryology of Angiosperm. Springer Verlag. Berlins	