A- Basic Information

Programme(s) on which the course is given:	MSc of Fish Biology and Aquatic Ecology
Depaetment responsible for offering the course:	Zoology
Depaetment responsible for teaching the course:	Zoology
Academic year:	2012-2013
Course title and code:	**Fish Population Dynamics Z686**
Contact hours (credit hours):	Lecture: 2 hrs Practical: Total: 2 hrs
Course coordinator:	Prof. Elsayed Khallaf

B- Professional Information

The course aim and intended learning outcomes are based on that mentioned in the programme specifications, with more course-related specific details.

1- **Overall Aims of Course: By the end of this course, the student should be able to**
   * Outline the concepts of fish population dynamics.
   * Identify the different fishery types.
   * Describe the concept of yield models: surplus production and dynamic pool models.
   * Apply yield models to describe the state of a fishery.
   * Recommend what is required to reach optimum fish production.

2- **Intended Learning Outcomes of Course (ILOs):**
   a- Knowledge and Understanding:
      a1- Describe the basic methods of fishery production.
      a2- Identify the different types of fisheries.
      a3- Outline the necessity of a sustainable yield.
      a4- Present the requirements for a successful fishery.

   b- Intellectual Skills:

b1- Classify the differences between freshwater and marine fish production requirements.
b2- Analyze the issues, like overfishing, that may arise in fish production.
b3- Calculate the surplus and dynamic pools yield prediction models.
b4- Connect between the various types of mortality and survival rates of a fished population.
b5- Recommend the necessary steps for restoring an overfished population.

c- Professional and Practical Skills:
c1- Use yield models to predict and recommend a state of a fishery.
c2- Deal with fish production of a specific aquatic habitat.
c3- Solve fishery problems.

d- General and Transferable Skills:
d1- Handle fish production problems.
d2- Lead a team to tackle the state of a fishery.
d3- Illustrate the management requirements of a successful fishery.

3- Teaching and Learning Methods
- Lectures.
- Quizzes assignment.
- Case essays.

4- Student Assessment Methods
- Written Exams.
- Oral exams
- Reports.

Assessment schedule

Assessment 1 Assignment report   Weekly

Assessment 2   Mid-term exams   Week 7

Assessment 3   Oral exams   Week 10

Assessment 4   Final term exams   Week 14

Weighting of assessments
Mid-term examination   20%
Final-term examination   40%

Oral examination	10%
Practical examination	20%
Semester work	10%
Total	100%

6- List of references

    1. Course Notes

        Related websites.

    2. Essential Books (Text books):

        Fish production

        Fish population

    3. Internet web sites.

7- Facilities required for teaching and learning

    * Data show.

    * Slide and over-head projector.

    * Librarian facilities.

    * Computers with internet Access**.**

Course coordinator: Prof. Dr. Elsayed Khallaf

Head of Department: Prof. Saber Sakr

Date: January / 2013