

# MEDICAL SCIENCES I

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| <b>1</b>  | Course Title:   | MEDICAL SCIENCES I  |
| <b>2</b>  | Course Code:  | TIP102  |
| <b>3</b>  | Type of Course:   | Compulsory  |
| <b>4</b>  | Level of Course:  | First Cycle   |
| <b>5</b>  | Year of Study:  | 1   |
| <b>6</b>  | Semester:   | 1   |
| <b>7</b>  | ECTS Credits Allocated:                                 | 27.00   |
| <b>8</b>  | Theoretical (hour/week):                                | 12.00   |
| <b>9</b>  | Practice (hour/week):                                   | 4.00  |
| <b>10</b> | Laboratory (hour/week):                                 | 0   |
| <b>11</b> | Prerequisites:  | None  |
| <b>12</b> | Language:   | Turkish   |
| <b>13</b> | Mode of Delivery:                                       | Face to face  |
| <b>14</b> | Course Coordinator:                                     | Doç. Dr. Engin Sağdılek   |
| <b>15</b> | Course Lecturers:                                       | Tıp Fakültesi Temel Bilimler Anabilim Dalı Öğretim Üyeleri  |
| <b>16</b> | Contact information of the Course Coordinator:          | E-mail: esagdilek@uludag.edu.tr<br>Tel: (0 224) 2954045<br>Bursa Uludağ Üniversitesi, Tıp fakültesi, Temel Tıp Bilimleri, Biyofizik Anabilim Dalı, 16059, Nilüfer, BURSA  |
| <b>17</b> | Website:  | <a href="http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1117160">http://bilgipaketi.uludag.edu.tr/Ders/IndexENG/1117160</a>   |
| <b>18</b> | Objective of the Course:                                | Understanding of the basic building blocks of the cell and cell formation, starting from the atomic and molecular level, with all organelles and general characteristics of bacteria, fungi, viruses and parasites and all processes of cell metabolism; Explaining the basic embryological, histological definition and terminology, as well as teaching the histological, physiological and biochemical properties of all epithelial connective and muscle tissue types of the body are aimed to ensure the transition from cell to organs and systems; Understanding the structures which are not belong to organ systems of the topographic parts of the body s aimed, including bone, muscles and joints, joint movements, respectively. Also, the anatomical, histological and physiological features, functions and development of the cardiovascular and respiratory system tissue and organs are taught. |
| <b>19</b> | Contribution of the Course to Professional Development: | Having basic knowledge of the human body as an introduction to the systems.   |
| <b>20</b> | Learning Outcomes:                                      |   |
|           | <b>1</b>  | Ability to define the structures of macromolecules in living organisms  |
|           | <b>2</b>  | Ability to explain the concepts of solution, acid-base and buffer systems   |
|           | <b>3</b>  | Ability to define the importance of intracellular and intercellular fluids and water for living organisms   |
|           | <b>4</b>  | Ability to describe the roles of biomolecules in chemical reactions in the cell; the synthesis, metabolic process and functions of related vitamins   |
|           | <b>5</b>  | To know the structural and functional properties of molecules that play a role in genetic information, interaction between molecules and the usage areas of these molecules in medicine   |

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|  | <b>6</b>  | To be able to describe the organs in fundamental systems of human body and their histological features of structures and embryological development.  |
|  | <b>7</b>  | To learn the basic concepts of human anatomy, to recognize the bones, joints and muscles in these regions, to comprehend their localizations and their functional relationships.   |
|  | <b>8</b>  | To know the structural features and development of organs related to cardiovascular system, to understand physiological and biochemical functioning mechanisms and to comprehend the purposes and fundamentals of clinical tests that can use their knowledge about these systems. |
|  | <b>9</b>  | To know the structural features and development of organs related to respiratory system, to understand physiological and biochemical functioning mechanisms and to comprehend the purposes and fundamentals of clinical tests that can use their knowledge about these systems.    |
|  | <b>10</b> | Knowing the basic rules and functioning in laboratory examinations   |

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| <b>21</b> | Course Content: |  |
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| <b>Course Content:</b> |  |  |
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| Week      | Theoretical   | Practice |
|-----------|---|----------|
| <b>1</b>  | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>2</b>  | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>3</b>  | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>4</b>  | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>5</b>  | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>6</b>  | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>7</b>  | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>8</b>  | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>9</b>  | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>10</b> | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>11</b> | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>12</b> | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>13</b> | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |
| <b>14</b> | <a href="http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari">http://tip.uludag.edu.tr/mezuniyet-oncesi-egitim-programlari</a> |          |

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| <b>22</b> | Textbooks, References and/or Other Materials: | Course Resources can be accessed at "ukey.uludag.edu.tr" |
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| <b>23</b> | Assesment |  |
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| TERM LEARNING ACTIVITIES | NUMBE R | WEIGHT |
|--------------------------|---------|--------|
| Midterm Exam             | 5       | 60.00  |
| Quiz                     | 0       | 0.00   |

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| Home work-project  | 0                             | 0.00   |
| Final Exam   | 1                             | 40.00  |
| Total  | 6                             | 100.00 |
| Contribution of Term (Year) Learning Activities to Success Grade | 60.00                         |        |
| Contribution of Final Exam to Success Grade                      | 40.00                         |        |
| Total  | 100.00                        |        |
| Measurement and Evaluation Techniques Used in the Course         | Multiple Choice Exam          |        |
| <b>24</b>  | <b>ECTS / WORK LOAD TABLE</b> |        |

| Activites                  | Number | Duration (hour) | Total Work Load (hour) |
|----------------------------|--------|-----------------|------------------------|
| Theoretical                | 14     | 12.00           | 168.00                 |
| Practicals/Labs            | 14     | 4.00            | 56.00                  |
| Self study and preperation | 0      | 0.00            | 0.00                   |
| Homeworks                  | 0      | 0.00            | 0.00                   |
| Projects                   | 0      | 0.00            | 0.00                   |
| Field Studies              | 0      | 0.00            | 0.00                   |
| Midterm exams              | 5      | 100.00          | 500.00                 |
| Others                     | 0      | 0.00            | 0.00                   |
| Final Exams                | 1      | 80.00           | 80.00                  |
| Total Work Load            |        |                 | 804.00                 |
| Total work load/ 30 hr     |        |                 | 26.80                  |
| ECTS Credit of the Course  |        |                 | 27.00                  |

| 25   | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |
|--|---|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
|  | PQ1   | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ10 | PQ11 | PQ12 | PQ13 | PQ14 | PQ15 | PQ16 |
| ÖK1  | 0   | 5   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| ÖK2  | 0   | 5   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| ÖK3  | 0   | 4   | 0   | 2   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| ÖK4  | 0   | 5   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 2    | 0    | 0    | 3    | 0    |
| ÖK5  | 0   | 5   | 0   | 2   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 2    | 0    | 0    | 3    | 0    |
| ÖK6  | 0   | 5   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| ÖK7  | 0   | 5   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| ÖK8  | 0   | 5   | 0   | 0   | 4   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| ÖK9  | 0   | 5   | 0   | 0   | 4   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| ÖK10   | 0   | 0   | 0   | 4   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <b>LO: Learning Objectives    PQ: Program Qualifications</b> |   |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |

|                            |                   |              |                 |               |                    |
|----------------------------|-------------------|--------------|-----------------|---------------|--------------------|
| <b>Contribution Level:</b> | <b>1 very low</b> | <b>2 low</b> | <b>3 Medium</b> | <b>4 High</b> | <b>5 Very High</b> |
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