UNIVERSITI TEKNOLOGI MARA

AGA618: NURSERY PLANNING AND GREENHOUSE TECHNOLOGY

Course Name (English)	NURSERY PLANNING AND GREENHOUSE TECHNOLOGY APPROVED
Course Code	AGA618
MQF Credit	3
Course Description	The course will introduce the students to the principles of nursery planning and the application of greenhouse technology. It focused on the understanding of various types of greenhouse design and their specifications, equipment for control environment, calculation and estimation, nursery and greenhouse practices including the cultivation techniques and irrigation systems, and later the application of technologies. The later phase of study focuses on selection and combination of various form of technology and systems requirements for the proper and suitable development of nursery and greenhouse.
Transferable Skills	1. Reflective Learner - Demonstrate ability to identify and articulate self skills, knowledge and understanding confidently and in a variety of contexts. 2. Effective Communicator - Demonstrate ability to communicate clearly and confidently, and listen critically. 3. Systematically Inquisitive - Demonstrate ability to investigate problems and provide effective solutions.
Teaching Methodologies	Lectures, Blended Learning, Field Trip, Practical Classes
CLO	CLO1 Explain the principles of nursery planning and greenhouse technology CLO2 Display the current technology and management practice conducted in nursery and greenhouse operation CLO3 Relate the principles of design and technology with operation and management of nursery and greenhouse CLO4 Construct the approach of nursery planning and greenhouse technology for horticultural management practices
Pre-Requisite Courses	No course recommendations

Topics
1. Introduction 1.1) N/A
2. Greenhouse Construction 2.1) N/A
3. Equipment for Heating, Cooling and Environmental Modification 3.1) N/A
4. Nursery and Greenhouse Practices 4.1) N/A
5. Nursery Planning and Production 5.1) N/A
6. Current Issues and Technological Development in the Nursery and Greenhouse 6.1) N/A

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment

Assessment Type	Assessment Description	% of Total Mark	CLO
Group Project	n/a	20%	CLO3
Online Quiz	n/a	10%	CLO2
Test	Online test	30%	CLO1

Reading List

Recommended Text

- **G. N. Tiwari 2003, *Greenhouse Technology for Controlled Environment*, Alpha Science Int'l Ltd. [ISBN: 1-84265-135-8]**

Reference Book Resources

- **Robert A. Aldrich,John W. Bartok 1994, *Greenhouse Engineering*, Natural Resources [ISBN: 0-935817-57-3]**
- **Mohammud Che Husain,Mohd. Yusof Abdullah,Abd. Jamil Zakaria,Mat Sharif Ismail,Illias Mohd. Khir 2011, *Manual teknologi sistem persekitaran terkawal rumah hijau bagi pengeluaran tomato dan cili*, Insititut Penyelidikan dan Kemajuan Pertanian Malaysia [ISBN: 9679365859]**
- **John Mason 2004, *Nursery Management*, 2 Ed., Landlinks Press [ISBN: 064309024X]**
- **Ted Goldammer 2017, *Greenhouse Management A Guide to Operations and Technology*, APEX Publishers [ISBN: 978-0-9675212]**
- **Pedro Ponce,Arturo Molina,Paul Cepeda,Esther Lugo,Brian MacCleery 2014, *Greenhouse Design and Control*, CRC Press [ISBN: 9781138026292]**

Article/Paper List: This Course does not have any article/paper resources

Other References: This Course does not have any other resources