| Nume: Unit: Gra Detail: Pe Title, Name and S | aduate So eriod: 2 I Surname | chool of Natu 2023-2024 NSTRUCTO | ral and Applie Status: | | | | | | | | | | | | | |
|--|---------------------------------------|--|---|-------------|------------------|------------------------------------|----------------|-----------------|---------|-----------------|--|--|--|--|--|--|
| Unit: Gra Detail: Pe | eriod: 2 I Surname Phone | 2023-2024 NSTRUCTO | Status: | | | IZ5630 RADIATION PHYSICS | | | | | | | | | | |
| Title, Name and S | I Surname Phone | NSTRUCTO | | optional | Class: 1 | Credits: 3-0-0-3 | ECTS: 6 | Language: | Turkish | | | | | | | |
| | Surname Phone | | | | | | | | Turkish | | | | | | | |
| | | | R | | | Րitle, Name and Surna | COURSE AS | 515 I AN I | | | | | | | | |
| | Emai | Phone: | | | | | one: | | | | | | | | | |
| | | | | | | | ail: | | | | | | | | | |
| Social Student Day a | Account | | | | | Social Accou Student Day and Ti | | | | | | | | | | |
| - | | | | | | | | | - | | | | | | | |
| Lessons Mon Week <u>l</u> y | | day | Tuesday | 1 | Wednesday | Thursday | Fride | ay | Satu | ·day | | | | | | |
| Program: | | | | | | - | | | | | | | | | | |
| - | Face-to- | face lessons per week 3 It will be done on an hourly basis. UE: | | | | | | | | | | | | | | |
| | | g the propert | ties and protec | tion metho | | , which is widely used i | n our daily li | fe. | | | | | | | | |
| | | | Protection , | | | , | a duriy ii | | | | | | | | | |
| Student | I Hybreb | | , in the second s | Junico El M | | | | | | | | | | | | |
| | Lesson | To be prese | nt at the exam | s, to submi | t assignments o | on time and to take exa | ms | | | | | | | | | |
| | Week | Topic | | | | | | | | Method | | | | | | |
| | 1 | Forces in A | Atoms and Ei | nergy , Bi | nding Energy | | | | | YY | | | | | | |
| | 2 | Important Discoveries and Interactions in Radiation Physics | | | | | | | | YY | | | | | | |
| - | 3 | Radiation and Types of Radiation | | | | | | | YY | | | | | | | |
| Weekly Lesson Plan | 4 | Biological Effects of Ionizing and Non-Ionizing Radiation | | | | | | | | YY | | | | | | |
| | 5 6 | Half-Life Nuclear Energy | | | | | | | | YY YY | | | | | | |
| | 7 | Nuclear Fission and Products | | | | | | | | YY | | | | | | |
| | 8 | Interaction of Radiation with Matter | | | | | | | | YY | | | | | | |
| | 9 | Radiation Shielding | | | | | | | | YY | | | | | | |
| | 10 | Determination of Properties of Gamma Radiation Absorbers | | | | | | | YY | | | | | | | |
| | 11 | Neutron Sources | | | | | | | YY | | | | | | | |
| | 12 | Neutron Shielding Materials | | | | | | | | YY | | | | | | |
| | 13 14 | | | | | | | | | <u>YY</u> YY | | | | | | |
| | 14 | Changes of | Method | ioys Again. | St Naulation | | | | lumber | Weight | | | | | | |
| | | Exam | Face | | | | | | 1 | %50 | | | | | | |
| | D | Quiz | - | | | | | | - | | | | | | | |
| Assessment and | Break Exam | Homework | - | | | | | | | | | | | | | |
| Evaluation | LAUII | Project | - | | | | | | - | - | | | | | | |
| | eneral Exam | Face | | | | | | | 1 | %50 | | | | | | |
| | 1 | Student ' | Types of radia | tion and | learns its behav | vior | | | | | | | | | | |
| 6- | 2 | Learns the interaction of radiation with matter and methods of protection | | | | | | | | | | | | | | |
| Course Outcomes: | 3 | Learn the basic physics concepts that are important in radiation shielding | | | | | | | | | | | | | | |
| | 4 | Have an id | ea about the p | roduction o | of alternative m | naterials to the materia | ls used in rad | liation shieldi | ng | | | | | | | |
| | 5 | | | | | | | | | | | | | | | |
| Course-Specific | | | | | | | | | | | | | | | | |
| UE: Distance Edu | ucation; | ; YY: Face-to | o-Face Educa | ition | | | | | | | | | | | | |

| UNIVE | ТС | Document No | Естм - 0001 |
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| | EID AT LINIVED OFFY | Publication Date | 13.09.2021 |
| | FIRAT UNIVERSITY | Revision Date | - |
| | Course Syllabus Form | Revision No | 0 |