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| **COURSE IDENTIFICATION FORM** |
| **Course Code and Name:**SM-549 Pigmentation in Fisheries | **Department of :**Fisheries M.Sc. |
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| **Semester** |

 | **Theoretic Hour** | **Practice Hour** | **Total Hour** | **Credits** | **ECTS** | **Education Language** | **Type: Compulsory Elective** |
|  | 3 | 0 | 3 | 3 | 5 | Turkish | Optional |
| **Prerequisite (s)** | None |
| **Instructor** | Prof. Dr. Durali DANABAŞ | **Mail : ddanabas@munzur.edu.tr****Web :** |
| **Course Assistant** |  | **Mail :****Web :** |
| **Groups / Classes** |  |  |
| **Course Aim** | The aim of this course is to provide learning of importance, existence and affectability of pigmentation in fisheries, and increasing of attractions of fish in aquaculture. |
| **Course Goals** | It will be explained importance, existence and affectability of pigmentation in fisheries, pigment kinds and cells structure, effects of pigments on pigmentation of especially fish, and however shrimps, crabs and others, carotene contents of planktonic organisms using in aquaculture and their effects on pigmentation of fish and effective components on pigmentation.  |
| **Course Learning Outs and Proficiencie*s*** | 1. He will be able to grip importance, existence and affectability of pigmentation in fisheries.  1.1. He knows importance of pigmentation in fisheries.  1.2. He comments existence and affectability of pigmentation. 2. He will be able to learn pigment kinds and cells structure. 2.1. He knows pigments.  2.2. He knows cells structure of pigments. 3. He will be able to learn effects of pigments on pigmentation of especially fish, and however shrimps, crabs and others. 3.1. He knows components effective on pigmentation.  3.2. He evaluates effects of pigmentation in marketing of fisheries. |
| **Course Basic and Auxiliary Contexts** | * Sarıhan, E., Cengizler, İ., 2006. Temel Balık Anatomisi ve Fizyolojisi, Adana Nobel Kitabevi Yayınları, Adana, 172s.
* Timur, M., 2006. Balık Fizyolojisi. Nobel Yayın Dağıtım, Nobel Yayın No: 957, Ankara, 183s.
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| **Methods of Give a Lecture** | Lecture, Question and answer, Discussion, Brain storming, Individual work |

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| **Assessment Criteria** |  | **If Available, to Sign (x)** | **General Average Percentage (%) Rate** |
| **1. Quiz** | **X** | **40** |
| **2. Quiz** |  |  |
| **3. Quiz** |  |  |
| **4. Quiz** |  |  |
| **5. Quiz** |  |  |
| **Oral Examination** |  |  |
| **Practice Examination (Laboratory, Project etc.)** |  |  |
| **Final Examination** | **X** | **60** |
| **Semester Course Plan** |
| **Week** | **Subjects** |
| **1** | 1. Week: Importance of pigmentation in fisheries, Definition of pigmentation and pigments,
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| **2** | 1. Week: Pigment kinds, Chlorophyls, Their properties,
 |
| **3** | 1. Week: Carotenoids, Their properties, Carotenoids sources,
 |
| **4** | 1. Week: Phycobilines, Their properties,
 |
| **5** | 1. Week: Functions of pigmentation in fisheries,
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| **6** | 1. Week: Pigment cells, Exist of pigmentation,
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| **7** | 1. Week: Hormonal mechanism in pigmentation, Environmental mechanism in pigmentation,
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| **8** | 1. Week: Vise,
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| **9** | 1. Week: Pigment sources and importance of pigmentation in aquaculture, Practicability of effecting methods of pigmentation,
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| **10** | 1. Week: Application methods on effecting of pigmentation,
 |
| **11** | 1. Week: Investigation and discussion of articles related to pigmentation sources and mechanism,
 |
| **12** | 1. Week: Fish species being important of pigmentation, Freshwater species, Sea species,
 |
| **13** | 1. Week: Crustaceans, Aquarium fish species,
 |
| **14** | 1. Week: Investigation and discussion of articles related to pigmentation application in fisheries,
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