



**PORTFOLIO**  
**Department of Agrotechnology**  
**Faculty of Agriculture**  
**University of Islam Malang**

Subject	Introduction to Agricultural Sciences
Module Level, if available	Undergraduate Study Program of Agrotechnology
Subject Code	MK: MKK3101
Type of course	Basic Science
Credits	2 credits
Semester	1
Prerequisite	Agronomy Basic
Parallel Class	A, B and C
Module Description	Introduction to Agricultural Science discusses the scope of the agricultural sector, both in a broad sense and in a narrow sense to the current face of Indonesian agriculture. Differentiate farming (the farm) with farming as a company (farm business), and explain the main elements of farming to achieve efficient farming
Learning Outcomes	Course Learning Outcomes (CLO) CLO 1: Understanding the theoretical concepts of the Scope of Agriculture and the Agricultural Sector in Indonesia CLO 2: Able to understand the context of Agricultural Resources CLO 3: Able to understand .about Agriculture and Environmental Sustainability CLO 4: Able to Apply Agricultural Economic Principles CLO 5: Able to create business opportunities in the field of crop production
Learning Content	After completing this Subject students are able to: 1. Have good / in-depth knowledge about the Scope of Agriculture and the Agricultural Sector in Indonesia 2. Knowing the context of Agricultural Resources: Land and Land, Capital and Labor Resources and Agricultural Science and Agribusiness 3. Have knowledge and understanding of Agriculture and Environmental Sustainability, Application of Sustainable Agriculture Technology and Models, Development and Transformation Aspects of Agriculture and Agricultural Develop 4. Able to Apply Agricultural Economic Principles, Social and Institutional Aspects in Agriculture 5. Able to create business opportunities in the field of crop production, following developments in post-harvest technology and Build future farms
Aims	1. After taking this course, students are expected to able to explain various things related to Agricultural sciences. 2. Students are able to understand the role of agriculture in life and develop sustainable agriculture.
Teaching Methods	Several methods applied in this course consist of lecturing, assignment, and group presentation. All these methods are applied on 2 parallel classes
Participant	<ul style="list-style-type: none"> <li>• A class: 30 students in total</li> <li>• B class: 29 students in total</li> <li>• C class 27 students in total</li> </ul>

Teaching Attendance	<p>14 meetings were completely held (100%) by lecturer (A, B and C classes)</p> <p>From 30 students, 6 student were below 100% of attendance (A class)</p> <p>From 29 students, 8 student were below 100% of attendance (B class)</p> <p>From 27 students, 10 student were below 100% of attendance (C class)</p>
Evaluation System	<p>Component of assessment on this course consist of regular assignment, midle semester test and final semester test, presence. All these component are then combined to obtain final score. Scoring matrices and question samples are available in Appendix 1 and Appendix 2</p>
Learning Result	<ul style="list-style-type: none"> <li>• Achievement CLO in A Class <ul style="list-style-type: none"> <li>CLO 1 = 89.79 (Excellent)</li> <li>CLO 2 = 89.47 (Excellent)</li> <li>CLO 3 = 89.01 (Excellent)</li> <li>CLO 4 = 90.30 (Excellent)</li> <li>CLO 5 = 89.11 (Excellent)</li> </ul> </li> <li>• Achievement ILO in B Class <ul style="list-style-type: none"> <li>CLO 1 = 84.40 (Excellent),</li> <li>CLO 2 = 84.32 (Excellent),</li> <li>CLO 3 = 84.05 (Excellent)</li> <li>CLO 4 = 84.72 (Excellent)</li> <li>CLO 5 = 83.80 (Excellent)</li> </ul> </li> <li>• Achievement ILO in C Class <ul style="list-style-type: none"> <li>CLO 1 = 72.28 (Excellent),</li> <li>CLO 2 = 72.72 (Excellent),</li> <li>CLO 3 = 72.35 (Excellent)</li> <li>CLO 4 = 74.54 (Excellent)</li> <li>CLO 5 = 74.03 (Excellent)</li> </ul> </li> </ul> <p>Complete achievement on average CLO can be seen on Appendix 3</p>
Statistical Distribution	<ul style="list-style-type: none"> <li>• A Class, score distribution: A = 10 students (33.33%), B = 18 students (60%), C = 2 student (6.67%) and Failed = 0 students (0%)</li> <li>• B Class, score distribution: A = 5 students (17,24%), B = 23 students (79.31%) and Failed = 1 students (3.45%)</li> <li>• C Class, score distribution: A = 5 students (18,52%), B = 10 students (37.04%), C = 7 student (25.93%) and Failed = 5 students (18.52%)</li> </ul> <p>Complete achievement on each per student can be seen on Appendix 4</p>
Teaching Observation	<p>Materials were delivered in Indonesia. The student could understand the materials well.</p> <p>In A Class: there were 3 students poor on both CLO 1, 2, 3,</p>

