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: Tuesday (9:00am – 10:20am) and Thursday (9:00am – 10:20am)
Venue: Room 2304 (Lift 17/18)

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. Prerequisite(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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<tr>
<th>Assessment</th>
<th>Assessing Course ILOs</th>
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<tr>
<td>(Percentage + assessment tasks)</td>
<td>(Respective course ILOs)</td>
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<td>Project</td>
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<td>Final Examination</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