



Module Description/Course Syllabi

Study Program : S1 Undergraduate Program

Faculty of Agriculture

University of Andalas

1. *Course number and name*

PTN611 01 Biology

2. *Credits and contact hours/Number of ECTS credits allocated*

3 credits (2 classes, 1 practice)

3. *Instructors and course coordinator*

Dr. Armansyah, SP. MP.

Dr. Lily Syukriani, SP. MP.

Dr. Dini Hervani SP, MSi

Dr. Haliatur Rahma SSi. MP

Dr. Ir. Nalwida Rozen MP.

Dr. Yulmira Yanti SS.i, MP.

Ir. Martinius, MS.

Obel, SP. MP.

4. *Text book, title, uthor, and year*

1. Albert B., D. Bray, J. Lewis, M. Raff, K. Roberts, and J.D. Watson. 1994. Molecular Biology of The Cell. 3rd Ed. Garland Pub. Inc. New York/London. 1294 pp.
2. Brum G., L. McKane, and G. Karp. 1994. Biology Exploring Live. 2nd Ed. John Wiley & Sons, Inc. New York. 1005 pp.
3. Campbell N.A., J.B. Reece, and L.G. Mitchell. 1999. Biology. 5th Ed. Jilid I-III. Terjemahan oleh Lestari, R., E.I.M. Adil, dan N. Anita. Penerbit Erlangga. Ciracas. Jakarta. 1378 pp
4. Campbell N.A., J.B. Reece, L.A. Urry, M.L. Cain, S.A. Wasserman, P.V. Minorsky, and R.B. Jacjson. 2008. Biology. 8th Ed. Jilid I-III. Terjemahan oleh Damarling Tyas Wulandari. Penerbit Erlangga. Ciracas. Jakarta. 1378 pp.
5. Hartanto N. L. dan I. Sumardi. 2004. Biologi Dasar. Penerbit Swadaya. Jakarta
6. Kimball J.W. 1989. Biology. Jilid I-III. Terjemahan oleh Tjitrosomo, S.S. dan Sugiri, N. Penerbit Erlangga. Jakarta.
7. Purnomo D., Sukaya, M. Rahayu, S. Budiastuti, L. Darsana, D. Saputra. 2014. Petunjuk Praktikum Botani. Lab. Fisiologi Tumbuhan dan Bioteknologi. Fak. Pertanian UNS.

8.	Raven P.H., R.F. Evert, and S.E. Eichhorn. 1992. Biology of Plants. 6th Ed. W.H. Freeman & Co./Worth Pub. 944 pp.
9.	Tjitrosoepomo G. 2007. Morfologi Tumbuhan. UGM Press. Yogyakarta.
5. Specific course information	
A. Brief description of the content of the course (catalog description)	
This course discusses the role of plants in agriculture, living creatures and the origin of life, understanding cells, cell theory and plant cell structure, meiosis and mitosis, plant morphology (cytology, histology of stems, roots and leaves), understanding plant taxonomy, classification/description of plants and microorganisms that disturb the agricultural sector.	
B. Level of course unit (according to EQF: first cycle Bachelor, second cycle Master)	
First Cycle Bachelor	
C. Semester when the course unit is delivered	
Even Semester	
D. Mode of delivery (face-to-face, distance learning)	
Face to face	
6. Intended Learning Outcomes (CPL)	
ILO 1: Able to apply basic agricultural sciences widely in overcoming agricultural problems for sustainable agricultural development (P)	
PI 1 : Explain agricultural sciences related to soil science.	
7. Course Learning Outcomes (CPMK) ex. The student will be able to explain the significance of current research about a particular topic.	
1.	Explain agricultural sciences related to soil science.
8. Learning and teaching methods	
Cooperative learning	
9. Language of instruction	
English	
10. Assessment methods and criteria	
Summative Assessment :	

Tasks : 5%

Quiz : 5 %

Mid Semester : 25%

Final Semester : 25%

Praktikum :30%

Attendance : 5%

Formative Assessment:

Minutes paper