| 1975 | ASIT | | | T.C. Firat University Course Syllabus Form | | | | | | | Document NoIPublication Date1Revision Date-Revision No0 | | атм – 0001 3.09.2021 |
|--|---|---|-------------------------|---|--------------------------|-------|--------------------------------|--|--|---------|---|-----------|-------------------------|
| Code and Name: Unit: G | FİZ5300 ADVANCED THERMODYNAMICS Graduate School of Natural and Applied Sciences Period: 2023-2024 Status: Optional Class: 1 Credite: 2.0.0.2 ECTS: 6 Language | | | | | | | | | | Languag | y Turkick | |
| Detuii. | Period: 4 | 2023-2024 | Status: | Optional | Class: | T | credits: | 3-0-0-3 | EUI | 3: 0 | Language | | 1 |
| Title, Name and Soci Student Day | d Surnam Phon Emai al Accoun 7 and Tim | INSTRUCTO e: e: il: il: it: e: | R | | | | fitle, Name So Student I | and Surna Pho En ocial Acco Day and Ti | COUR ame: one: nail: punt: ime: | SE AS: | SİSTANT | | |
| Lessons Weekly Program: | Monday Tuesa | | | ay Wednesday | | | Thursday Fride | | | ay Satu | | rday | |
| Rendering: Place: | YY: Faculty of Science, Department of Physics EU: | | | | | | | | | | | | |
| Purpose: | kavratılı | ması | , mermou | iy numres r | lunininuu go | ciici | | in ve teri | mouni | anngin | uygululli | Junului | |
| Material: | Sears | and Zeman | s <mark>ky 's</mark> Uı | niversity F | <mark>hysics, H.D</mark> |). Yo | oung, R.A. Fi | reedman, | , Pears | on-Ado | lison Wes | ley, 2008 | |
| Student Responsibility : | | | | | | | | | | | | | |
| Weekly Lesson Plan | Week | k Topic | | | | | | | | Method | | | |
| | 1 | Heat & Temperature | | | | | | | | YY | | | |
| | 2 | Heat Transfer Mechanisms | | | | | | | | YY | | | |
| | 3 | Calorimetry and Phase Transformations | | | | | | | | YY | | | |
| | 4 | Inermal properties of the substance | | | | | | | | YY | | | |
| | 5 | Heat Canacity | | | | | | | | | | | |
| | 7 | Thermal Equilibrium and the Zeroth Law of Thermodynamics | | | | | | | | | VV | | |
| | 8 | MIDTERM EXAM | | | | | | | | YY | | | |
| | 9 | I. Law of Thermodynamics | | | | | | | | YY | | | |
| | 10 | Second Law of Thermodynamics | | | | | | | | YY | | | |
| | 11 | III. Law of Thermodynamics | | | | | | | | YY | | | |
| | 12 | Methods Used to Determine Thermal Properties (1. Part) | | | | | | | | | | YY | |
| | 13 | Methods Used to Determine Thermal Properties (2. Part) | | | | | | | | | | | YY |
| | 14 | Isothermal and Non-Isothermal Kinetics (General Information) | | | | | | | | | | YY | |
| Assessment and Evaluation | | | Method | | | | | | | | | Number | Weight |
| | | Exam | YY | | | _ | | | | | | 1 | % 50 |
| | Break Exam | Quiz | | | | | | | | | | - | |
| | | Homework | | | | | | | | | | | |
| | | Project | | | | | | | | | | - | - |
| | General Exam | YY | | | | | | | | | | 1 | % 50 |
| Course Outcomes: | 1 | Thermodynamics Obtaining general information about the concept | | | | | | | | | | | |
| | 2 | Recognizing the unbreakable link between Thermodynamics and Physics | | | | | | | | | | | |
| | 3 | Application areas of thermodynamics and learn its importance in material characterization | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | |
| Course-Specifi | c Explan | nations: | | | | | | | | | | | |
| UE: Distance E | ducation | ; YY: Face-t | o-Face Educa | tion | | | | | | | | | |