A. Basic information		
Code:	Course title: **Principles of Agronomy**	Obligatory course
Programs on which the course is given: All programs.		
Department offering (responsible) for the programs: All Dept.		
Department offering (teaching) the course: Agronomy		
Academic year:	**First year**	
Semester:	**First**	
Units:	**4 = Lecture (2) + Practical (2)**	
Date of specification approval:	**7/10/ 2013**	

B. Professional Information	
1. Overall Aim of Course:	The aim of the course is to ensure that students develop knowledge, understanding and skills related to crop origin, classification, environmental factors, seed bed preparation, sowing methods, fertilization, irrigation, harvesting process, weed control and principles of crop breeding.
2. Intended learning Outcomes (ILOs)	
a- Knowledge and Understanding:	a1- Identify different ways for crop classification.
	a2- Know the environmental factors affecting crop growth.
	A3- Identify different types of seed bed preparation and sowing methods .
	A4- Know the basis fertilization and irrigation of different field crops.
	A5- Identify different ways of weed control in field crops.
	A6- recognize different methods of crop breeding.
b- Intellectual skills	b1- Choose the appropriate sowing methods.
	b2- Determine the best manner for fertilization and irrigation different field crops.
	b3- Determine the best date for crop harvest.
	b4- Solve problems related to crop production

c- Professional and practical skills	c1- Use the appropriate sowing method for different field crops.
	c2- Apply different cultural practices during growth season.
	c3- Keep plant density at optimum level.
d- General and transferable skills	d1- Manage time properly.
	d2- Use computer skills in statistical analysis.
	d3- Solve problems in agricultural experiments.

3. **Content:**

Topic	Lecture	Hours	Lab
Introduction and origin of field crops	1	2	2
Classification of field crops	2	2	2
Distribution of field crops	3	2	2
Environmental condition affecting crop growth	4-6	6	6
Tillage operations	7	2	2
Methods of planting	8	2	2
Crop management after sowing	9- 10	4	4
Harvest	11	2	2
Crop rotation	12	2	2
Weeds	13	2	2
Principles of crop breeding	14	2	2
Total		**28**	**28**

4. Teaching and Learning Methods:	4.1 Classroom lectures. 4.2 Assignment. 4.3 Field based activities. 4.4 Lab.
5. Student Assessment Methods:	5.1 Final term exam. 5.2 Oral exam. 5.3 practical exam. 5.4 Semester work. 5.5 Reports.

6. Assessment Schedule:	Assessment 1 : final exam , week 16 Assessment 2: Oral exam, week 14 Assessment 3: Practical exam, week 15 Assessment 4: semester work week4& 8 Assessment 5: Mid- term exam, week 6
7. Weighting of Assessment:	Final term examination 60% Oral exam 10% Practical exam 15% Semester work & reports 10% Mid- term exam 5% Total 100%
8. List of References:	
8.1 Course Notes:	Prepared by professors of the course.
8.2 Essential Books (Text Books):	Martin, J.H., W.H. Leonard and D.L. Stamp (1976): Principles of field crop production. Mac Millan publishing. Co. Inc. New York, USA
8.3 Recommended Books:	Chandrasekaran, B., K. Annadurai, and E. Somasundaram, (2005). A textbook of agronomy. New Age International Limited, Publicatyions. New Delhi, Bangalore. Chennai, Mumbai.
8.4 Periodicals, web Sites:	Agronomy Journal, Crop Science, European Journal of Agronomy, Moshtohor Annals of Agric., Sci. http://www.agri.ankara.edu.tr/fcrops/1289__AGRONOMI_METIN_KITABI.pdf
9. Facilities required for teaching and learning:	- Equipment and crops models in a small scale. - Library up to date text books.

Course Coordinator **Head of Department**

Prof. Dr. Sedhom Asaad **prof. Dr.Mohamed salwah**

Date: