



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

|  |   |   |                      |  |   |                                |   |            |   |
|--|---|---|----------------------|--|---|--------------------------------|---|------------|---|
| Course Title                                     |   | Human Embryology II   |                      |  |   |                                |   |            |   |
| Course Code                                      |   | BiO635  |                      | Couse Level                            |   | Third Cycle (Doctorate Degree) |   |            |   |
| ECTS Credit                                      | 7 | Workload  | 181 ( <i>Hours</i> ) | Theory                                 | 3 | Practice                       | 0 | Laboratory | 0 |
| Objectives of the Course                         |   | Itaimstogiveinformationaboutfetalmembranesand plasenta, respiratory, circulatory, digestive, urogenitalsystemuntilbirth time andimprovement of endocrineorgans. |                      |  |   |                                |   |            |   |
| Course Content                                   |   | Itaimstogiveinformationaboutfetalmembranesand plasenta, respiratory, circulatory, digestive, urogenitalsystemuntilbirth time andimprovement of endocrineorgans. |                      |  |   |                                |   |            |   |
| Work Placement                                   |   | N/A   |                      |  |   |                                |   |            |   |
| Planned Learning Activities and Teaching Methods |   |   |                      | Explanation (Presentation), Discussion |   |                                |   |            |   |
| Name of Lecturer(s)                              |   |   |                      |  |   |                                |   |            |   |

### Assessment Methods and Criteria

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

### Recommended or Required Reading

|   |   |
|---|---|
| 1 | Sadler T.W.: Langman's Medical Embryology. 410 p., Williams and Wilkins, Baltimore, Maryland USA, 1990                          |
| 2 | Moore K., Persaud T.V.N., Shiota K. Color Atlas of Clinical Embryology. W.B. Saunders Company, 1994. ISSN 0-7216-4663-8         |
| 3 | Moore K., Persaud T.V.N. The Developing Human (Clinically Oriented Embryology). W.B. Saunders Company. ISBN 0-7216-4662-X. 1993 |
| 4 | Aytekin Y., Gürsoy E.: Renkli Embriyoloji Atlası (Çeviri), 2000. Elma basım, Nobel Tıp Kitabevleri dağıtım, ISSN 975-420-044-0  |

| Week | Weekly Detailed Course Contents |   |
|------|---------------------------------|---|
| 1    | Theoretical                     | Growth curve in fetal period, definition of pregnancy months, trimester.    |
| 2    | Theoretical                     | Fetal membranes; chorion and chorion villus.                                |
| 3    | Theoretical                     | Formation, structure and functions of placenta                              |
| 4    | Theoretical                     | Improvement of digestive system and organs connected with it.               |
| 5    | Theoretical                     | Improvement of digestive system and organs connected with it. -Continuation |
| 6    | Theoretical                     | Improvement of circulatory system organs                                    |
| 7    | Theoretical                     | Improvement of circulatory system organs                                    |
| 8    | Theoretical                     | Improvement of respiratory system organs                                    |
| 9    | Theoretical                     | Improvement of urinary system organs  |
| 10   | Theoretical                     | Improvement of male genital system organs                                   |
| 11   | Theoretical                     | Improvement of female genital system organs                                 |
| 12   | Theoretical                     | Improvement of nerve system organs  |
| 13   | Theoretical                     | Improvement of nervous system organs -Continuation                          |
| 14   | Final Exam                      | Final exam  |

### Workload Calculation

| Activity            | Quantity | Preparation | Duration | Total Workload |
|---------------------|----------|-------------|----------|----------------|
| Lecture - Theory    | 13       | 2           | 2        | 52             |
| Assignment          | 13       | 1           | 1        | 26             |
| Seminar             | 2        | 2           | 1        | 6              |
| Laboratory          | 13       | 2           | 2        | 52             |
| Reading             | 13       | 2           | 1        | 39             |
| Midterm Examination | 1        | 2           | 1        | 3              |



|   |   |   |   |     |
|---|---|---|---|-----|
| Final Examination                       | 1 | 2 | 1 | 3   |
| Total Workload (Hours)                  |   |   |   | 181 |
| [Total Workload (Hours) / 25*] = ECTS   |   |   |   | 7   |
| *25 hour workload is accepted as 1 ECTS |   |   |   |     |

### Learning Outcomes

|   |  |
|---|--|
| 1 | Knowing embryological development of the human body.   |
| 2 | Having general knowledge about histological structures of systems.                               |
| 3 | Knowing organization of cell and tissues and structural differences for the function of systems. |
| 4 | Knowing stage of usual development and its critical times.                                       |
| 5 | Knowing the reasons which will affect negatively the embryonic development                       |
| 6 | To distinguish the normal development from the abnormal development.                             |

### Programme Outcomes (Biology Doctorate)

|    |   |
|----|---|
| 1  | To have enough scientific background knowledge towards a specific study and research area   |
| 2  | To have an ability to identify, evaluate and develop a solution for a problem on biological aspects   |
| 3  | To be able to evaluate scientific observations and results of experiments using statistical analysis methods  |
| 4  | To have basic skills in areas related to field of biological studies  |
| 5  | To have the ability to develop cooperation with different disciplines with the high level of social communication required for studies  |
| 6  | To have knowledge of technology and use of methods and means used in biological researches  |
| 7  | To have an ethical understanding which will be a guide for their investigations and publications  |
| 8  | For PhD; to have European Language Portfolio C1 general level language skill  |
| 9  | To be able to present and discuss own research results in accordance with scientific discipline using technological tools in scientific research environments   |
| 10 | To be able to detect and evaluate economic and social impacts of an own original research results   |
| 11 | To be equipped with ability of carrying out independent study in biological field   |
| 12 | To be able to publish at least one an international/national peer reviewed scientific paper and/or produce or interpret an original work related to biology in order to expand the frontiers of knowledge |
| 13 | To be able to develop new approaches or adaptations to be used in solving scientific and biological problems  |
| 14 | To be able to develop new understanding and approaches in order to explain a new phenomenon or a biological event under investigation   |
| 15 | To have abilities and experience to create new search area through inspiration gained from subject searched   |

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

|     | L1 | L2 | L3 | L4 | L5 | L6 |
|-----|----|----|----|----|----|----|
| P2  |    | 5  | 5  |    |    | 4  |
| P3  | 5  | 5  | 5  | 5  | 5  |    |
| P5  |    |    |    | 4  | 5  |    |
| P8  | 5  |    | 5  | 5  | 4  | 5  |
| P10 | 5  |    | 5  | 5  | 5  | 5  |

