Palestine Technical University -Kadoorie
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جامعة فلسطين التقنية – خضوري
دائرة الجودة والنوعية
طولكرم- ص.ب 7
هاتف: 09/2671026 -09/2677923
فاكس: 09/2677922
بريد إلكتروني: quality@ptuk.edu.ps

Course Specification Template

1. General information about Instructor:

Name	**Dr. Basel Natsheh**			**Class Time & Office Hours**				
Phone	Internal	1802	Day	SUN	MON	TUE	WED	THU
	External	0599368367						
Mobile			Class Time	09-10		09-10		09-10
Instructor's E-mail			Class Room	E322		E322		E322
			Office Hours	8-9		11-12		8-9

2. General information about the Course

No	Requirements						
1	Course Title	Introduction in farming systems and sustainable agriculture					
2	Course code & Number	16010204					
3	Credit hours	Theo. (CH): 3			Practical (CH): 0		
4	Faculty	Faculty of agriculture science and technology					
5	Department / Division that offers the course:	Environment and sustainable agriculture					
6	Course type	Compulsory			Elective		
		Uni. ☐	Fac. ☐	Dep. ■	Uni. ☐	Fac. ☐	Dep. ☐
7	Level and Semester	(Third session 2nd year), 2017-2018					
8	Prerequisite(s) – If any	Ecology					
9	Co-requisite(s) – if any	Principle in soil science					
10	Program/programs for it/them the course is offered						
11	Instruction Medium:	English ■			Arabic ☐		

3. Course description:

A general introduction to contemporary sustainable farming systems through a study of the history of food production in the world and its relevance to the development of ecological agriculture. Students will learn about the ethical, economic, environmental and social dimensions of agricultural sustainability. It will identify sustainable food production systems such as organic farming, bio-agriculture and sustainable agriculture.

4. General Course Objectives

On successful completion of this course the student will be able to achieve the following objectives:

1. To impart knowledge to the students on the fundamentals of farming systems and sustainable agriculture.
2. To study the various components of sustainable farming systems.
3. Learn the fundamental principles of farming systems and sustainable agriculture and how to improve the economic condition of the farmer.
4. **How sustainable agriculture is** to develop farming systems that are productive and profitable, conserve the natural resource base, protect the environment, and enhance health and safety, and to do so over the long-term.

5. Intended Learning Outcomes/ILO's (please specify the learning outcomes of the course as outlined below):

A) Knowledge and understanding

Learn the fundamental principles of farming systems and sustainable agriculture and how to improve the economic condition of the farmer.

B) Intellectual/Cognitive skills

Training the students on a sustainable Agriculture as a system of agriculture that is committed to maintain and preserve the agriculture base of soil, water , and atmosphere ensuring future generations the capacity to feed themselves with an adequate supply of safe and wholesome food'

C) Subject specialization and practical skills

This course gives the student a good experience to deal with the factors that make up the environment and to preserve and sustain it for future generations

D) General and transferable skills

6. Topics covered and Calendar:

A. Theoretical parts (Please state the titles of the subjects you intend to cover each week)

Number	Topics	Number of hours
1.	Introduction to sustainable agriculture	
2.	Current concept of sustainable agriculture	
3.	Elements of sustainability	
4.	Factors affecting ecological balance and sustainability of agricultural resources	
5.	Salinity	
6.	Deforestation	First exam
7.	Effects - social, economic and crop production	
8.	Environmental pollution	

9.	Potential Effects of Greenhouse effect or Global Warming	
10.	Fertilizer as a source of pollution and control measures	
11.	Pesticides as a source of pollution and control measures	Second exam
12.	Management of natural resources (soil, water, vegetation and energy)	
13.	Pest and disease management	
14.	Sustainable agriculture systems	
15.	Organic farming	

B. Practical part (Please state the titles of the experiments you intend to cover each week)

Number	Experiment	Number of weeks
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

7. Student assessment methods based on ILO,s

No	Assessment method	Week	Mark	Percentage to overall mark
1.	First Exam	5	25	25/100
2.	Second Exam	10	25	25/100
3.	Mid-term Exam (if any)	--	--	--
4.	Coursework	--	10	10/100
5.	Final Exam	15	40	40/100

8. References and other resources

A. Recommended Textbook(s): two maximum

1. Agricultural Sustainability – Principles, Processes and Prospects. Food Products Press, New York. Saroja Raman. 2006.
2. Purohit, S.S. 2006. Trends in Organic Farming in India. Agrobios (India), Jodhpur.
3. Dahama, A.K. 2007. *Organic Farming for Sustainable Agriculture*. Agrobios (India), Jodhpur.

B. Other references

1.
2.

C. Electronic resources, Websites related to the course

1. Australian Finnsheep Breeders Association, The Secretary, 'The Haven',Waihemo. Rd, Murringo NSW 2594 ,Australia ,Internet: http://www.finnsheep.asn.au/

2. http://sanstandards.org/sitio/

Name & signature of Head of department/ program leader

Name: Dr. Basel Natsheh signature: …… Date: 15/9/2017

Name & signature of Quality rep. in your faculty

Name: …… signature: ……Date: …….

Course Tutor's name and signature

Name: Dr. Basel Natsheh signature: ……Date: …….