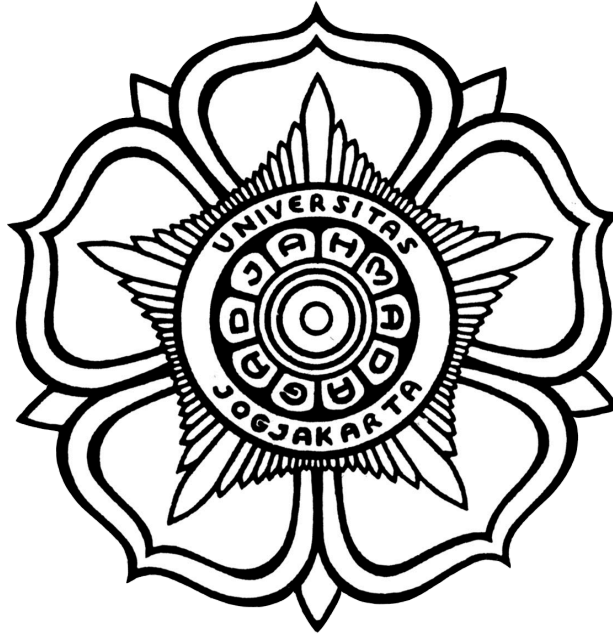


Module Handbook

**Design of Fishery Industries**



Composed by :  
Indun Dewi Puspita, S.P., M.Sc., Ph.D.

Master of Fisheries Science  
Faculty of Agriculture  
Universitas Gadjah Mada  
2023

## **Module Handbook: Design of Fishery Industries**

|                                           |                                                                                                                                                                                                                                                |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module designation                        | This course provides an introduction to the design and engineering of the fishing industry, which is related to production management and the operation of production systems involving people, materials, machinery and equipment as a whole. |
| Semester(s) in which the module is taught | 2                                                                                                                                                                                                                                              |
| Person responsible for the module         | Dr. Ir. Latif Sahubawa, M.Si.<br>Dr. R.A. Siti Ari Budhiyanti, S.T.P., M.P.                                                                                                                                                                    |
| Language                                  | Indonesian                                                                                                                                                                                                                                     |
| Relation to curriculum                    | Elective Course                                                                                                                                                                                                                                |
| Teaching methods                          | Activities:<br>a) Lecture (lecture and discussion)<br>b) Examinations<br>c) Take home assignments<br>d) Quiz<br>e) Student presentation                                                                                                        |

|                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Workload (incl. contact hours, self-study hours)              | <p>1. Lecture<br/> 2 SKS x 50 minutes x 16 meetings = 1,600 minutes<br/> = 26.67 hours<br/> = 26.67 hours/30 hours<br/> = 0.89 ECTS</p> <p>2. Structural Assignment<br/> 2 SKS x 60 minutes x 16 meetings = 1,920 minutes<br/> = 32.00 hours<br/> = 32.00 hours/30 hours<br/> = 1.07 ECTS</p> <p>3. Self Study<br/> 2 SKS x 60 minutes x 16 meetings = 1,920 minutes<br/> = 32.00 hours<br/> = 32.00 hours/30 hours<br/> = 1.07 ECTS</p> <p>Total Workload = 3.02 ECTS</p>                                                                                               |
| Credit points                                                 | 2 Credit points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Required and recommended prerequisites for joining the module | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Module objectives/intended learning outcomes                  | <p>Program Learning Outcomes:</p> <p>PLO-P1: Able to demonstrate theory and its application comprehensively in the fields of aquaculture, aquatic resource management, fish product technology</p> <p>PLO-KU2: Able to construct ideas derived from scientific principles, procedures, and ethics to address issues, and foster novel technologies in the area of fisheries and marine matters</p> <p>PLO-KK2: Able to implement management principles in fisheries and marine businesses which include planning, organizing, conducting, monitoring, and evaluating</p> |

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Content                            | <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Basic concepts of fisheries industry planning</li> <li>3. Strategic management of fisheries industry planning</li> <li>4. Theoretical and regulatory studies of fisheries industry planning</li> <li>5. Stages of fisheries industry planning</li> <li>6. Formulation of strategies in fisheries industry planning</li> <li>7. Midterm test/independent/group assignment</li> <li>8. The main factors of fisheries industry planning</li> <li>9. Human resource development in fisheries industry planning</li> <li>10. Feasibility analysis of fisheries industry planning</li> <li>11. General planning (Master Plan), input factors and fisheries industry layout</li> <li>12. Final exam/ independent/group assignment</li> </ol> |
| Examination forms                  | Powerpoint, Laptop, LCD, eLearning Platform such as eLOK, simaster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Study and examination requirements | The minimum of student attendance is 70% from total 14 meetings to be eligible to take the final exams                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reading list                       | <ol style="list-style-type: none"> <li>1. Dirdjojuwono, R. W., 2014. Kawasan Industri Indonesia. Sebuah Konsep Perencanaan dan Aplikasinya. Edisi Terbaru, Penerbit Biografika Bogor.</li> <li>2. Kabul, M., A.D. Guritno, W. Purwanto, 1999. Analisis Kelayakan Proyek Industri Pangan. Proyek Pengembangan Fasilitas Bersama Antar Universitas. Direktorat Jenderal Pendidikan Tinggi, Departemen Pendidikan dan Kebudayaan. PAU Pangan &amp; Gizi Universitas Gadjah Mada Yogyakarta.</li> <li>3. Kadarisman, M., 2013. Manajemen Pengembangan SDM, Cetakan ke-2. Divisi Buku Perguruan Tinggi. PT. Raja Grafindo Persada Jakarta.</li> <li>4. Solohin, I., 2012. Manajemen Strategik. Penerbit Erlangga, Percetakan PT. Gelora Aksama Pratama Jakarta.</li> <li>5. Sumber pustaka lainnya</li> </ol> |