国立嘉義大學 生物事業管理系(所) 99 學年度第 1 學期教學大綱

<table>
<thead>
<tr>
<th>課程名稱: Organic farming operations</th>
<th>學分數: 2</th>
<th>每週時數: 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>班 級: 生管大二</td>
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<tr>
<td>授課教師: An-Ching Hu</td>
<td>E-mail:</td>
<td><a href="mailto:anching@mail.ncyu.edu.tw">anching@mail.ncyu.edu.tw</a></td>
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<tr>
<td>暮談地點: D01－703 研究室</td>
<td>暮談時段: 星期四 08:10~12:00</td>
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一、Objectives:

This course begins with the concept of natural farming, organic agriculture around the world and the development of model rules and regulations began to guide students to understand the basic concepts of organic agriculture; then introduced in Taiwan to implement the current status of organic agriculture, organic agriculture and soil management, organic agriculture farming systems, organic agriculture, plant protection, organic production standards and marketing of agricultural products, certified organic agricultural products in Taiwan and regulations, the implementation of agricultural products such as record system.

The teaching method diversity, in addition to power point presentations in class, DVD movies, in-kind specimens explanation, the study also arranged for school visits, to organic farms, marketing and so on-site visit to enable students to organic farming operations knowledge.

三、Contents and schedule（Thursday，7~8）

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Subject / Section</th>
<th>Reading / Assignment</th>
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<tbody>
<tr>
<td>1</td>
<td>9/16</td>
<td>Course Introduction / Basic concepts of organic agriculture</td>
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<tr>
<td>2</td>
<td>9/23</td>
<td>Organic and vitality - natural farming philosophy</td>
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<td>3</td>
<td>9/30</td>
<td>Countries in the world of organic agriculture</td>
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<td>4</td>
<td>10/07</td>
<td>Development models and regulations</td>
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<tr>
<td>5</td>
<td>10/14</td>
<td>Taiwan’s implementation of the current status of organic agriculture</td>
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<td>6</td>
<td>10/21</td>
<td>Soil management, organic farming</td>
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<tr>
<td>7</td>
<td>10/28</td>
<td>Organic agriculture farming systems – crop rotation, intercropping, mulching, mulching, planting green manure</td>
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<td>8</td>
<td>11/04</td>
<td>Microbial use in organic agriculture</td>
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<td>Fruits and vegetables organic farming - ecological management of field</td>
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9  11/11  Midterm
Organic compost, raw food waste compost production and application
Organic farming and pest control strategies:
10  11/18
Cultural control, and physical control, biological control methods
Pest Control Method: parasitic wasps, predatory lacewings, catch plant mites, fluorescent bacteria, Penicillium
11  11/25
Siluo
Physical pest control: equipment, temperature, humidity, color, light, plus isolation, moth light, yellow sticky cards, insect net, bagging ... etc..
Natural Pesticides Control Act: sweet and sour
12  12/02
liquid, neem oil, tea seed meal, garlic juice or extract is made ... and so on.
Specification and marketing of organic agricultural products (certification and regulations)
13  12/09
Produce traceability system for the implementation of
14  12/16
Chinese student assessment:
Chinese 1. Midterm scores account 30%
Chinese 2. Final exam scores account 30%
Chinese 3. Peacetime achievements (including the report of a) 40%
五、Agriculture Bibliography:
（一）Chen Min, 1996, sustainable agriculture in the past • • now the future of agricultural science and information service center.
（二）http://www.asic.gov.twprinted/Sustainable agriculture/index.html
（三）Zhang Shan Wei, Huan Qing, 2007, clean fruit and vegetable cultivation, Chiayi City Community College Publications.
（四）Xieshun Jing, Xie Qingfang, 1989, organic agriculture, the Taichung District Agricultural Improvement Station.
（五）Lin Chun-yi, 2001, sustainable agriculture, the Chinese Association for Sustainable Agriculture.
（七）Lin Chun-yi, etc., 2002, crop farming, the Council of Agriculture Agricultural Research.
(八) Journal of Sustainable Agriculture Association, Council of Agriculture Agricultural Research Institute, 2001, the marketing strategy of organic agricultural products, special issue seminars.

(九) Of the association for the organic industry in Taiwan, the Taiwan Association for the Promotion of organic industry publication, Pitou Township, Changhua County.

(十) China Organic Agriculture Related Websites
http://ae-organic.ilantech.edu.tw/ (有機農業全球資訊網站)
http://ae-organic.ilantech.edu.tw/topa/ (台灣省有機農業生產協)
http://ae-organic.ilantech.edu.tw/toaf/ (慈心有機農業發展基金會)
http://www.coas.org.tw/ (中華民國有機農業產銷經營協會)

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