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| **Code and Name:** | **FİZ5570 PHYSICS OF ORGANIC SEMICONDUCTORS** |
| **Unit:** | Graduate School of Natural and Applied Sciences |
| **Detail:** | **Period:** 2023-2024 **Status:** Optional **Class:** 1 **Credits:** 3-0-0-3 **ECTS:** 6 **Language:** Turkish |

| INSTRUCTOR | |
|---|---|
| Title, Name and Surname: | |
| Phone: | |
| Email: | |
| Social Account: | |
| Student Day and Time: | |

| COURSE ASSISTANT | |
|---|---|
| Title, Name and Surname: | ..... |
| Phone: | ..... |
| Email: | ..... |
| Social Account: | ..... |
| Student Day and Time: | ..... |

| Lessons Weekly Program: | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|
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| **Rendering:** | **It will be held as a Weekly 3 Lesson Hour Face to Face.** |
| **Place:** | **YY:** Faculty of Science, Department of Physics **UE:** |
| **Purpose:** | **Creating circuit elements from organic materials.** |
| **Material:** | **Physics of Organic Semiconductors Textbook and lecture notes.** |
| **Student Responsibility :** | |

**Weekly Lesson Plan**

| Week | Topic | Method |
|---|---|---|
| 1 | Introduction to the physics of organic semiconductors , Basic comprehension m l are | YY |
| 2 | Organic ingredients | YY |
| 3 | Electronic properties of interfaces between Organic Semiconductor Materials and Metals | YY |
| 4 | Electronic properties of interfaces between Organic Semiconductor Materials and Metals | YY |
| 5 | Electrical Conductivity Mechanism in Organic Semiconductors | YY |
| 6 | Optical Properties of Organic Semiconductors | YY |
| 7 | Organic Thin Film Transistors | YY |
| 8 | VISA | YY |
| 9 | Organic Thin Film Transistors | YY |
| 10 | Organic Light Emitting Diodes | YY |
| 11 | Organic Light Emitting Diodes | YY |
| 12 | Organic Solar Photopiles | YY |
| 13 | Other electronic circuit elements made with organic semiconductors | YY |
| 14 | General review and achievement evaluation | YY |

**Assessment and Evaluation**

| | Method | | Number | Weight |
|---|---|---|---|---|
| Break Exam | Exam | Face to Face | 1 | % 50 |
| | Quiz | It will not be done. | - | |
| | Homework | Activities will be given before and after the midterm exam. | 2 | |
| | Project | It will not be issued. | - | - |
| | | | | |
| General Exam | Yüz Yüze | | 1 | % 50 |

**Course Outcomes:**

| | |
|---|---|
| 1 | Comparing the use of organic and inorganic materials in electronics |
| 2 | Course content and formulas, equations related to the subject and learning the gains of proof . |
| 3 | The achievements obtained in scientific studies Learning the applicability of . |
| 4 | Organic materials e Electronics Applicability and understanding its usability . |
| 5 | Remembering and comprehending electronic circuit elements |

**Course-Specific Explanations:**

**UE: Distance** Education; **YY:** Face-to-Face Education