

| <b>Course Description</b>   |  |  |                         |                           |             |
|---|--|--|-------------------------|---------------------------|-------------|
| <b>Name</b>   | <b>Code</b>  | <b>Semester</b>                          | <b>T+A Hour</b>         | <b>Credit</b>             | <b>ECTS</b> |
| ADIPOSE TISSUE  | HSED1214722  | Spring Semester                          | 2+2                     | 3                         | 6           |
| <b>Prerequisites Courses</b>                                      |  |  |                         |                           |             |
| <b>Recommended Elective Courses</b>                               |  |  |                         |                           |             |
| <b>Language of Instruction</b>                                    | Turkish  |  |                         |                           |             |
| <b>Course Level</b>   | Third Cycle (Doctorate Degree)   |  |                         |                           |             |
| <b>Course Type</b>  | Elective   |  |                         |                           |             |
| <b>Course Coordinator</b>   | Prof.Dr. İlknur KESKİN   |  |                         |                           |             |
| <b>Name of Lecturer(s)</b>  | Prof.Dr. İlknur KESKİN   |  |                         |                           |             |
| <b>Assistant(s)</b>   |  |  |                         |                           |             |
| <b>Aim</b>  | The aim of the course is to learn the basic cells of adipose tissue, adipose tissue types and their functions.   |  |                         |                           |             |
| <b>Course Content</b>   | This course contains; Introduction of adipose tissue ,Fat tissue types and functions,White adipose tissue histology,Brown adipose tissue histology,Fat tissue metabolism,Fat tissue development,Midterm,Adipose tissue mesenchymal cells-1,Adipose tissue mesenchymal cells-2,Fat tissue as filler,Fat tissue processing and stains-1,fat tissue processing and stains-2,Adipose tissue mesenchymal stem cell extraction application,Final exam. |  |                         |                           |             |
| <b>Course Learning Outcomes</b>                                   |  |  | <b>Teaching Methods</b> | <b>Assessment Methods</b> |             |
| Explains the types of adipose tissue and their functions.         |  |  | 14, 9                   | A                         |             |
| Explain the histology of white adipose tissue.                    |  |  | 14, 9                   | A, E                      |             |
| Explains brown adipose tissue histology.                          |  |  | 14, 9                   | A, E                      |             |
| Explains the adipose tissue mesenchymal cells.                    |  |  | 14, 9                   | A                         |             |
| Explains the adipose tissue processing protocol and dyes.         |  |  | 14, 9                   | A, E                      |             |
| Explains the derivation of adipose tissue mesenchymal stem cells. |  |  | 14, 9                   | A, E                      |             |
| Explains fat tissue metabolism.                                   |  |  | 14, 9                   | A                         |             |
| <b>Teaching Methods</b>   | 14: Self Study Method, 9: Lecture Method   |  |                         |                           |             |
| <b>Assessment Methods</b>   | A: Traditional Written Exam, E: Homework   |  |                         |                           |             |
| <b>Lecture Schedule</b>   |  |  |                         |                           |             |
| <b>Sequence</b>   | <b>Topics</b>  | <b>Preliminary Preparation</b>           |                         |                           |             |
| 1   | Introduction of adipose tissue   | Reading the relevant course presentation |                         |                           |             |
| 2   | Fat tissue types and functions   | Reading the relevant course presentation |                         |                           |             |
| 3   | White adipose tissue histology   | Reading the relevant course presentation |                         |                           |             |
| 4   | Brown adipose tissue histology   | Reading the relevant course presentation |                         |                           |             |
| 5   | Fat tissue metabolism  | Reading the relevant course presentation |                         |                           |             |
| 6   | Fat tissue development   | Reading the relevant course presentation |                         |                           |             |
| 7   | Midterm  | -  |                         |                           |             |
| 8   | Adipose tissue mesenchymal cells-1   | Reading the relevant course presentation |                         |                           |             |
| 9   | Adipose tissue mesenchymal cells-2   | Reading the relevant course presentation |                         |                           |             |
| 10  | Fat tissue as filler   | Reading the relevant course presentation |                         |                           |             |
| 11  | Fat tissue processing and stains-1   | Reading the relevant course presentation |                         |                           |             |
| 12  | fat tissue processing and stains-2   | Reading the relevant course presentation |                         |                           |             |
| 13  | Adipose tissue mesenchymal stem cell extraction application  | Reading the relevant course presentation |                         |                           |             |
| 14  | Final exam   | -  |                         |                           |             |
| <b>Evaluation Methods</b>   |  |  | <b>Weight(%)</b>        |                           |             |
| Midterm Exam  |  |  | 50                      |                           |             |
| General Exam  |  |  | 50                      |                           |             |

| <b>Resources</b> |
|------------------|
| Lecture notes    |