	4 dan 1 students poor on both CLO 2, 4 In B Class: there were 1 students poor on CLO 1, CLO 4 dan CLO5, 1 students poor on CLO 2 and CLO 4, 1 students poor on CLO 1, CLO 2,CLO 3, CLO 4 and CLO 5 In B Class: there were 3 students poor on CLO 1, 1 students poor on CLO 2, CLO 3, CLO 4, and CLO 5, 5 students poor on CLO 1, CLO 2,CLO 3, CLO 4 and CLO 5
Learning Constraints	A, B and C Class: Students are less concerned in following lessons and slow in doing assignments
Recommendation	A, B and C Class: Paying more attention for students who hardly understand the materials and doing assiment

### Appendix 1. Scoring Matrix

Nomenclature	Weight	Final Score	
		Letter Mark	Score average
Assignment	20%	A	80 – 100
Midle semester test	20%	B	70 - <80
Final semester test	20%	C	55 - <70
Practice	30%	D	50 - < 55
Presence	10%	E	0 - <50

### Appendix 2. Question samples

1. Explain the meaning of agriculture, farmers and farming? (to echieve CLO 1)
2. Explain about agricultural resources from the aspect of soil physical properties? (to echieve CLO 2)
3. Explain the problems and challenges of Indonesian agriculture! (to echieve CLO 3)
4. Explain the steps of planning a farming business! (to echieve CLO 4)
5. Explain how to harvest and post-harvest handling. (to echieve CLO 5)

**Appendix 3. Achievement of CLO**  
**A Class**

<b>Meetings</b>	<b>CLO 1 (%)</b>	<b>CLO 2 (%)</b>	<b>CLO 3 (%)</b>	<b>CLO 4 (%)</b>	<b>CLO 5 (%)</b>
1,	88.76				
2,	90.80				
3,		89.64			
4,		87.96			
5,		90.80			
6,			89.16		
7,			89.40		
8,			87.64		
9,			89.84		
10,				91.00	
11,				89.60	
12,					88.16
13,					90.40
14,					88.76
<b>Average</b>	<b>89.78</b>	<b>89.47</b>	<b>89.01</b>	<b>90.30</b>	<b>89.11</b>
Predicate	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT

**B Class**

<b>Meetings</b>	<b>CLO 1 (%)</b>	<b>CLO 2 (%)</b>	<b>CLO 3 (%)</b>	<b>CLO 4 (%)</b>	<b>CLO 5 (%)</b>
1,	84.24				
2,	84.56				
3,		84.32			
4,		83.48			
5,		85.16			
6,			84.76		
7,			84.52		
8,			82.80		
9,			84.12		
10,				85.16	
11,				84.28	
12,					83.08
13,					84.28
14,					84.04
<b>Average</b>	<b>84.40</b>	<b>84.32</b>	<b>84.05</b>	<b>84.72</b>	<b>83.80</b>
Predicate	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT

### C Class

Meetings	CLO 1 (%)	CLO 2 (%)	CLO 3 (%)	CLO 4 (%)	CLO 5 (%)
1,	73.20				
2,	71.36				
3,		73.40			
4,		72.96			
5,		71.80			
6,			72.08		
7,			73.08		
8,			72.00		
9,			72.24		
10,				75.48	
11,				73.60	
12,					75.52
13,					72.52
14,					74.04
<b>Average</b>	<b>72.28</b>	<b>72.72</b>	<b>72.35</b>	<b>74.54</b>	<b>74.03</b>
Predicate	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT

### Standard

Std num-based AI		Weighted avg LO based AI	
70 <= AI	HIGH	70 <= AI	EXCELLENT
60 <= AI < 70	MEDIUM	60 <= AI < 70	SATISFACTORY
50 <= AI < 60	LOW	50 <= AI < 60	DEVELOPING
AI < 50	VERY LOW	AI < 50	UNSATISFACTORY

## Appendix 4. Achievement on each per student A Class

No.	NMP	Nama	CLO 1		CLO 2		CLO 3		CLO 4		CLO 5		Rata-Rata	Nilai Akhir	Kategori	Keterangan
			100%	80%	100%	80%	100%	80%	100%	80%	100%	80%				
1	21901031001	WINDI TRI WAHYUNI	100	100	100	100	100	100	100	100	100	100	84	84	B	
2	21901031002	VICKY PRADANA PUTRA	100	100	100	100	100	100	100	100	100	100	84	84	B	
3	21901031003	IMAM MULARIF	100	100	100	100	100	100	100	100	100	100	84	84	B	
4	21901031004	HA YATUN NUFUS	100	100	100	100	100	100	100	100	100	100	84	84	B	
5	21901031005	BAGAS ADITYA SYAHPUTRA	100	100	100	100	100	100	100	100	100	100	84	84	B	
6	21901031006	M. NADHIM ARDIANSYAH	100	100	100	100	100	100	100	100	100	100	84	84	B	
7	21901031007	IMRA`TULHASANAH	100	100	100	100	100	100	100	100	100	100	84	84	B	
8	21901031008	ALIFIYAH FIRANDA PUTRI	100	100	100	100	100	100	100	100	100	100	84	84	B	
9	21901031009	NADYA VIOLITTA ANANDA	100	100	100	100	100	100	100	100	100	100	84	84	B	
10	21901031010	VIVIN HAFIDATUR ROFT A	100	100	100	100	100	100	100	100	100	100	84	84	B	
11	21901031011	BONA SIROIS	100	100	100	100	100	100	100	100	100	100	84	84	B	
12	21901031012	DODIK PRAMUDIA	100	100	100	100	100	100	100	100	100	100	84	84	B	
13	21901031013	ALIFIA WILDA AMALIA PU	100	100	100	100	100	100	100	100	100	100	84	84	B	
14	21901031014	MOHAMMAD SHOLEHUDDIN	100	100	100	100	100	100	100	100	100	100	84	84	B	
15	21901031015	VIRA YUNIA H. SANI	100	100	100	100	100	100	100	100	100	100	84	84	B	
16	21901031016	MAYADA FONI NURDEA	100	100	100	100	100	100	100	100	100	100	84	84	B	
17	21901031017	DIPO DWITANTO AMIR PUT	100	100	100	100	100	100	100	100	100	100	84	84	B	
18	21901031018	SUCI RAMADHANI	100	100	100	100	100	100	100	100	100	100	84	84	B	
19	21901031019	NAVILA FIRDIANI INANDA	100	100	100	100	100	100	100	100	100	100	84	84	B	
20	21901031020	ELISA OKTA ARGARENZA	100	100	100	100	100	100	100	100	100	100	84	84	B	
21	21901031021	KHOLIFATUL JANNAH	100	100	100	100	100	100	100	100	100	100	84	84	B	
22	21901031022	MOHAMMAD MAS`UD KHLAKIM	100	100	100	100	100	100	100	100	100	100	84	84	B	
23	21901031023	MOCH DIMAS FITROH ROHM	100	100	100	100	100	100	100	100	100	100	84	84	B	
24	21901031024	FIRZANAH NAHWAH	100	100	100	100	100	100	100	100	100	100	84	84	B	
25	21901031025	AMUKSA BHIYANGSAETO	100	100	100	100	100	100	100	100	100	100	84	84	B	
26	21901031026	AMANDA REHA ZAHNAN	100	100	100	100	100	100	100	100	100	100	84	84	B	
27	21901031027	AINUN NISA PUSPITASARI	100	100	100	100	100	100	100	100	100	100	84	84	B	
28	21901031028	EKO WAHYU WIDIANTO	100	100	100	100	100	100	100	100	100	100	84	84	B	
29	21901031029	FAIDDATUN NISA	100	100	100	100	100	100	100	100	100	100	84	84	B	
30	21901031030	HADHARATI MAR`I ROHMIT	100	100	100	100	100	100	100	100	100	100	84	84	B	

