	FARMING S	YSTE	M AND INNOVATION						
1	Course Title:	FARMIN	IG SYSTEM AND INNOVATION						
2	Course Code:	TRE534	0						
3	Type of Course:	Optional							
4	Level of Course:	Second	Cycle						
5	Year of Study:	1							
6	Semester:	2							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:								
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Doç. Dr.	İ.Bülent Gürbüz						
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:	bulent@	uludag.edu.tr						
17	Website:								
18	Objective of the Course:	To provide information about the systems used in agriculture and technological developments							
19	Contribution of the Course to Professional Development:	Current datas are taught							
20	Learning Outcomes:								
		1	general Knowledge about farming system						
		2	General information about new technology accumulation in agriculture						
		3	General information about new communication skills in agriculture						
		4	Knowledge management systems						
		5	adoption of innovations						
		6	ability to learn and apply agricultural extension approaches;						
		7	Acquiring the ability to decide and use the methods to be used in the conduct of publication studies;						
		8	Gaining the ability to provide services in rural areas with the skills of preparing, implementing and evaluating extension programs;						
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical		Practice						
1	farming system reseach								
2	farming system reseach								
3	farming system reseach								
4	farming system reseach								

5	farming system reseach									
6	farming system reseach									
7	farming system reseach									
8	assigment									
9	assigment									
_	-									
10	assigment									
11	assigment									
12	assigment									
13	assigment									
14	assigment									
22	Textbooks, References and/or Other Materials:	G aa E pp A E K V U O O E	Berth6 AL, Bloktand A, Bouar6 S, DiaUo B, Diarra MM, Geerling C, Mariko F, N'Djim H and Sanogo B (1991) Profil d'environnement Mali-Sud. Etat des ressources naturelles et potentialit6s de d6veloppement. IER, Bamako, Mali/KIT, Amsterdam, Pays Bas Brammer H and Clayton DB (1973) Detailed soil survey Kataba Valley Research sub-Station, Western Province. Soil Survey Report no 8. Soil Survey Unit, Land Use Services Division of the Ministry of Rural Development Brams E (1971) Continuous cultivation of West African softs: organic matter diminution and effects of applied lime and phosphorus. Plant and Soil							
Activit	tes	·	Number	Duration (hour)						
Theore	ical	(1	6)300, OECD, Paris, F	8900e	42.00					
Practic	als/Labs		0	0.00	0.00					
Self stu	dy and preperation	ir T	Agriculture Vol 3. Roy	alo Toopical Institute	. ஃ ஸ்ரூerdam,					
Homev	vorks		0	0.00	0.00					
Project	\$	E	udelman A and Huijsm	ap. (1991) Towar	\$020 Systems					
Field S	tudies		0	0.00	0.00					
Midterr	n exams	e	nyıronmental manager aricultural developmen	rentun 13. 47. Doyal	0.00					
Others			0	0.00	0.00					
Final E	kams	2	Royal Tropical Institution	e, Amsterdam, The	Netherlands					
Total V	Vork Load				182.00					
Total w	ork load/ 30 hr	18	outn-west Cote a Ivoire vstems 11(2): 10112	(Ivory Coast). Agr	orestry 6.07					
ECTS	Credit of the Course	18	NOCHIO 1 IIZI. 10112		6.00					
		H S N C ir T C 1 te E h S F ttl S F	Infanagement in southerh iviali. In: Savenije H and Huijsman A, eds, Making Haste Slowly. Strengthening Local Environmental Management in Agricultural Development, pp 131148. Development-oriented Research in Agriculture, Vol 2. Royal Tropical Institute, Amsterdam, The Netherlands D'Hoore J (1964) La carte des sols d'Afrique au 1/5000000. Commission de coop6ration technique en Afrique. Publication n ° 93. Lagos, Nigeria Ewe1 JJ (1986) Designing agricultural ecosystems for the humid tropics. Annu Rev Ecol and Syst 17:245258 FAO/UNESCO/ISRIC (1988) FAO-UNESCO Soil Map of the World; revised legend. World Soil Resources Report 60, FAO, Rome, Italy Felker P (1978) State of the art: Acacia albida as a complementary permanent intercrop with							

