

Course Name (English)	HORTICULTURE IRRIGATION TECHNOLOGY APPROVED				
Course Code	AGA648				
MQF Credit	3				
Course Description	The course will introduce the students to the principles of irrigation and their importance in crop production. Key components of irrigation system such as water source, pump and distribution system are highlighted. The course exposes the student about irrigation technologies used in various cropping systems. It covers the concept of each irrigation methods including the operation systems and applications.				
Transferable Skills	 Reflective Learner - Demonstrate ability to identify and articulate self skills, knowledge and understanding confidently and in a variety of contexts. Effective Communicator - Demonstrate ability to communicate clearly and confidently, and listen critically. Systematically Inquisitive - Demonstrate ability to investigate problems and provide effective solutions. 				
Teaching Methodologies	Lectures, Blended Learning, Lab Work, Field Trip				
CLO	 CLO1 Identify the irrigation principles and the technology used in various cropping systems. CLO2 Determine the amount of irrigation water for different crops CLO3 Display the operation of irrigation systems and their maintenance CLO4 Justify the various irrigation system layout 				
Pre-Requisite Courses	No course recommendations				
Topics					
1. Introduction to In 1.1) N/A	rigation				
2. Irrigation Principles 2.1) N/A					
3. Surface Irrigation Technology 3.1) N/A					
4. Sub-Irrigation Technology 4.1) N/A					
5. Sprinkler Irrigation Technology 5.1) N/A					
6. Micro-irrigation / Drip Irrigation Technology 6.1) N/A					
7. Fertigation Technology 7.1) N/A					

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of					
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO	
	Group Project	Practical skills	5%	CLO3	
	Group Project	n/a	15%	CLO4	
	Online Quiz	n/a	10%	CLO2	
	Test	Online Test	20%	CLO1	
Reading List	Recommended Text Ali, Mar 1-44 Kee Des NSV 978 Reference Book R. K Eng 978 Lan Mic Mar Else Hof Ellie Sys	Ali, M.H. 2011, Practices of Irrigation & On-farm Water Management Springer New York 10013, USA [ISBN: -4419-7636-9] (eesen Larry E 2013, The Complete Irrigation Workbook: Design, Installation, Maintenance and Water Management., VSW Department of Primary Industries Australia [ISBN: 178174256787] 			
Article/Paper List	This Course does not have any article/paper resources				
Other References	This Course does not have any other resources				