LIFS4360   Aquaculture Biotechnology
Course Outline -   Spring 2019

1. Instructor(s)
   Name: Prof. Joseph T.Y. WONG
   Contact Details: Room 5454 / Tel : 2358 7343 / Email : botin@ust.hk

2. Teaching Assistant(s)
   Name: 
   Contact Details: 

3. Meeting Time and Venue
   Lectures:
   Date/Time:   Wednesday (4:30pm – 5:50pm) and
               Friday (4:30pm – 5:50pm)
   Venue:   Room 6573 (Lift 29/30)

4. Course Description
   Credit Points: 3
   Pre-requisite: LIFS 2040 or LIFS 2060
   Exclusion: NIL
   Brief Information/synopsis:
   Overview of aquaculture in relation to food production and biotechnology. Examples of aquacultured species and aquaculture biotechnology enterprises. Aquaculture, biology and practices: larval rearing biotechnology, aquaculture nutrition, biotechnology of reproductive control in aquacultured species, applications of genetics and genetic manipulations in aquaculture. Problems and Perspectives. Pre requisite(s) : LIFS 2040 or LIFS 2060.
5. Intended Learning Outcomes
Upon successful completion of this course, students should be able to:

1. Introduction to aquaculture biotechnology.
2. Identify the roles of aquaculture biotechnology.
3. Search for scientific information and make critical presentations.
4. Application of scientific knowledge to practice.

6. Assessment Scheme

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<thead>
<tr>
<th>Assessment</th>
<th>Assessing Course ILOs</th>
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<tbody>
<tr>
<td>(Percentage + tasks)</td>
<td>(Respective course ILOs)</td>
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<tr>
<td>Project</td>
<td>1 - 4</td>
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<tr>
<td>Final Examination</td>
<td>1 - 3</td>
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7. Student Learning Resources – internet and library books

8. Teaching and Learning Activities -
   a. Lectures: aims to introduce the basics of aquaculture
   b. Research Project: focus on a specific aspect of aquaculture biotechnology

9. Course Schedule (temporary)
   • Introduction to Aquaculture : Global Perspectives
   • Aquacultural Systems
   • Reproductive Control in aquaculture
   • Aquaculture of Fish and Production Biology
   • Hatchery and Larval Feeding Biotechnology,
   • Aquaculture of Crustaceans and Production Biology
   • Applications of Genetics; Genetic Manipulations in Aquaculture
   • Aquaculture nutrition; Problems and Perspectives