	Module Description/Course Syllabi
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	Study Program : Bachelor Program (S1)
KEDIALAAN ST	Faculty of Agriculture
	University of Andalas
1. Course numbe	
	ULTURAL MICROBIOLOGY
	ontact hours/Number of ECTS credits allocated
3 credits (2 classes, 1 3. Instructors an	<i>practicum)</i> <i>ad course coordinator</i>
Dr. Zurai Resti P. MP	
Ir. Reflin MP.	
Dr. Ir. Darnetty M.Sc	
Dr. Ir. Ujang Khairul N	1P.
	e, outhor, and year
5. Specific cours	
· · ·	ion of the content of the course (catalog description)
	n of microorganisms, the role of microorganisms in agriculture (soil, food
	introduction to types of microorganisms (viruses, bacteria, fungi, algae,
	des), nutrition, development and growth, metabolism of microorganisms (
	nzymes, fermentation, biosynthesis, element cycles), basic genetics of agement, control and utilization of microorganisms.
	agement, control and utilization of incroorganisms.
R Level of cours	e unit (according to EQF: first cycle Bachelor, second cycle Master)
First Cycle Bachelor	e unu (accoraing to Egi : just cycu Bachetor, secona cycu master)
	n the course unit is delivered
Even Semester	
D. Mode of delive	ery (face-to-face, distance learning)
Face to face	
6. Intended Learning	
ILO-1: Able to apply	basic agricultural sciences widely in overcoming agricultural problems for
ILO-1: Able to apply sustainable agricultura	basic agricultural sciences widely in overcoming agricultural problems for al development (P)
ILO-1: Able to apply sustainable agricultura PI 2 : Analyze agricu	basic agricultural sciences widely in overcoming agricultural problems for
ILO-1: Able to apply sustainable agricultura PI 2 : Analyze agricu general.	basic agricultural sciences widely in overcoming agricultural problems for al development (P) Iltural problems using a soil science approach and agricultural sciences in
 ILO-1: Able to apply sustainable agricultura PI 2 : Analyze agricultura general. 7. Course Learning (Course Learning) 	basic agricultural sciences widely in overcoming agricultural problems for al development (P) altural problems using a soil science approach and agricultural sciences in Dutcomes (CPMK) ex. The student will be able to explain the significance
 ILO-1: Able to apply sustainable agricultura PI 2 : Analyze agricultura general. 7. Course Learning C of current research able 	basic agricultural sciences widely in overcoming agricultural problems for al development (P) iltural problems using a soil science approach and agricultural sciences in Dutcomes (CPMK) <i>ex. The student will be able to explain the significance</i> <i>bout a particular topic.</i>
 ILO-1: Able to apply sustainable agricultura PI 2 : Analyze agricultura general. 7. Course Learning C of current research able 	basic agricultural sciences widely in overcoming agricultural problems for al development (P) altural problems using a soil science approach and agricultural sciences in Dutcomes (CPMK) ex. The student will be able to explain the significance
 ILO-1: Able to apply sustainable agricultura PI 2 : Analyze agricul general. 7. Course Learning Conferent research able 2 : Analyze agricultura agricultura 	basic agricultural sciences widely in overcoming agricultural problems for al development (P) altural problems using a soil science approach and agricultural sciences in Dutcomes (CPMK) ex. The student will be able to explain the significance bout a particular topic. and problems using a soil science approach and agricultural sciences in
 ILO-1: Able to apply sustainable agricultura PI 2 : Analyze agricultura general. 7. Course Learning Cof current research able 2 : Analyze agricultura general. 8. Learning and teach LCD & Projector 	basic agricultural sciences widely in overcoming agricultural problems for al development (P) altural problems using a soil science approach and agricultural sciences in Dutcomes (CPMK) ex. The student will be able to explain the significance bout a particular topic. and problems using a soil science approach and agricultural sciences in hing methods
 ILO-1: Able to apply sustainable agricultura PI 2 : Analyze agricultura general. 7. Course Learning (of current research able 2 : Analyze agricultura general. 8. Learning and teach LCD & Projector 9. Language of instructura 	basic agricultural sciences widely in overcoming agricultural problems for al development (P) altural problems using a soil science approach and agricultural sciences in Dutcomes (CPMK) ex. The student will be able to explain the significance bout a particular topic. and problems using a soil science approach and agricultural sciences in hing methods
 ILO-1: Able to apply sustainable agricultura PI 2 : Analyze agricul general. 7. Course Learning Cof current research able 2 : Analyze agricultur general. 8. Learning and teach LCD & Projector 9. Language of instructure Indonesian 	basic agricultural sciences widely in overcoming agricultural problems for al development (P) altural problems using a soil science approach and agricultural sciences in Dutcomes (CPMK) ex. The student will be able to explain the significance bout a particular topic. anal problems using a soil science approach and agricultural sciences in hing methods
 ILO-1: Able to apply sustainable agricultura PI 2 : Analyze agricultura general. 7. Course Learning (of current research able 2 : Analyze agricultura general. 8. Learning and teach LCD & Projector 9. Language of instrue Indonesian 10. Assessment method 	basic agricultural sciences widely in overcoming agricultural problems for al development (P) altural problems using a soil science approach and agricultural sciences in Dutcomes (CPMK) ex. The student will be able to explain the significance bout a particular topic. aral problems using a soil science approach and agricultural sciences in hing methods action
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- 2. UTS
- 3. UAS
- 4. Internship

Formative Assessment:

- 1. Thumb up and thumb down
- 2. Minutes paper