No.	NMP	Nama	CLO 1	CLO 2	CLO 3	CLO 4	CLO 5
1	21901031001	WINDI TRI WAHYUNI	64.00	66.00	62.50	65.00	65.33
2	21901031002	VICKY PRADANA PUTRA	74.50	66.67	70.75	67.50	71.33
3	21901031003	IMAM MULARIF	62.50	60.00	63.75	67.50	58.33
4	21901031004	HA YATUN NUFUS	63.00	66.67	61.25	67.50	62.00
5	21901031005	BAGAS ADITYA SYAHPUTRA	75.00	74.33	75.25	76.50	73.33
6	21901031006	M. NADHIM ARDIANSYAH	74.50	76.33	75.25	78.00	74.67
7	21901031007	IMRA`TULHASANAH	77.00	78.67	78.00	79.00	77.33
8	21901031008	ALIFIYAH FIRANDA PUTRI	76.50	73.67	73.25	73.50	74.33
9	21901031009	NADYA VIOLITTA ANANDA	75.50	74.33	75.50	75.50	74.67
10	21901031010	VIVIN HAFIDATUR ROFT A	76.50	75.67	74.50	73.50	76.67
11	21901031011	BONA SIROIS	78.00	78.67	79.75	79.00	78.00
12	21901031012	DODIK PRAMUDIA	78.00	78.67	78.00	78.00	78.00
13	21901031013	ALIFIA WILDA AMALIA PU	77.00	78.67	78.50	79.00	77.33
14	21901031014	MOHAMMAD SHOLEHUDDIN	79.00	78.67	77.50	79.00	78.67
15	21901031015	VIRA YUNIA H. SANI	74.50	73.33	74.00	73.50	74.33
16	21901031016	MAYADA FONI NURDEA	77.00	73.67	74.00	75.50	74.67
17	21901031017	DIPO DWITANTO AMIR PUT	74.50	75.33	74.00	77.00	74.00
18	21901031018	SUCI RAMADHANI	78.00	79.33	77.00	80.00	78.00
19	21901031019	NAVILA FIRDIANI INANDA	73.50	73.33	72.25	73.50	72.33
20	21901031020	ELISA OKTA ARGARENZA	74.00	74.33	72.25	77.00	73.67
21	21901031021	KHOLIFATUL JANNAH	78.00	80.67	79.50	80.00	80.00
22	21901031022	MOHAMMAD MAS`UD KHLAKIM	76.00	76.00	75.00	76.00	76.67
23	21901031023	MOCH DIMAS FITROH ROHM	76.50	76.33	76.25	75.50	76.33
24	21901031024	FIRZANAH NAHWAH	77.00	78.00	75.50	77.00	77.33
25	21901031025	AMUKSA BHIYANGSAETO	75.00	74.33	74.75	75.50	74.33
26	21901031026	AMANDA REHA ZAHNAN	74.50	74.00	74.00	75.00	74.33
27	21901031027	AINUN NISA PUSPITASARI	77.00	74.67	74.50	75.50	76.00
28	21901031028	EKO WAHYU WIDIANTO	74.50	75.33	76.25	76.50	74.00
29	21901031029	FAIDDATUN NISA	75.50	73.00	74.25	74.50	73.67
30	21901031030	HADHARATI MAR`I ROHMIT	78.00	78.00	78.00	77.00	78.00



