



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

|  |   |   |                      |  |   |                                |   |            |   |
|--|---|---|----------------------|--|---|--------------------------------|---|------------|---|
| Course Title                                     |   | Cellular Research Techniques in Vitro I   |                      |  |   |                                |   |            |   |
| Course Code                                      |   | TFZ525  |                      | Course Level                                 |   | Second Cycle (Master's Degree) |   |            |   |
| ECTS Credit                                      | 4 | Workload  | 104 ( <i>Hours</i> ) | Theory                                       | 1 | Practice                       | 2 | Laboratory | 0 |
| Objectives of the Course                         |   | Why cell culture? How should be designed the cell culture laboratory? Cell culture laboratory equipments and their use, aseptic methods, contamination, media preparation and primary cell culture methods. |                      |  |   |                                |   |            |   |
| Course Content                                   |   | Content of cell culture laboratory, cellular research methods, cell culture models  |                      |  |   |                                |   |            |   |
| Work Placement                                   |   | N/A   |                      |  |   |                                |   |            |   |
| Planned Learning Activities and Teaching Methods |   |   |                      | Explanation (Presentation), Individual Study |   |                                |   |            |   |
| Name of Lecturer(s)                              |   |   |                      |  |   |                                |   |            |   |

### Assessment Methods and Criteria

| Method              | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1        | 40             |
| Final Examination   | 1        | 60             |

### Recommended or Required Reading

|   |                           |
|---|---------------------------|
| 1 | Guyton, Tibbi Fizyoloji   |
| 2 | Vander, İnsan Fizyolojisi |

| Week | Weekly Detailed Course Contents |  |
|------|---------------------------------|--|
| 1    | Theoretical                     |  |
| 2    | Theoretical                     |  |
| 3    | Theoretical                     |  |
| 4    | Theoretical                     |  |
| 5    | Theoretical                     |  |
| 6    | Theoretical                     |  |
| 7    | Intermediate Exam               |  |
| 8    | Theoretical                     |  |
| 9    | Theoretical                     |  |
| 10   | Theoretical                     |  |
| 11   | Theoretical                     |  |
| 12   | Theoretical                     |  |
| 13   | Theoretical                     |  |
| 14   | Theoretical                     |  |
| 15   | Theoretical                     |  |
| 16   | Final Exam                      |  |

### Workload Calculation

| Activity                              | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory                      | 1        | 0           | 14       | 14             |
| Lecture - Practice                    | 1        | 14          | 14       | 28             |
| Assignment                            | 10       | 0           | 3        | 30             |
| Reading                               | 3        | 0           | 10       | 30             |
| Midterm Examination                   | 1        | 0           | 1        | 1              |
| Final Examination                     | 1        | 0           | 1        | 1              |
| Total Workload (Hours)                |          |             |          | 104            |
| [Total Workload (Hours) / 25*] = ECTS |          |             |          | 4              |

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

|   |  |
|---|--|
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |

**Programme Outcomes** (*Physiology (Medical) Master*)

|   |  |
|---|--|
| 1 | To be able to acquire a background needed for basic physiological research and having the ability to use the teoritical and practical knowledge in the field |
| 2 | To be able to prepare the article in the science of physiology   |
| 3 | To be able to present papers in the field of science of physiology   |
| 4 | To have professional ethics and responsibility   |
| 5 | To be able to reach a level to follow research in the field, to possess written and spoken communication skills and be able to join discussions              |

**Contribution of Learning Outcomes to Programme Outcomes** 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

|    | L1 | L2 | L3 | L4 | L5 |
|----|----|----|----|----|----|
| P1 | 5  | 4  | 4  | 4  | 5  |
| P2 | 4  | 3  | 5  | 5  | 5  |
| P3 | 4  | 4  | 5  | 4  | 5  |
| P4 | 5  | 4  | 4  | 5  | 4  |
| P5 | 3  | 5  | 5  | 4  | 5  |

