



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

| | | | | | | | | | |
|--|---|--|----------------------|----------------------------|---|--------------------------------|---|------------|---|
| Course Title | | Biological Principles of Cellular Therapy | | | | | | | |
| Course Code | | TIB620 | | Couse Level | | Third Cycle (Doctorate Degree) | | | |
| ECTS Credit | 5 | Workload | 125 (<i>Hours</i>) | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | | | | | | | | |
| Course Content | | | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation) | | | | | |
| Name of Lecturer(s) | | Prof. Mehtap KILIÇ EREN, Res. Assist. Bakiye GÖKER BAĞCA | | | | | | | |

Assessment Methods and Criteria

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

Recommended or Required Reading

| | |
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| 1 | 1. Molecular Cell Biology – Harvey Lodish, Arnold Berk, Chris A. Keiser, Monty Krieger, Anthony Bretscher, Hidde Ploegh, Angelika Amon, Mathew P. Scott - W. H. Freeman; Seventh Edition edition (May 2, 2012) |
| 2 | NCBI Pubmed ve güncel bilimsel yayınlar |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | What is cellular therapy |
| 2 | Theoretical | Basic mechanisms of gene and cellular therapies |
| 3 | Theoretical | New approaches to gene therapy |
| 4 | Theoretical | Cellular therapy methodologies and new technologies I |
| 5 | Theoretical | Cellular therapy methodologies and new technologies II |
| 6 | Theoretical | Examples to therapeutic strategies I |
| 7 | Theoretical | Examples to therapeutic strategies II |
| 8 | Intermediate Exam | Midterm Exam |
| 9 | Theoretical | Stem cell therapy |
| 10 | Theoretical | Gene therapy on hematopoietic systems |
| 11 | Theoretical | Cancer Gene therapy |
| 12 | Theoretical | Other cellular therapeutic examples |
| 13 | Theoretical | CNS therapy by immunized cells |
| 14 | Theoretical | Ethical issues of gene and cellular therapies |
| 15 | Final Exam | Midterm Exam |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 13 | 7 | 2 | 117 |
| Midterm Examination | 1 | 2 | 2 | 4 |
| Final Examination | 1 | 2 | 2 | 4 |
| Total Workload (Hours) | | | | 125 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 5 |

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

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



5

Programme Outcomes (*Medical Biology Doctorate*)

| | |
|---|--|
| 1 | To acquire fundamental knowledge on medical biology field |
| 2 | To gain expertise on molecular biology techniques |
| 3 | To utilize molecular biology techniques |
| 4 | To be able to construct and conduct a research project |
| 5 | To be able to follow and interpret scientific advancements |

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 | 5 | 4 | 4 | 3 |
| P2 | 1 | 2 | 4 | 4 | 5 |
| P3 | 1 | 1 | 2 | 2 | 3 |
| P4 | 3 | 3 | 3 | 3 | 4 |
| P5 | 4 | 4 | 4 | 4 | 5 |