annual crops. USAID Grant no 211 (d). Department of Soil and Environment Sciences. University of California, Riverside, USA Floor J. Kimaro DN. Vlot JE and Kekem AJ van (1990) Soil fertility aspects and sustainability of the traditional farming system in Bukoba District, Tanzania. Agricultural Research Institute, Mlingano, Tanga, Tanzania. Paper prepared for the 10th Annual General Meeting of the Soil Science Society of East Africa, Arusha, December 1990 Friedrich KH (1968) Coffee-banana holdings at Bukoba. The reasons for stagnation at a higher level. In: Ruthenberg H, ed, Smallholder Farming and Smallholder Development in Tanzania, pp 177--212. IFO-Institut fiir Wirtschaftsforschung, Munich, Germany Frissel MJ (1978) Cycling of Mineral Nutrients in Agricultural Ecosystems. Elsevier, London, UK Ganry F (1980) The importance of cultural methods to increase the quantity of nitrogen fixed by a groundnut crop in the Soudano-salaelian zone of Senegal. In: Organic Recycling in Africa. FAO Soils Bulletin n o 43. Rome, Italy Gils H van (1988) Environmental profile. Western Province, Zambia. ITC, Enschede, The Netherlands/Provincial Planning Unit, Mongu, Zambia Hart RD (1980) A natural ecosystem analog approach to the design of a successional crop system for tropical forest environments. Biotropica 122 (supplement): 73--82 Hijkoop J and Poel P van der (1989) D'un am6nagement anti-6rosif des champs h la gestion de l'espace rural. Bulletin KIT no. 317. KIT/CMDT/IER, Amsterdam, The Netherlands

23 Assesment

TERM LEARNING ACTIVITIES NUMBE R Midterm Exam 0 0.00 Quiz 0 0.00 Home work-project 0 0.00 Final Exam 1 100.00 Total 1 100.00 Contribution of Term (Year) Learning Activities to Success Grade Contribution of Final Exam to Success Grade 100.00 Total 100.00 Measurement and Evaluation Techniques Used in the Course Total It is programmed in the output-based education and training program.									
Quiz O	TERM LEARNING ACTIVITIES		WEIGHT						
Home work-project 0 0.00 Final Exam 1 100.00 Total 1 100.00 Contribution of Term (Year) Learning Activities to Success Grade Contribution of Final Exam to Success Grade 100.00 Total 100.00 Measurement and Evaluation Techniques Used in the It is programmed in the output-based education and	Midterm Exam	0	0.00						
Final Exam 1 100.00 Total 1 100.00 Contribution of Term (Year) Learning Activities to Success Grade Contribution of Final Exam to Success Grade 1 100.00 Total 1 100.00 In the lit is programmed in the output-based education and	Quiz	0	0.00						
Total 1 100.00 Contribution of Term (Year) Learning Activities to Success Grade 0.00 Contribution of Final Exam to Success Grade 100.00 Total 100.00 Measurement and Evaluation Techniques Used in the It is programmed in the output-based education and	Home work-project	0	0.00						
Contribution of Term (Year) Learning Activities to Success Grade Contribution of Final Exam to Success Grade 100.00 Total Measurement and Evaluation Techniques Used in the It is programmed in the output-based education and	Final Exam	1	100.00						
Success Grade Contribution of Final Exam to Success Grade 100.00 Total 100.00 Measurement and Evaluation Techniques Used in the It is programmed in the output-based education and	Total	1	100.00						
Total 100.00 Measurement and Evaluation Techniques Used in the It is programmed in the output-based education and		es to	0.00						
Measurement and Evaluation Techniques Used in the It is programmed in the output-based education and	Contribution of Final Exam to Success Grade)	100.00						
	Total		100.00						
	· · · · · · · · · · · · · · · · · · ·								

24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16														
ÖK1	3	3	4	3	4	3	3	0	0	0	0	0	0	0	0	0
ÖK2	3	3	5	5	5	2	4	0	0	0	0	0	0	0	0	0

ÖK3	2	4	5	5	5	4	3	0	0	0	0	0	0	0	0	0
ÖK4	3	3	5	3	2	3	3	0	0	0	0	0	0	0	0	0
ÖK5	4	4	2	3	3	3	4	0	0	0	0	0	0	0	0	0
ÖK6	3	3	3	3	4	3	5	0	0	0	0	0	0	0	0	0
ÖK7	2	3	2	2	2	2	3	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3	3 Medium		4 High			5 Very High					