

## DRUG RESISTANCE

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|-----------|---|---|---|
| <b>1</b>  | Course Title:   | DRUG RESISTANCE   |   |
| <b>2</b>  | Course Code:  | VPR 6021  |   |
| <b>3</b>  | Type of Course:   | Optional  |   |
| <b>4</b>  | Level of Course:  | Third Cycle   |   |
| <b>5</b>  | Year of Study:  | 1   |   |
| <b>6</b>  | Semester:   | 1   |   |
| <b>7</b>  | ECTS Credits Allocated:                                 | 5.00  |   |
| <b>8</b>  | Theoretical (hour/week):                                | 2.00  |   |
| <b>9</b>  | Practice (hour/week):                                   | 0.00  |   |
| <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:                                     | Prof. Dr. VELI YILGÖR ÇIRAK   |   |
| <b>15</b> | Course Lecturers:                                       |   |   |
| <b>16</b> | Contact information of the Course Coordinator:          | vcirak@uludag.edu.tr  |   |
| <b>17</b> | Website:  |   |   |
| <b>18</b> | Objective of the Course:                                | To educate skilled experts in antiparasitic resistance developed in parasites against various antiparasitic drugs |   |
| <b>19</b> | Contribution of the Course to Professional Development: | He/she learns facts about antiparasitic resistance and gains important knowledge on preventive measures.          |   |
| <b>20</b> | Learning Outcomes:                                      |   |   |
|           |   | 1   | Aniparasitic drugs used in different animal species; mode of action and application routes of these drugs |
|           |   | 2   | Antiparasitic resistance in parasites   |
|           |   | 3   |   |
|           |   | 4   |   |
|           |   | 5   |   |
|           |   | 6   |   |
|           |   | 7   |   |
|           |   | 8   |   |
|           |   | 9   |   |
|           |   | 10  |   |
| <b>21</b> | Course Content:   |   |   |
|           |   | <b>Course Content:</b>  |   |
| Week      | Theoretical   | Practice  |   |
| 1         | Introduction to antiparasitic drugs                     |   |   |
| 2         | Classification of antiparasitic drugs                   |   |   |
| 3         | Anthelmintics and anthelmintic groups                   |   |   |
| 4         | Mode of action of anthelmintics                         |   |   |
| 5         | Application methods of anthelmintics                    |   |   |
| 6         | Antiprotozoals and antiprotozoal groups                 |   |   |
| 7         | Mode of action of antiprotozoals                        |   |   |

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| <b>8</b>   | Application methods of antiprozoals                |   |
| <b>9</b>   | Insecticides and acaricides                        |   |
| <b>10</b>  | Mode of action of insecticides and acaricides      |   |
| <b>11</b>  | Application methods of insecticides and acaricides |   |
| <b>12</b>  | Anthelmintic resistance                            |   |
| <b>13</b>  | Antiprotozoal resistance                           |   |
| <b>14</b>  | Resistance against insecticides and acaricides     |   |
| <b>22</b>  | Textbooks, References and/or Other Materials:      | Veterinary Parasitology. Taylor, Coop, Wall; Blackwell (2007) |
| <b>23</b>  | Assesment  |   |
| <b>TERM LEARNING ACTIVITIES</b>                                  |  |   |
|  | <b>NUMBE R</b>                                     | <b>WEIGHT</b>   |
| Midterm Exam   | 0  | 0.00  |
| Quiz   | 0  | 0.00  |
| Home work-project  | 2  | 30.00   |
| Final Exam   | 1  | 70.00   |
| Total  | 3  | 100.00  |
| Contribution of Term (Year) Learning Activities to Success Grade |  | 30.00   |
| Contribution of Final Exam to Success Grade                      |  | 70.00   |
| Total  |  | 100.00  |
| Measurement and Evaluation Techniques Used in the Course         |  | By means of examinations and homeworks                        |
| <b>24</b>  | <b>ECTS / WORK LOAD TABLE</b>                      |   |

| Activites                  | Number | Duration (hour) | Total Work Load (hour) |
|----------------------------|--------|-----------------|------------------------|
| Theoretical                | 14     | 2.00            | 28.00                  |
| Practicals/Labs            | 0      | 0.00            | 0.00                   |
| Self study and preperation | 14     | 2.00            | 28.00                  |
| Homeworks                  | 14     | 4.00            | 56.00                  |
| Projects                   | 3      | 6.00            | 18.00                  |
| Field Studies              | 0      | 0.00            | 0.00                   |
| Midterm exams              | 0      | 0.00            | 0.00                   |
| Others                     | 0      | 0.00            | 0.00                   |
| Final Exams                | 1      | 20.00           | 20.00                  |
| Total Work Load            |        |                 | 150.00                 |
| Total work load/ 30 hr     |        |                 | 5.00                   |
| ECTS Credit of the Course  |        |                 | 5.00                   |

|            |  |            |            |            |            |            |            |            |            |             |             |             |             |             |             |             |
|------------|--|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>25</b>  | <b>CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS</b> |            |            |            |            |            |            |            |            |             |             |             |             |             |             |             |
|            | <b>PQ1</b>   | <b>PQ2</b> | <b>PQ3</b> | <b>PQ4</b> | <b>PQ5</b> | <b>PQ6</b> | <b>PQ7</b> | <b>PQ8</b> | <b>PQ9</b> | <b>PQ10</b> | <b>PQ11</b> | <b>PQ12</b> | <b>PQ13</b> | <b>PQ14</b> | <b>PQ15</b> | <b>PQ16</b> |
| <b>ÖK1</b> | 4  | 3          | 3          | 4          | 1          | 3          | 4          | 4          | 2          | 3           | 3           | 4           | 0           | 0           | 0           | 0           |

|  |                   |   |              |   |   |                 |   |   |               |   |   |                    |   |   |   |   |
|--|-------------------|---|--------------|---|---|-----------------|---|---|---------------|---|---|--------------------|---|---|---|---|
| <b>ÖK2</b>   | 4                 | 4 | 4            | 3 | 1 | 2               | 3 | 4 | 3             | 3 | 4 | 2                  | 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> |   |   |   |   |