# DEPARTMENT OF MOLECULAR BIOTECHNOLOGY
# COURSE SYLLABUS

| Course Details | | | | |
|---|---|---|---|---|
| **Code** | **Academic Year** | | | **Semester** |
| MBT442 | 4 | | | 8 |
| **Title** | **T** | **A** | **L** | **ECTS** |
| Project II (Bachelor Thesis) | 0 | 6 | 0 | 12 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Language** | German | | | | | |
| **Level** | **Undergraduate** | **X** | **Graduate** | | **Postgraduate** | |
| **Department / Program** | Molecular Biotechnology | | | | | |
| **Forms of Teaching and Learning** | Face to face | | | | | |
| **Course Type** | **Compulsory** | **X** | **Elective** | | | |
| **Objectives** | To provide the student with the ability to analyze the problem/system with which he/she is dealing and to develop solution ideas considering theoretical knowledge. To provide a useful experience through a self study to take the first step to his/her new career which will start after graduation. The student will communicate his/her study efficiently, verbal and written, so he/she will learn to express himself/herself better. | | | | | |
| **Content** | I. To provide the student with the ability to analyze the problem/system with which he/she is dealing and to develop solution ideas considering theoretical knowledge.<br>II. To provide a useful experience through a self study to take the first step to his/her new career which will start after graduation.<br>III. The student will communicate his/her study efficiently, verbal and written, so he/she will learn to express himself/herself better. | | | | | |
| **Prerequisites** | MBT441 | | | | | |
| **Coordinator** | Doç. Dr. Orkide Coşkuner Weber | | | | | |
| **Lecturer(s)** | | | | | | |
| **Assistant(s)** | | | | | | |
| **Work Placement** | No | | | | | |

| Recommended or Required Reading | |
|---|---|
| **Books / Lecture Notes** | Scientific Journals and Books related to the field will be disseminated to the students in digital form. |
| **Other Sources** | |

| Additional Course Material | |
|---|---|
| **Documents** | |
| **Assignments** | |
| **Exams** | |

| Course Composition | | |
|---|---|---|
| **Mathematics und Basic Sciences** | | % |

**DEPARTMENT OF MOLECULAR BIOTECHNOLOGY**
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| | | |
|---|---|---|
| **Engineering** | | 40% |
| **Engineering Design** | | 40% |
| **Social Sciences** | | % |
| **Educational Sciences** | | % |
| **Natural Sciences** | | % |
| **Health Sciences** | | % |
| **Expert Knowledge** | | 20% |

**Assessment**

| Activity | Count | Percentage (%) |
|---|---|---|
| **Midterm Exam** | | |
| **Quiz** | | |
| **Assignments** | | |
| **Attendance** | | |
| **Recitations** | | |
| **Projects** | 1 | 100 |
| **Final Exam** | | |
| | **Total** | **100** |

**ECTS Points and Work Load**

| Activity | Count | Duration | Work Load (Hours) |
|---|---|---|---|
| **Lectures** | 14 | 4 | 56 |
| **Self-Study** | 14 | 16 | 224 |
| **Assignments** | | | |
| **Presentation / Seminar Preparation** | 1 | 35 | 35 |
| **Midterm Exam** | | | |
| **Recitations** | | | |
| **Laboratory** | | | |
| **Projects** | | | |
| **Final Exam** | 1 | 40 | 40 |
| | | **Total Work Load** | **355** |
| | | **ECTS Points** (Total Work Load / Hours) | **12** |

**Learning Outcomes**

| | |
|---|---|
| **1** | Formulate and analyze a problem by examining the current status. |
| **2** | Develop applicable suggestions and/or solution methods for the problem dealt with, considering theoretical knowledge. |
| **3** | Gain the ability to implement a solution method to an existing problem and will be able to evaluate the results. |

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| | |
|---|---|
| **4** | Learn to express himself/herself by reporting and presenting the work. |
| **5** | Learn to defend the idea that underlines the results of the study. |
| **Weekly Content** | |
| **1** | |
| **2** | |
| **3** | |
| **4** | |
| **5** | |
| **6** | |
| **7** | |
| **8** | |
| **9** | |
| **10** | |
| **11** | |
| **12** | |
| **13** | |
| **14** | |
| **15** | |

**Contribution of Learning Outcomes to Program Objectives (1-5)**

| | P1 | P2 | P3 | P4 | P5 | P6 | P7 |
|---|---|---|---|---|---|---|---|
| **1** | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| **2** | | | | | | | |

| | |
|---|---|
| **Contribution Level** | 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High |

P01 Working with modern scientific sources.
P02 Having modern scientific knowledge and scientific analysis abilities and being able to apply them to scientific problems.
P03 Having theoretical and practical skills in the area of biotechnology.
P04 Having foreign language skills to follow the worldwide advancements in the field of biotechnology and to be able to discuss them with foreign collegues.
P05 Having computational skills for research data analysis purposes.
P06 Having appropriate skills for academic and industrial jobs, being ready to take responsibility in working life.
P07 Having knowledge about work occupational work and safety.

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| **Compiled by:** | |
| **Date of Compilation:** | 01.03.2021 |